

HD VIDEO SWITCHER

V-8HD

Version 2.0 and late

Reference Manual



Panel Descriptions	2
Top Panel / Side Panel	2
Rear Panel (Connecting Your Equipment)	4
Multi-View Monitor Display	6
Turning the Power On/Off	7
Using the Menus	7
Video Input/Output Settings	8
Setting the Video Input/Output Format	8
Adjusting Output Video	9
Adjusting the Input Video	9
Changing Video Bus Assignments	10
Inputting Copy-Protected (HDCP) Video	10
Video Operations	11
Switching the Video	11
Compositing Video with Split (SPLIT)	17
Using a Visual Effect (VFX)	18
Compositing Video with Picture-in-Picture (PinP)	19
Compositing Video with Downstream Keyer (DSK)	22
Using Imported Still Images	29
Saving a Still Image to a USB Flash Drive	31
Freezing Input Video (Freeze)	32
Applying a Fade to the Output Video (Output Fade)	33
Audio Operations	34
Adjusting the Volume Level	34
Applying Effects to Input Audio	35
Applying Effects to Output Audio	36
Interlinking Audio Output to Video Switching	
(Audio Follow)	37
Outputting AUX-bus Audio	38
Silencing Only Specific Audio (Mute)	39
Checking a Specific Audio Input (Solo)	40
Other Features	41
Saving/Recalling Settings (Preset Memory)	41
Recording Multiple Operations to Automatically Execute	
(Macros)	46
Combining Preset Memories and Macros for Operations	
(Sequencer)	53

Saving the Unit's Settings on a USB Flash Drive	59
Formatting USB Flash Drives	60
Using a Footswitch	61
Using an Expression Pedal	62
Assigning the Functions of the USER [1] [2] Buttons	63
Preventing Unintended Operation (Panel Lock)	63
Controlling an External Recorder's Video Record Start/Stop	
from the V-8HD	64
Returning to the Factory Settings (Factory Reset)	64
Menu List	65
1: VIDEO INPUT	65
2: VIDEO OUTPUT	66
3: TRANSITION TIME	67
4: MIX/WIPE	67
5: SPLIT/VFX	68
6: PinP	71
7: DSK	74
8: AUDIO INPUT	75
9: AUDIO OUTPUT	76
10: AUDIO FOLLOW	77
11: PRESET MEMORY	78
12: MACRO	79
13: SEQUENCER	80
14: STILL IMAGE	81
15: FREEZE	81
16: AUTO SWITCHING	82
17: CTL/EXP	83
18: USB MEMORY	84
19: SYSTEM	85
List of Shortcut Keys	88
Appendix	89
Troubleshooting	89
Main Specifications	90
Dimensions	92
MIDI Implementation	93
MIDI Implementation Chart	108
VIDEO Block Diagram	109
AUDIO Block Diagram	110

Panel Descriptions

Top Panel / Side Panel



Nam	ie	Explanation	
•	[OUTDIT FADE] Im also	The program output video and audio fade in/out. Turning the knob toward the left fades the output to black, and turning the knob toward the right fades the output to white.	
U	[OUTPUT FADE] knob	Lit	Fade-out completed
		Blink	Fading in/out
		Unlit	Normal output
	[CARTURE IMAGE]		
2	[CAPTURE IMAGE] button	Captures a still image from the input/output video	

3 USER		
	Execute the functions that are assigned by the menu settings. With the factory settings, the following functions are assigned.	
[1], [2] buttons	[1]	FREEZE: Stops (freezes) input video.
	[2]	AUTO SWITCHING: Automatically switches the input video.

4 DSK		
[LEVEL] knob	During DSK compositing, this adjusts the amount of keying (transparency).	
[GAIN] knob	During DSK compositing, this adjusts the degree of edge blur (the semi-transmissive region) for keying.	
[PVW] button	When this is on (lit), it makes the DSK compositing results the preview output.	
	Switches DSK composition on or off.	
[ON] button	Lit	DSK composition on
	Blink	Currently switching video
	Unlit	DSK composition off
	1	

Name	Explana	Explanation		
5 PinP 1				
[POSITION H] knob		During PinP 1 compositing, this adjusts the horizontal display position of the inset screen.		
[POSITION V] knob		During PinP 1 compositing, this adjusts the vertical display position of the inset screen.		
[PVW] button		When this is on (lit), it makes the PinP 1 compositing results the preview output.		
	Switches	Switches PinP 1 composition on or off.		
[ON] button	Lit	PinP 1 composition on		
	Blink	Currently switching video		
	Unlit	DSK composition off		

6 PinP 2		
[POSITION H] knob	During PinP 2 compositing, this adjusts the horizontal display position of the inset screen.	
[POSITION V] knob	During PinP 2 compositing, this adjusts the vertical display position of the inset screen.	
[PVW] button	When this is on (lit), it makes the PinP 2 compositing results the preview output.	
	Switches PinP 2 composition on or off.	
	Lit	PinP 2 composition on
[ON] button	Blink	Currently switching video
	Unlit	DSK composition off

7 MODE				
	SOURCE / MEN The lit color of	Switches the functioning of the AUX / PinP SOURCE / MEMORY [1]–[8] buttons. The lit color of the button indicates the function that is selected.		
[MODE] button		Green	AUX	
[MODE] Button	Pressing	Yellow	PinP 1 SOURCE	
	riessing	Magenta	PinP 2 SOURCE	
		Blue	MEMORY	
	Long-pressing	Orange	MACRO	

Name	Explanation	
8 AUX / PinP SOURCE / MEMORY		
[1]-[8] buttons	function selected The selected The respecti	oject of operation according to the ected by the [MODE] button. I button lights up. we buttons also function as indicators input status of the video. Valid video is being input.
	Blink white	Video whose format differs from the system format setting is input.
	Unlit	No video is input.

[MODE] button	Explanation
AUX	The buttons function as AUX-bus selection buttons.
AUX	They select the video (channel 1–8) to send to the AUX bus.
	The buttons function as source screen select buttons for PinP 1.
PinP 1 SOURCE	The buttons select the video (channels 1–8) that is shown in the inset screen of PinP 1.
	The buttons function as source screen select buttons for PinP 2.
PinP 2 SOURCE	The buttons select the video (channels 1–8) that is shown in the inset screen of PinP 2.
	The buttons function as preset-memory selection buttons.
MEMORY	These save video and audio settings, the state of the operation panel, and other current settings, and call up settings saved in memory.
	Press this button to recall settings; long-press this button to save settings.
MACRO	The buttons function as macro selection buttons.
MACRO	Executes a macro (a series of recorded operations).

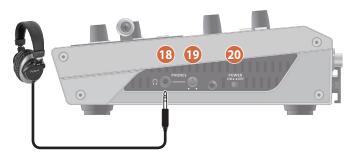
9 SPLIT / VFX A, SPLIT / VFX B		
SPLIT/VFX [A] knob Adjust the depth of the effect when split/vis effect A is on.		
SPLIT/VFX [B] knob Adjust the depth of the effect when split/v effect B is on.		
* By holding down the SPLIT/VFX button and turning the SPLIT/VFX knob, you can change the type of split/visual effect.		
SPLIT/VFX [A] button If this is on (lit), the effect of split/visual effect applied to the video selected by the Cross-po A [1]–[8] buttons.		
SPLIT/VFX [B] button If this is on (lit), the effect of split/visual effe applied to the video selected by the Cross-FB [1]–[8] buttons.		

 $^{^{\}ast}\,$ If the SPLIT/VFX type is set to split, it is not possible to turn both A and B on.

10 A/PGM, B/PST		
Cross-point A [1]–[8] buttons	Selects the video to input to bus A of the video mixer. The selected button lights up. When the SPLIT/VFX [A] button is on, the split/ visual effect A effect is applied to the video.	
Cross-point B [1]–[8] buttons	Selects the video to input to bus B of the video mixer. The selected button lights up. * While compositing of the video is in progress it lit red. When the SPLIT/VFX [B] button is on, the split/ visual effect B effect is applied to the video.	

Nam	ie	Explanation		
	[TRANSITION] button	Selects the video transition effects.		
10		MIX	The two pictures are blended together as the video is switched.	
		WIPE	The original video is broken into by the next video.	
		These make next) the fi	e the preset video (the video to output nal output.	
12	[CUT] button	[CUT]	The picture switches instantly.	
	[AUTO] button	[AUTO]	The picture switches with a transition effect applied.	
1 3	Video fader	Manually switch between the videos being input to bus A and B, and send them to the program output.		
	Transition indicators	The indicator for the final-output bus end lights up		
14	Monitor	Shows the input/output video, a still image, or a menu screen.		
		Switches be	etween displaying or hiding the menu.	
15	[MENU] button	The menu appears on the built-in monitor and the display connected to the OUTPUT 3 connector.		
16	[EXIT] button	Returns you to the menu one level higher.		
17	[VALUE] knob	Turning	Selects a menu item or changes a setting value.	
		Pressing	Accepts the selected menu item or applies changes to a setting. It also executes operations.	

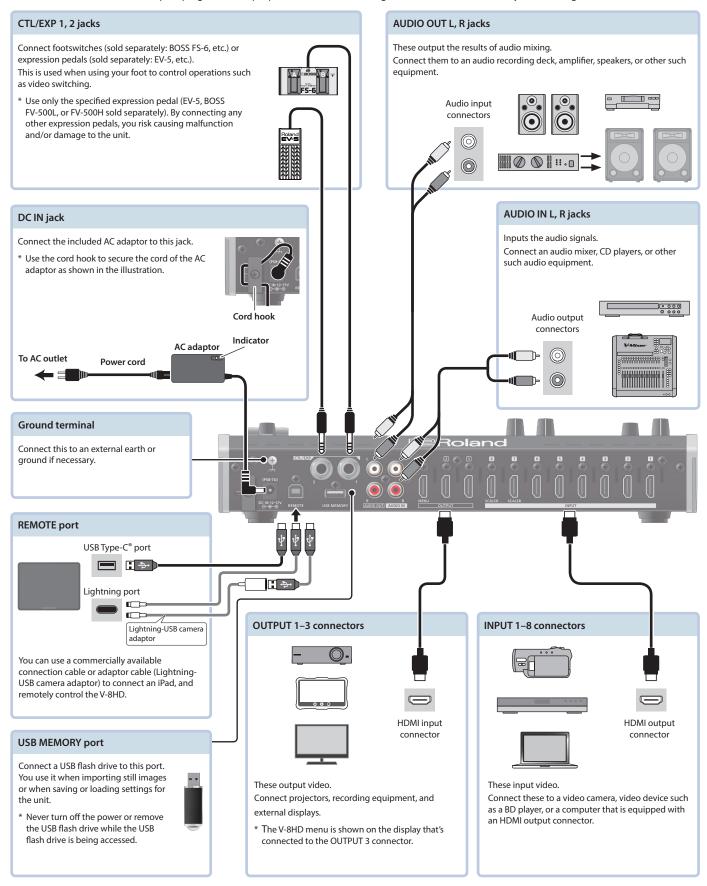
Side panel



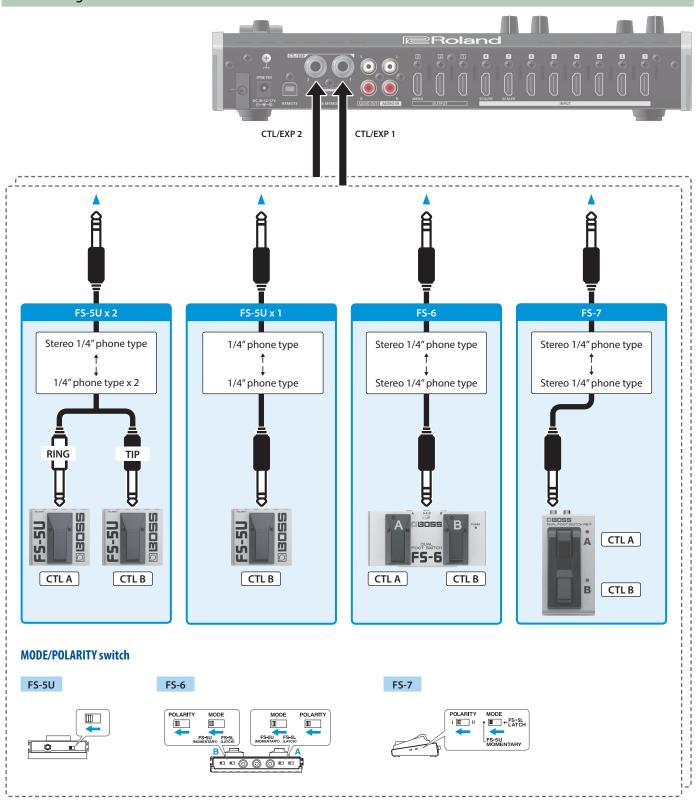
Name		Explanation
18	PHONES jack (Stereo miniature type)	Connect headphones here.
19	[PHONES] knob	Adjusts the volume of the headphones.
20	[POWER] switch	Turns the power on/off.

Rear Panel (Connecting Your Equipment)

- * To prevent malfunction and equipment failure, always turn down the volume, and turn off all the units before making any connections.
- * Be sure to use cables and adaptor plugs with the proper connectors matching those of the other devices you are using.



Connecting a Footswitch



NOTE

The BOSS FS-6's A, B, and A&B jacks also act as the power switch. The power turns on when you insert a plug into the jack, and turns off when you remove the plug.

To prevent the batteries from running down, remove the plugs from the jacks when you're not using the BOSS FS-6.

Multi-View Monitor Display

This unit's monitor shows a list of the input/output video (final output, preview output, input channels 1–8), a level meter, and a menu. If you press the [MENU] button, the menu is shown overlaid on the multi-view.



No.	Name	Explanation				
1	PVW (preview) section	Displays the preset video (the video to be output next). Displays the level meter for AUDIO OUT. Output Out				
2	PGM (program) section	Displays the final output video.		Champion Annie PGM Champion -30 -50 Yellow (Suitable) Green (Insufficient)		
		Displays video input via channels 1–8.				
		The final video output and preset video (the vi	ideo	o to be output next) are displayed with tally frames.		
	Channel section	Channel information		Displays a audio level meter.		
		When the multi-view monitor is shown on an external display, an "MT" indication is shown when	1	* The indicators for the level meter are the same as for AUDIO OUT.		
				Indicates the function selected by the [MODE] button.		
3			2	Indicator Explanation		
				Green AUX (AUX bus selected)		
				Yellow PinP 1 SOURCE (PinP 1 source screen selected)		
				Magenta PinP 2 SOURCE (PinP 2 source screen selected)		
		the audio mute function (p. 39) is on.		The REC indicator is shown.		
		When the audio follow function (p. 37) is on, an "A.F" indication is shown.		If a camera that supports the HDMI REC TRIGGER function is		
		* This is not shown on this unit's display.	3	connected, this is shown when the camera's REC button is pressed.		
		The audio level meter for AUDIO IN is shown above or below.				
AUDIO IN level meter * The indicators for		* The indicators for the level meter are the san	s for the level meter are the same as for AUDIO OUT.			

MEMO

- In the SYSTEM menu, you can specify whether the "label name", "tally frame", "audio level meter", "AUX indicator", "PinP indicator", and "REC indicator" are visible or hidden.
 - MULTI-VIEW LABEL (label names)
- AUX/PinP INDICATOR (AUX indicator/PinP indicator)

- TALLY FRAME

- REC INDICATOR

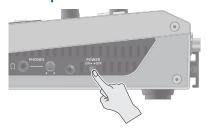
- ALIDIO I EVEL METED
- AUDIO LEVEL METER
 AUDIO IN (AUDIO IN level meter)
- You can edit the label name. Use the SYSTEM menu item "MULTI-VIEW LABEL EDIT" to edit the label name.
- For details on the cameras that support the REC indicator function, refer to the Roland website.
 https://proav.roland.com/

Turning the Power On/Off

* Before turning the unit on/off, always be sure to turn the volume down. Even with the volume turned down, you might hear some sound when switching the unit on/off. However, this is normal and does not indicate a malfunction.

Turning the power on

- 1. Make sure all devices are turned off.
- Turn on the [POWER] switch on the V-8HD to turn on the power.



3. Turn on the power to the source devices.

Turn on the power to video cameras or other source equipment connected to input connectors on the V-8HD.

4. Turn on the power to the output devices.

Turn on the power to projectors or other devices connected to output connectors on the V-8HD.

Turning the power off

- 1. Turn off the power in the sequence of first the output equipment, and then the sources.
- 2. Turn off the [POWER] switch on the V-8HD to turn off the power.

About the Auto Off function

The power to the V-8HD turns off automatically when all of the following states persist for 240 minutes (Auto Off function).

- No operation performed on the V-8HD
- No audio or video input
- No equipment is connected to the OUTPUT connectors

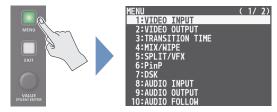
If you do not want the power to be turned off automatically, disengage the Auto Off function. Press the [MENU] button → "SYSTEM" → set "AUTO OFF" to "OFF".

- * Unsaved data is lost when the power turns off. Before turning the power off, save the data that you want to keep.
- * To restore power, turn the power on again.

Using the Menus

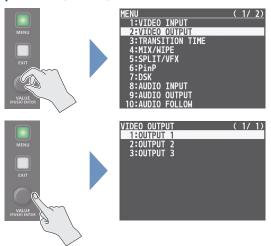
This explains how to display menus and make settings for video and for the V-8HD itself.

- * The menu is also appears on the display connected to the OUTPUT 3 connector.
- 1. Press the [MENU] button to display the menu.



The [MENU] button lights up, the menu categories are displayed.

Turn the [VALUE] knob to select a category, and press the [VALUE] knob to confirm.



The menu for the selected category is displayed.

3. Turn the [VALUE] knob to select a menu item, then press the [VALUE] knob to confirm.

The cursor moves to the setting value.

- If the menu item is located at a deeper level, repeat step 3.
- Pressing the [EXIT] button moves you back one level higher.
- **4.** Turn the [VALUE] knob to change the value of the setting.
- By turning the [VALUE] knob while pressing it, you can change the value more greatly.
- Pressing and holding the [VALUE] knob returns the current menu item you're setting to its default value.
- 5. Press the [VALUE] knob to apply the setting.

The cursor returns to the menu item.

Video Input/Output Settings

Setting the Video Input/Output Format

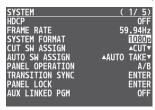
Set parameters for the input/output format to match the connected equipment.

Setting the System Format

On the V-8HD, the input/output format is determined according to the system format. You set the input/output format to match the connected equipment.

System	Input format (*1)	Output format (*2)
format	INPUT 1–6 connectors	OUTPUT 1–2 connectors
1080p	1080p, 1080i	1080p
1080i	1080p, 1080i	1080i
720p	720p	720p

- (*1) You can specify separate individual input formats for the channel 7 and 8 input connectors, regardless of the system format.
 For details, refer to "Setting the Input Formats for Channels 7 and 8" on this page.
- (*2) The output format at the OUTPUT 3 connector is fixed at "1080p".
- Press the [MENU] button → "SYSTEM" → select "SYSTEM FORMAT", and press the [VALUE] knob.



- 2. Use the [VALUE] knob to set the system format to "1080p", "1080i", or "720p", and press the [VALUE] knob.
- 3. Press the [MENU] button to quit the menu.

Internal processing

The V-8HD's internal processing is progressive. Interlaced input video is automatically converted to a progressive signal.

The picture might appear jagged at this time, or the picture in a PinP inset screen or on the multi-view monitor might waver.

This is due to progressive conversion, and is not a malfunction.

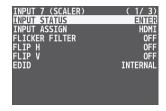
About frame rates

To change the V-8HD's frame rate, press the [MENU] button → "SYSTEM" → "FRAME RATE".

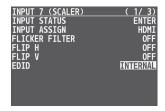
Setting the Input Formats for Channels 7 and 8

By factory default, the EDID assignment for channels 7 and 8 is "INTERNAL" (set so that EDID values of all inputtable formats are sent). To specify an input format of your choice, change the setting of the EDID information being sent so that it matches the incoming video signal.

1. Press the [MENU] button → "VIDEO INPUT" → select "INPUT 7 (SCALER)" or "INPUT 8 (SCALER)", and press the [VALUE] knob.



2. Use the [VALUE] knob to select "EDID", and press the [VALUE] knob.



3. Use the [VALUE] knob to set the input format (the EDID information to send), and press the [VALUE] knob.

Value			
INTERNAL	EDID information for all inputtable formats is sent.		
SVGA (800x600)		UXGA (1600x1200)	
XGA (1024x768)		WUXGA (1920x1200)	
WXGA (1280x800)		720p	
FWXGA (1366x768)		1080i	
SXGA (1280x1024)		1080p	
SXGA+ (1400x1050)			

Adjusting Output Video

Here's how to adjust the output image appropriately for the device that's receiving the V-8HD's output.

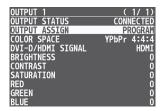
MEMO

You can output a test pattern, useful for adjusting the image quality of a display.

You use the [MENU] button \rightarrow "SYSTEM" \rightarrow "TEST PATTERN" to specify the test pattern.

1. Press the [MENU] button → "VIDEO OUTPUT" → select one of "OUTPUT 1" to "OUTPUT 3", and press the [VALUE] knob.

A menu for the selected output video appears.



Select a menu item, then turn the [VALUE] knob to adjust the output video, and press the [VALUE] knob.

OUTPUT 1	(1/ 1)
OUTPUT STATUS	NOT CONNECTED
OUTPUT ASSIGN	PROGRAM
COLOR SPACE	YPbPr 4:4:4
DVI-D/HDMI SIGNAL	HDMI
BRIGHTNESS	2
CONTRAST	0
SATURATION	0
RED	0
GREEN	0
BLUE	0

Menu item	Explanation
OUTPUT STATUS	Displays information about the output connector.
OUTPUT ASSIGN	Specifies the video bus that is assigned to the OUTPUT connector.
COLOR SPACE	Specifies the color space (system for representing colors in video).
DVI-D/HDMI SIGNAL	Specifies the output mode for HDMI output.
BRIGHTNESS	Adjusts the brightness.
CONTRAST	Adjusts the contrast.
SATURATION	Adjusts the saturation.
RED	Adjusts the red level.
GREEN	Adjusts the green level.
BLUE	Adjusts the blue level.

3. Press the [MENU] button to quit the menu.

Adjusting the Input Video

Here's how to adjust the character of the video that's input to INPUT 1–8.

For INPUT 7 and 8 connectors, you can also adjust the scaling.

1. Press the [MENU] button → "VIDEO INPUT" → select one of "INPUT 1" to "INPUT 8 (SCALER)", and press the [VALUE] knob.

A menu for the selected input video appears.



2. Select a menu item, then turn the [VALUE] knob to adjust the input video, and press the [VALUE] knob.



Menu item	Explanation
INPUT 1–8	
INPUT STATUS	Displays information about the input video.
INPUT ASSIGN	Selects the input source.
FLIP H	If this is "ON", the video is input with left and right flipped.
FLIP V	If this is "ON", the video is input with top and bottom flipped.
BRIGHTNESS	Adjusts the brightness.
CONTRAST	Adjusts the contrast.
SATURATION	Adjusts the saturation.

INPUT 7 (SCALER)	(2/ 3)
Z00M	100.0%
SCALING TYPE	FULL
-MANUAL SIZE H	
-MANUAL SIZE V	
POSITION H	0
POSITION V	0

INPUT 7 (SCALER)	(3/	3)
BRIGHTNESS			0
CONTRAST			0
SATURATION			0
RED			0
GREEN			0
BLUE			0

INPUT 7, 8	
FLICKER FILTER	If this is "ON", flickering is reduced.
EDID	Specifies the input format (EDID).
ZOOM	Adjusts the zoom ratio.
SCALING TYPE	Specifies the scaling type.
MANUAL SIZE H	Adjusts the horizontal size when scaling type is set to "MANUAL".
MANUAL SIZE V	Adjusts the vertical size when scaling type is set to "MANUAL".
POSITION H	Adjusts the display position in the horizontal direction.
POSITION V	Adjusts the display position in the vertical direction.
RED	Adjusts the red level.
GREEN	Adjusts the green level.
BLUE	Adjusts the blue level.

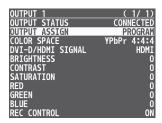
Changing Video Bus Assignments

The V-8HD has four internal video buses (PROGRAM, PREVIEW, AUX, and MULTI-VIEW).

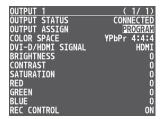
You can select which buses to output via the OUTPUT 1–3 connectors.

Press the [MENU] button → "VIDEO OUTPUT" →
select one of "OUTPUT 1" to "OUTPUT 3", and press
the [VALUE] knob.

A menu for the selected output video appears.



Use the [VALUE] knob to select "OUTPUT ASSIGN", and press the [VALUE] knob.



- 3. Use the [VALUE] knob to select the video bus, and press the [VALUE] knob.
- * If a connector other than the OUTPUT 3 connector is set to "MULTI-VIEW", the audio meter, label, and menu etc. are not shown.
- 4. Press the [MENU] button to guit the menu.

MEMO

- By holding down the [EXIT] button and pressing the [TRANSITION] button, you can switch the video bus that assign to OUTPUT 3 connector.
- For details about video transitions on the A/PGM bus and B/PST bus, refer to "Switching the Video" (p. 11).
- For details about video transitions on the AUX bus, refer to "Switching AUX Output" (p. 16).

About audio outputs assigned to video buses

Changing an video bus assignment makes the output audio also change in tandem, according to the assigned bus.

Video bus assignment	Output audio
PROGRAM	
PREVIEW	Outputs the audio of the MASTER OUTPUT bus.
MULTI-VIEW	
AUX	Outputs the audio of the AUX bus.

You can also fix the output audio to the MASTER OUTPUT bus or AUX bus regardless of the video bus assignment (p. 38).

Inputting Copy-Protected (HDCP) Video

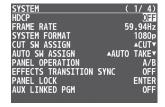
If you want to input HDCP-protected video from a BD player or other device, you can enable HDCP input.

* If you want to output HDCP-protected video, connect an HDCP-capable display.

What's HDCP?

HDCP is copyright-protection technology that prevents unlawful copying of content by encoding the path when sending digital signals from a video playback device to a display monitor or other display equipment.

 Press the [MENU] button → "SYSTEM" → select "HDCP", and press the [VALUE] knob.



Use the [VALUE] knob to select "ON", and press the [VALUE] knob.

Value	Explanation	
ON	HDCP-protected video can be input.	
	HDCP is applied to the output video.	
OFF	HDCP-protected video cannot be input.	

Video Operations

Switching the Video

Here's how to switch between input video while applying an effect, and final output.

About the operation mode for video transitions

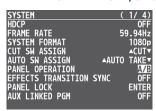
There are two operation modes for switching the video on the PGM/A bus and PST/B bus: the "PGM/PST mode" and the "A/B mode".

* With the factory settings, the operation mode is set to A/B mode.

	Mode	Explanation	
	A/B	When the video fader is operated, the video at the bus position toward which the video fader is flipped always becomes the final output.	
	A/B	When the [CUT] or [AUTO] button is operated, the video on the A bus and the video on the B bus become the final output in alternation.	
		The video on the PGM bus is always the final output.	
PO	PGM/PST	The video on the PST bus is preset video (the video to be output next).	
	1 GW/F 31	Operating the video fader or the [CUT] or [AUTO] button makes the final video output and the preset video change places.	

Setting the Operation Mode

1. Press the [MENU] button → "SYSTEM" → select "PANEL OPERATION", and press the [VALUE] knob.



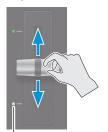
- Use the [VALUE] knob to select "A/B" or "PGM/PST", and press the [VALUE] knob.
- 3. Press the [MENU] button to quit the menu.

Using Mix/Wipe to Switch Video

When A/B mode

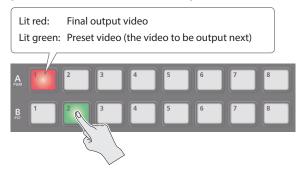
The video at the end to which the video fader is flipped is always the final output.

1. Flip the video fader all the way upward or downward.



Transition indicators

2. Press a Cross-point [1]–[8] button at the end to which the video fader is not flipped to select the preset video (the video to output next).



The preset video appears in the PVW section of the monitor.

3. Press the [TRANSITION] button to select the transition effect.



The MIX or WIPE indicator is lit.

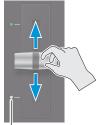
Mode	Explanation	
MIX	The two pictures are blended together as the video is switched.	
, , , , , , , , , , , , , , , , , , ,	A ► B ► B	
	The original video is broken into by the next video.	
WIPE	A > A > B	

4. Move the video fader in the direction opposite to the direction in step 1.

The video changes.

When PGM/PST mode is selected

1. Flip the video fader all the way upward or downward.

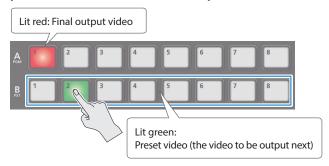


Transition indicators

Press the [TRANSITION] button to select the transition effect.



3. Press a Cross-point B [1]–[8] button to select the preset video (the video to be output next).



4. Move the video fader in the direction opposite to the direction in step 1.

The video changes.

When the video has switched completely, the illuminated state of the A [1]–[8] buttons and B [1]–[8] buttons is exchanged.

Changing the mix/wipe pattern

You can use the MIX/WIPE menu to specify the pattern by which the mix/wipe occurs and the direction of the wipe.

1. Press the [MENU] button → select "MIX/WIPE", and press the [VALUE] knob.



Use the [VALUE] knob to select a menu item, and press the [VALUE] knob.

Menu item	Explanation
MIX TYPE	Specifies the transition pattern for mix.
WIPETYPE	Specifies the transition pattern for wipe.
WIPE DIRECTION	Specifies the direction of wipe.
WIPE BORDER COLOR	Specifies the color of the border added to the edge of the wipe area.
WIPE BORDER WIDTH	Exchanges the colors.

3. Use the [VALUE] knob to change the value, and press the [VALUE] knob.

For details about these values, refer to p. 67.

4. Press the [MENU] button to quit the menu.

MEMO

- By holding down the [TRANSITION] button and pressing the [MENU] button, the MIX/WIPE menu appears.
- You can change the settings of the MIX/WIPE menu by holding down the [TRANSITION] button and turning the SPLIT/VFX [A] or [B] knob.

- When mix is selected

Operation	Explanation	
[TRANSITION] button + turn the SPLIT/VFX [A] knob	MIX TYPE	

When wipe is selected

Operation	Explanation
[TRANSITION] button + turn the SPLIT/VFX [A] knob	WIPE TYPE
[TRANSITION] button + turn the SPLIT/VFX [B] knob	WIPE DIRECTION
[TRANSITION] button + turn while pressing the SPLIT/VFX [A] knob	WIPE BORDER COLOR
[TRANSITION] button + turn while pressing the SPLIT/VFX [B] knob	WIPE BORDER WIDTH

Using the [AUTO] or [CUT] Button to Switch Video

You can use the [AUTO] or [CUT] button to switch video, without using the video fader.

- * You can perform operations using the [AUTO] and [CUT] buttons both in the PGM/PST mode and in the A/B mode.
- 1. Press the [AUTO] or [CUT] button at the desired timing for switching the video.



Explanation	
The picture switches instantly.	
A transition effect is applied and the video is switched automatically.	
The [AUTO] button flashes while the video transition is in progress.	

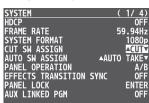
MEMO

When you use the [AUTO] or [CUT] button to switch video, the actual output might come to differ from the position of the video fader.

Operating the video fader while in this state yields no change in output until the position of the video fader matches the actual output.

Changing the functions of the [CUT] and [AUTO] buttons

- * In PGM/PST mode, the functions of the [CUT] and [AUTO] buttons are fixed.
- Press the [MENU] button → "SYSTEM" → select "CUT SW ASSIGN" or "AUTO SW ASSIGN", and press the [VALUE] knob.



2. Use the [VALUE] knob to select a function of the button, and press the [VALUE] knob.

Function	Explanation	
▲ AUTO TAKE ▼	Switches the video between A/PGM bus and B/PST bus.	
▲ CUT ▼	Switches the video between A/PGM bus and B/PST bus as a cut.	
CUT SW ASSIGN		
▲ AUTO TAKE	When the video of the B/PST bus is selected, switches to the video of the A/PGM bus.	
▲ CUT	When the video of the B/PST bus is selected, switches to the video of the A/PGM bus as a cut.	
▲ TRANSFORM	Switches to the video of the A/PGM bus as a cut only while you hold down the button.	

Function	Explanation
AUTO SW ASSIGN	
AUTO TAKE ▼	When the video of the A/PGM bus is selected, switches to the video of the B/PST bus.
CUT ▼	When the video of the A/PGM bus is selected, switches to the video of the B/PST bus as a cut.
TRANSFORM ▼	Switches to the video of the B/PST bus as a cut only while you hold down the button.

3. Press the [MENU] button to quit the menu.

Turning PinP/DSK composition on/off in tandem with video transitions

You can make PinP composition (p. 19) or DSK composition (p. 22) turn on/off in tandem with the video transitions.

Press the [MENU] button → select "SYSTEM"
 → "EFFECTS TRANSITION SYNC", and press the [VALUE] knob.



- 2. Use the [VALUE] knob to select "ON", and press the [VALUE] knob.
- **3.** Press the [MENU] button to quit the menu.

Switching the Video Automatically (Auto Switching)

The video of INPUT 1–8 or of preset memories can be switched automatically (the auto switching function). You can make operation easier by letting the video switch automatically.

Operation modes for auto switching

Auto switching provides three operation modes that you can select as appropriate for your situation: "input scan", "preset memory scan", and "BPM sync".

Switching at a specified interval (Input scan)

This automatically switches the INPUT 1–8 video when a specified length of time elapses.

You can change the duration that each video is shown, and also switch randomly between videos.

This is convenient when you want to switch between video signals of multiple cameras, for example when live-streaming a singer-instrumentalist.

* Channels that have no video input are skipped.

Switching preset memories (Preset memory scan)

This automatically switches between preset memories 1–8.

The video and audio are switched according to the settings that are saved in each preset memory.

* Preset memories in which no settings have been saved are skipped.

Switching in synchronization with the BPM (BPM sync)

This automatically switches the video at specified BPM intervals.

This lets you create video transitions that are synchronized with the music, for example when live-streaming a DJ performance or a musical performance.

Turning the auto switching function on/off

1. Press the [AUTO SWITCHING] button to turn the auto switching function on (lit).



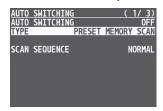
Indicator	Explanation
Green Input scan	
Blue Preset memory scan	
Red	BPM sync

2. To turn the auto switching function off, press the [AUTO SWITCHING] button once again.

Specifying the operation mode

Input scan

 Press the [MENU] button → "AUTO SWITCHING" → select "TYPE", and press the [VALUE] knob.



Use the [VALUE] knob to select "INPUT SCAN", and press the [VALUE] knob.



3. Use the [VALUE] knob to select a menu item, and press the [VALUE] knob.

	I
Menu item	Explanation
	Specifies the order in which video signals are shown.
	NORMAL:
CCAN CECUENCE	Switch in the order of INPUT 1 \rightarrow 8.
SCAN SEQUENCE	REVERSE:
	Switch in the order of INPUT 8 \rightarrow 1.
	RANDOM:
	Switch randomly.
SCAN TRANSITION TIME	Specifies the video transition time.
	Specifies the video bus in which video transition.
	A/B:
SCAN TARGET	Switches between A/PGM bus and B/PST bus.
	PinP 1, PinP 2:
	Switches the video you want to make the inset screen of the PinP 1 or PinP 2.
INPUT 1–8 TIME	Specifies the time that the INPUT 1–8 video is shown.

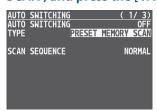
- Use the [VALUE] knob to change the value, and press the [VALUE] knob.
- 5. Press the [MENU] button to quit the menu.

Preset memory scan

 Press the [MENU] button → "AUTO SWITCHING" → select "TYPE", and press the [VALUE] knob.



Use the [VALUE] knob to select "PRESET MEMORY SCAN", and press the [VALUE] knob.



3. Use the [VALUE] knob to select a menu item, and press the [VALUE] knob.

Menu item	Explanation
	Specifies the order in which preset memories are shown.
	NORMAL:
	Switch in the order of MEMORY 1 \rightarrow 24.
SCAN SEQUENCE	REVERSE: Switch in the order of MEMORY 24 \rightarrow 1.
	RANDOM:
	Switch randomly.
MEMORY 1–24 TIME	Specifies the time that the MEMORY 1–24 video is shown.

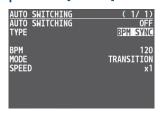
- **4.** Use the [VALUE] knob to change the value, and press the [VALUE] knob.
- 5. Press the [MENU] button to quit the menu.

BPM sync

 Press the [MENU] button → "AUTO SWITCHING" → select "TYPE", and press the [VALUE] knob.



2. Use the [VALUE] knob to select "BPM SYNC", and press the [VALUE] knob.



3. Use the [VALUE] knob to select a menu item, and press the [VALUE] knob.

Menu item	Explanation	
ВРМ	Specifies the BPM.	
	Specifies how the picture is switched.	
	TRANSITION:	
MODE	The picture switches using the currently selected transition effect (mix or wipe).	
	CUT:	
	The picture switches instantly.	
SPEED	Specifies the picture switching speed as a multiple of the specified BPM.	

- **4.** Use the [VALUE] knob to change the value, and press the [VALUE] knob.
- 5. Press the [MENU] button to quit the menu.

Switching AUX Output

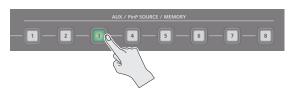
You can use button operations to directly select the video to send to the AUX bus.

1. Use the [MODE] button to select "AUX".



The AUX/PinP SOURCE/MEMORY [1]–[8] buttons function as AUX-bus selection buttons.

2. Press an AUX [1]–[8] button to select the AUX-bus video.



The AUX output is switched.

MEMO

- The display shows a green square (AUX indicator) for the input channel that is being sent to the AUX bus.
- For details on adjusting the volume of the AUX bus audio, refer to "Adjusting the output volume of the AUX bus" (p. 34).
- If the DSK mode is set to "alpha key" (p. 27) or "external key" (p. 28), the same video that's sent to the PGM bus is also sent to the AUX bus.
 - * This disables the AUX [1]–[8] button selection (the buttons go dark).

The colors of lighted AUX [1]–[8] buttons

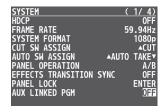
When the [MODE] button is lighted in green, the AUX [1]–[8] buttons also function as indicators showing the status of video input.

Button	Explanation	
Lit white	Valid video is being input.	
Blink white	Video whose format differs from the system format setting is input.	
Unlit	No video is input.	

Sending the same video as the PGM output to the AUX output

By using the AUX link function, you can send the same video as the PGM bus (the final output video) to the AUX bus.

1. Press the [MENU] button → "SYSTEM" → select "AUX LINKED PGM", and press the [VALUE] knob.



2. Use the [VALUE] knob to select "AUTO LINK" or "MANUAL LINK", and press the [VALUE] knob.

If you're not using the AUX link function, turn this "OFF".

3. Press the [MENU] button to quit the menu.

Selecting the AUX output

In the case of "OFF"

Press an AUX [1]–[8] button to select the video of the AUX bus.

In the case of "AUTO LINK" or "MANUAL LINK"

AUX link is enabled, and the same video as the PGM bus is sent to the AUX bus.

Temporarily disabling AUX link

When you press an AUX [1]–[8] button, the selection of the AUX [1]–[8] button is enabled (lit green).

Re-enabling AUX link

AUTO LINK	When you operate the [AUTO] button etc. to switch the video of the PGM bus, AUX link is automatically enabled.
MANUAL LINK	When you press the AUX/MEMORY button that is currently selected (lit green), AUX link is enabled.

Compositing Video with Split (SPLIT)

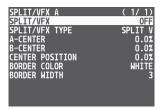
This composites two video streams in a split screen. The final output video is displayed above or on the left, and the preset video (the video to be output next) is displayed below or on the right.



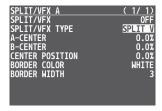
Specifying a Split Composition Pattern

This makes the settings for the split composition pattern to match the video you want to composite.

 Press the [MENU] button → "SPLIT/VFX" → select "SPLIT/VFX A" or "SPLIT/VFX B", and press the [VALUE] knob.



2. Use the [VALUE] knob to select "SPLIT/VFX TYPE", and press the [VALUE] knob.



3. Use the [VALUE] knob to select the SPLIT type, and press the [VALUE] knob.

You can select "SPLIT V" or "SPLIT H".

Value	Explanation	
SPLIT V	This vertically crops the center section of the video.	A B
SPLIT H	This horizontally crops the center section of the video.	A B Ulliand B

4. Press the [MENU] button to quit the menu.

MEMO

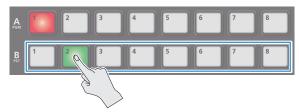
For each of the split screens, you can adjust the displayed position of the video and change the color or width of the border. For details, refer to p. 68 of "Menu list".

Compositing Using Split

 Press a Cross-point A [1]–[8] button to select the video you want to display above or on the left.



2. Press a Cross-point B [1]–[8] button to select the video you want to display below or on the right.



3. Press the SPLIT/VFX [A] or [B] button to turn on SPLIT (lighted).



The video you selected in steps 1 and 2 is composited.

4. Use the SPLIT/VFX [A] or [B] knob to adjust the display position of the video.





- By turning the knob while pressing it, you can adjust the position of the dividing line between the two videos.
- 5. To turn off SPLIT, press the SPLIT/VFX [A] or [B] button once again.

Using a Visual Effect (VFX)

Here's how you can apply an effect to the entire video, such as varying the video's color or shape.

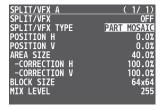
You can apply a visual effect (VFX) to the A/PGM bus and B/PST bus respectively.

Selecting a Visual Effect

 Press the [MENU] button → "SPLIT/VFX" → select "SPLIT/VFX A" or "SPLIT/VFX B", and press the [VALUE] knob.



2. Use the [VALUE] knob to select "SPLIT/VFX TYPE", and press the [VALUE] knob.



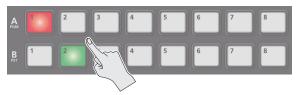
- 3. Use the [VALUE] knob to select the visual effect, and press the [VALUE] knob.
- * With the factory settings, "PART MOSAIC" is specified.

Туре	Explanation	
PART MOSAIC	Applies a mosaic to the selected region.	
BACKGROUND MOSAIC	Applies a mosaic to the portion outside the selected region.	
FULL MOSAIC	Applies a mosaic to the entire screen.	
WAVE	Makes the video wavy.	
RGB REPLACE	Exchanges the colors.	
COLORPASS	Turns the video black and white while preserving a specific color.	
NEGATIVE	Inverts the brightness and saturation.	
COLORIZE	Adds color to the video.	
POSTERIZE	Changes the gradations in brightness.	
SILHOUETTE	Separates the video into light and dark areas, and makes the dark areas black and adds a different color to the light areas.	
EMBOSS	Adds a bas-relief effect to the video.	
FIND EDGES	Extracts contours.	
MONOCOLOR	Turns the video monochrome.	
HUE OFFSET	Changes the visual character by controlling the hue.	
SATURATION OFFSET	Changes the visual character by controlling the saturation.	
VALUE OFFSET	Changes the visual character by controlling the brightness.	

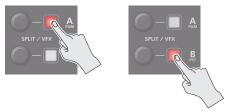
4. Press the [MENU] button to quit the menu.

Applying Visual Effects

1. Press a Cross-point A or B [1]–[8] button to output the video to which you want to apply the effect.



2. Press the SPLIT/VFX [A] or [B] button to turn on the visual effect (making the button light up).



The visual effect is applied to the output video.

Use the SPLIT/VFX [A] or [B] knob to adjust the degree of effect applied.





To turn off a visual effect, press the SPLIT/VFX [A] or [B] button once again.

MEMO

 For "PART MOSAIC" and "BACKGROUND MOSAIC", you can adjust the following settings.

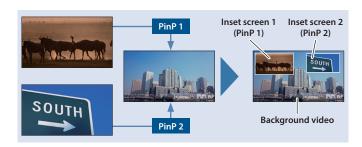
Knob operation	Explanation
	Adjusts the horizontal position of the selected area.
Turning	While pressing an A or B [1]–[8] button:
	Adjusts the size of the selected area.
	Adjusts the vertical position of the selected area.
Turn while pressing	While pressing an A or B [1]–[8] button:
	Specifies the fineness (block size) of the mosaic.

- Settings for the effect that is controlled by the SPLIT/VFX [A] or [B] knobs can be checked in the VFX menu.
- By holding down the SPLIT/VFX [A] or [B] button and pressing the [MENU] button, the SPLIT/VFX A or B menu appears.
- By holding down the SPLIT/VFX [A] or [B] button and turning the SPLIT/VFX [A] or [B] knob, you can change the type of visual effect

Compositing Video with Picture-in-Picture (PinP)

Here's how to composite an inset screen (a small separate screen) onto the background video.

You can use PinP 1 and PinP 2 simultaneously to composite two inset screens.

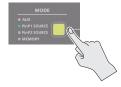


Here we explain the procedure for compositing video using "PinP 1". You can also composite video using the same procedure using "PinP 2".

1. Press a Cross-point A or B [1]-[8] button to select the video you want to make the background video.



2. Press the [MODE] button to select "PinP 1 SOURCE".



3. Press a PinP SOURCE [1]–[8] button to select the video you want to make the inset screen.



4. Press the PinP 1 [PVW] button to preview-output the video of the inset screen.



The PinP 1 [PVW] button lights up in green and the inset screen appears in the PVW section of the monitor, allowing you to check the inset screen's location and size.

At this stage, the final output has not yet been changed.

5. Use the PinP 1 [POSITION H] and [POSITION V] knobs to adjust the display position of the inset screen.



Knob	Explanation
[POSITION H]	Adjusts the inset screen's display position horizontally.
	Turn while pressing:
	Adjusts the size of the inset screen.
	Adjusts the inset screen's display position vertically.
[POSITION V]	Turn while pressing:
	Adjusts the zoom of the video shown in the inset screen.

Press the PinP 1 [ON] button to turn on PinP compositing (lit).



The PinP 1 [ON] button lights up in red, and the inset screen is composited onto the background video and the result is sent to final output.

7. To turn off PinP compositing, press the PinP 1 [ON] button once again.

MEMO

By long-pressing the PinP 1 (2) [PVW] button, you can access
the mode for selecting the inset screen without having to
press the [MODE] button and then select "PinP 1 SOURCE" or
"PinP 2 SOURCE".

While pressing the PinP 1 (2) [PVW] button, press a PinP SOURCE [1]–[8] button to select the video that you want to use as the inset screen.

- The fade time over which the inset screen appears or disappears when you press the [ON] button is specified by the setting of the TRANSITION TIME menu item "PinP 1 TIME" or "PinP 2 TIME".
- By holding down the PinP 1 (PinP 2) [PVW] button and pressing the [MENU] button, the PinP 1 or PinP 2 menu appears.
- You can make PinP/DSK composition (p. 22) turn on/off in tandem with the video transitions.
 - → "Turning PinP/DSK composition on/off in tandem with video transitions" (p. 13)

After step 5, use the [AUTO] and [CUT] buttons or operate the video fader to switch the video. PinP composition turns on, and the composited result that is previewed is sent to final output.

Making Detailed Settings for the Inset Screen

Detailed settings for size, shape, and border width etc. can be made for the PinP 1 and PinP 2 inset screens respectively.

 Press the [MENU] button → "PinP" → select "PinP 1" or "PinP 2", and press the [VALUE] knob.

PinP PinP	1 SOURC	Œ			(1/ 2) HDMI 1
COPY				PinP		PinP EXEC
WINDO POSI	OW ITION ITION	Н	MIIH	PinP		42.0% -31.0% 35.0%

2. Use the [VALUE] knob to select a menu item, and press the [VALUE] knob.

Menu item	Explanation
WINDOW	Use the following items to adjust the inset screen.
POSITION H	Adjusts horizontal display position.
POSITION V	Adjusts vertical display position.
	Adjusts the size (zoom).
SIZE	This specifies the inset screen's horizontal width as a proportion of the background video's horizontal width.
CROPPING H	Adjusts the horizontal frame size.
CROPPING V	Adjusts the vertical frame size.
SHAPE	Specifies the shape (rectangle, circle, diamond).
BORDER COLOR	Specifies the color of the border.
BORDER WIDTH	Adjusts the width of the border.
VIEW	Use the following items to adjust the video that is shown in the inset screen.
POSITION H	Adjusts the horizontal position.
POSITION V	Adjusts the vertical position.
ZOOM	Adjusts the zoom.

- 3. Use the [VALUE] knob to change the value, and press the [VALUE] knob.
- 4. Press the [MENU] button to guit the menu.

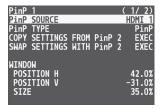
Using Key Compositing to Remove the PinP Background Video

By changing the PinP type, you can composite the video by applying "luminance key" (p. 23) or "chroma key" (p. 25) to the PinP.

If you apply the luminance key function, the black or white portion of the inset screen becomes transparent, extracting the text or image and compositing it onto the background video.

If you apply the chroma key function, and a video that was shot against a blue or green backdrop is selected as the inset screen, the blue or green portion of the inset screen becomes transparent, extracting only the subject and compositing it onto the background video.

 Press the [MENU] button → "PinP" → select "PinP 1" or "PinP 2", and press the [VALUE] knob.



Use the [VALUE] knob to select "PinP TYPE", and press the [VALUE] knob.



Use the [VALUE] knob to select the PinP type, and press the [VALUE] knob.

Туре	Explanation
	Composite using luminance key.
LUMINANCE-WHITE KEY	Makes white portions transparent according to brightness.
	Composite using luminance key.
LUMINANCE-BLACK KEY	Makes black portions transparent according to brightness.
	Composite using chroma key.
CHROMA KEY	Makes the specified key color transparent according to hue.

Copying the PinP Settings

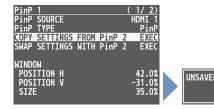
You can copy the PinP 2 settings to PinP 1, or the settings of PinP 1 to PinP 2.

 Press the [MENU] button → "PinP" → select "PinP 1" or "PinP 2", and press the [VALUE] knob.



Use the [VALUE] knob to select "COPY SETTINGS FROM PinP 2 (or PinP 1)", and press the [VALUE] knob.

A confirmation message appears.



- * If you decide to cancel, press the [EXIT] button.
- 3. Use the [VALUE] knob to select "OK", and press the [VALUE] knob.

The PinP settings are copied.

When the operation is finished, the message "COMPLETE" appears.

4. Press the [MENU] button to quit the menu.

Exchanging the PinP 1 and PinP 2 Settings

You can exchange the settings of PinP 1 and PinP 2.

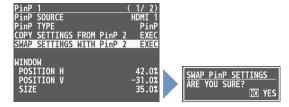
By using this function when (for example) the PinP 1 inset screen is in the foreground and the PinP 2 inset screen is behind, you can exchange the settings so that the PinP 1 screen moves behind and the PinP 2 inset screen moves to the foreground.

1. Press the [MENU] button → "PinP" → select "PinP 1" or "PinP 2", and press the [VALUE] knob.



2. Use the [VALUE] knob to select "SWAP SETTINGS WITH PinP 2 (or PinP 1)", and press the [VALUE] knob.

A confirmation message appears.



- * If you decide to cancel, press the [EXIT] button.
- 3. Use the [VALUE] knob to select "YES", and press the [VALUE] knob.

The PinP 1 and PinP 2 settings are exchanged.

When the operation is finished, the message "COMPLETE" appears.

Compositing Video with Downstream Keyer (DSK)

Here's how you can turn a portion of the video transparent and composite it with the background video. You can use luminance key with either a black or a white background, or a chroma key with either a blue or green background.

You can additionally composite a variety of text and images with video that was composited using PinP or another method.

About DSK Mode

There are three DSK composition modes, "self key", "alpha key" and "external key".

The following video compositing is available according to the DSK mode.

Self key

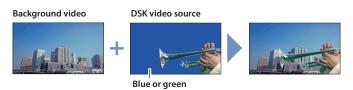
Luminance key (p. 23)

You can cut out text or an image by turning its black or white portion transparent, and then superimpose it on the background video.



Chroma key (p. 25)

You can cut out a video by turning its blue or green portion transparent, and then superimpose it on the background video. You can select a color from the video material to set as the key color.



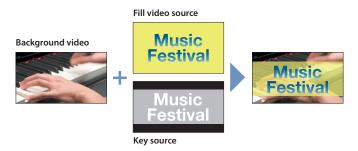
Alpha key (p. 27)

Use alpha channels (areas which contain transparency data) to cut out still images and place them against different background video as a composite.



External key (p. 28)

Sets the key signal (the shape to be cut out) and the fill video (the video to be composited) separately. This uses the key signal to cut out the fill video and superimpose it on the background video to create the composite.



Using Luminance Key

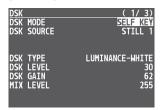
Luminance key

This cuts out text or an image by turning the black or white portion transparent, and composites it onto the background video.



Setting the DSK mode, source and type

 Press the [MENU] button → "DSK" → select "DSK MODE", "DSK SOURCE", or "DSK TYPE", and press the [VALUE] knob.



2. Use the [VALUE] knob to change the setting as shown below.

Menu item	Explanation
DSK MODE	SELF KEY
DSK SOURCE Select the source of the text or image that you want to superimpose.	
DSK TYPE	LUMINANCE-WHITE (Makes white portions transparent according to brightness.)
	LUMINANCE-BLACK (Makes black portions transparent according to brightness.)

3. Press the [MENU] button to guit the menu.

Compositing using luminance key

1. Output the background video.

At the PVW section of the monitor, check the video to be made the background.

Press the DSK [PVW] button to turn on the preview output (lit).



The DSK [PVW] button lights up in green, and a preview of the composition results is displayed in the PVW section of the monitor. At this stage, the final output has not yet been changed.

3. Use the DSK [LEVEL] and [GAIN] knob to adjust the degree of effect applied.



Knob	Explanation
[LEVE	Adjusts the degree of extraction (transparency) for the key.
[GAIN	Adjusts the degree of edge blur (semi-transmissive region) for the key.

Press the DSK [ON] button to turn on luminance key composition (lit).



The DSK [ON] button lights up in red, and the composition results is sent to final output.

5. To turn off luminance key compositing, press the DSK [ON] button once again.

MEMO

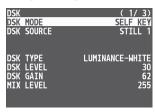
- The fade time over which the text/image appears or disappears when you press the DSK [ON] button is specified by the setting of the TRANSITION TIME menu item "DSK TIME".
- By holding down the DSK [PVW] button and pressing the [MENU] button, the DSK menu appears.
- You can make DSK/PinP composition (p. 19) turn on/off in tandem with the video transitions.
 - → "Turning PinP/DSK composition on/off in tandem with video transitions" (p. 13)

After step 3, use the [AUTO] and [CUT] buttons or operate the video fader to switch the video. DSK composition turns on, and the composited result that is previewed is sent to final output.

Modifying the superimposed video

When using luminance key compositing, you can fill-in the superimposed image or add an edge to it.

- * This setting is in common with chroma key.
- 1. Press the [MENU] button → select "DSK", and press the [VALUE] knob.



2. Use the [VALUE] knob to select the menu items shown below, and press the [VALUE] knob.



Menu item	Explanation
FILLTYPE	If this is set to "MATTE", the superimposed text or image is filled-in with the specified color.
MATTE COLOR	The fill-in color is specified by "MATTE COLOR".
EDGE TYPE	Specifies the type of edge.
EDGE COLOR	Specifies the color of the edge.
EDGE WIDTH	Specifies the width of the edge.

- 3. Use the [VALUE] knob to change the value, and press the [VALUE] knob.
- 4. Press the [MENU] button to quit the menu.

Using Chroma Key

Chroma key

This cuts out a video by turning the blue or green portion transparent, and composites it onto the background video. Using this, you can composite only a subject that you are photographing against a blue screen or green screen.



Setting the DSK mode, source and type

 Press the [MENU] button → "DSK" → select "DSK MODE", "DSK SOURCE", "DSK TYPE", or "COLOR", and press the [VALUE] knob.



2. Use the [VALUE] knob to change the setting as shown below.

Menu item	Explanation
DSK MODE	SELF KEY
DSK SOURCE	Select the source of the video that you want to superimpose.
DSKTYPE	CHROMA
COLOR	Specify either "GREEN" or "BLUE" as the key color (the color to be removed). You can also specify a color you desire as the key color (p. 26).

3. Press the [MENU] button to quit the menu.

Compositing using chroma key

1. Output the background video.

At the PVW section of the monitor, check the video to be made the background.

Press the DSK [PVW] button to turn on the preview output (lit).



The DSK [PVW] button lights up in green, and a preview of the composition results is displayed in the PVW section of the monitor. At this stage, the final output has not yet been changed.

3. Use the DSK [LEVEL] and [GAIN] knob to adjust the degree of effect applied.



Knob	Explanation
[LEVEL]	Adjusts the degree of extraction (transparency) for the key.
[GAIN]	Adjusts the degree of edge blur (semi-transmissive region) for the key.

Press the DSK [ON] button to turn on chroma key composition (lit).



The DSK [ON] button lights up in red, and the composition results is sent to final output.

5. To turn off chroma key compositing, press the DSK [ON] button once again.

MEMO

- The fade time over which the video appears or disappears when you press the DSK [ON] button is specified by the setting of the TRANSITION TIME menu item "DSK TIME".
- By holding down the DSK [PVW] button and pressing the [MENU] button, the DSK menu appears.
- You can make DSK/PinP composition (p. 19) turn on/off in tandem with the video transitions.
 - → "Turning PinP/DSK composition on/off in tandem with video transitions" (p. 13)

After step 3, use the [AUTO] and [CUT] buttons or operate the video fader to switch the video. DSK composition turns on, and the composited result that is previewed is sent to final output.

Finely adjusting the key color (removed color)

- Press the [MENU] button → select "DSK", and press the [VALUE] knob.
- Use the [VALUE] knob to select the menu items shown below, and press the [VALUE] knob.



Menu item	Explanation
CHROMA	Use the following items to make fine adjustments to the key color.
HUE WIDTH	Adjusts the hue width.
HUE FINE	Adjusts the center position of the hue.
SATURATION WIDTH	Adjusts the saturation width.
SATURATION FINE	Adjusts the center position of saturation.

- 3. Use the [VALUE] knob to change the value, and press the [VALUE] knob.
- 4. Press the [MENU] button to guit the menu.

Modifying the superimposed video

When using chroma key compositing, you can fill-in the superimposed image or add an edge to it.

- * This setting is in common with luminance key.
- Press the [MENU] button → select "DSK", and press the [VALUE] knob.
- 2. Use the [VALUE] knob to select the menu items shown below, and press the [VALUE] knob.



Menu item	Explanation
FILL TYPE	If this is set to "MATTE", the superimposed video is filled-in with the specified color.
MATTE COLOR	The fill-in color is specified by "MATTE COLOR".
EDGE TYPE	Specifies the type of edge.
EDGE COLOR	Specifies the color of the edge.
EDGE WIDTH	Specifies the width of the edge.

- 3. Use the [VALUE] knob to change the value, and press the [VALUE] knob.
- 4. Press the [MENU] button to guit the menu.

To specify a desired color as the key color (sampling marker)

You can specify the key color to be made transparent simply by sampling (detecting) a color from the video. (This is called the sampling marker function.) You can also specify a key color other than green or blue.

 Press the [MENU] button → "DSK" → select "SAMPLING MARKER", and press the [VALUE] knob.



2. Use the [VALUE] knob to select "ON", and press the [VALUE] knob.

The sampling marker (cross-shaped cursor) is shown on the monitor of the unit and in the OUTPUT 3 connector's output video.

- Use the [VALUE] knob to select "POSITION H" or "POSITION V", and press the [VALUE] knob.
- Use the [VALUE] knob to adjust the position of the sampling marker.

Menu item	Explanation
POSITION H	Adjusts the horizontal position.
POSITION V	Adjusts the vertical position.

Use the [VALUE] knob to select "SAMPLING EXECUTE", and press the [VALUE] knob.

A confirmation message appears.



- * If you decide to cancel, press the [EXIT] button.
- Use the [VALUE] knob to select "YES", and press the [VALUE] knob.

The key color is sampled.

The "HUE WIDTH", "HUE FINE", "SATURATION WIDTH", and "SATURATION FINE" settings are adjusted automatically.

Compositing a Still Image with Alpha Channel

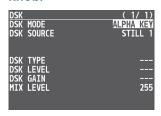
Alpha key

Use alpha channels (areas which contain transparency data) to cut out still images and place them against different background video as a composite.



Setting the DSK mode or a still image to composite

 Press the [MENU] button → "DSK" → select "DSK MODE" or "DSK SOURCE", and press the [VALUE] knob.



Use the [VALUE] knob to change the setting as shown below.

Menu item	Explanation
DSK MODE	ALPHA KEY
DSK SOURCE	Select the still image with alpha channel.

3. Press the [MENU] button to guit the menu.

Compositing using DSK

1. Output the background video.

At the PVW section of the monitor, check the video to be made the background.

2. Press the DSK [PVW] button to turn on the preview output (lit).



The DSK [PVW] button lights up in green, and a preview of the composition results is displayed in the PVW section of the monitor.

At this stage, the final output has not yet been changed.

3. Press the DSK [ON] button to turn on DSK compositing (lit).



The DSK [ON] button lights up in red, and the composition results is sent to final output.

4. To turn off DSK compositing, press the DSK [ON] button once again.

MEMO

- The fade time over which the still image appears or disappears when you press the DSK [ON] button is specified by the setting of the TRANSITION TIME menu item "DSK TIME".
- By holding down the DSK [PVW] button and pressing the [MENU] button, the DSK menu appears.
- You can make DSK/PinP composition (p. 19) turn on/off in tandem with the video transitions.
 - → "Turning PinP/DSK composition on/off in tandem with video transitions" (p. 13)

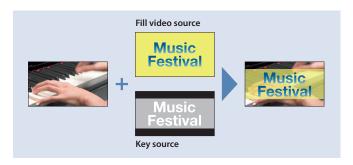
After step 2, use the [AUTO] and [CUT] buttons or operate the video fader to switch the video. DSK composition turns on, and the composited result that is previewed is sent to final output.

- If the DSK mode is set to "alpha key" or "external key" (p. 28), the same video that's sent to the PGM bus is also sent to the AUX bus (p. 16).
 - * This disables the AUX [1]–[8] button selection (the buttons go dark).

Using an External Key

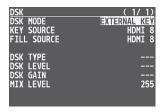
External key

This sets the key signal (the shape to be cut out) and the fill video (the video to be composited) separately. With an external key, the key signal is used to cut out the fill video and superimpose it on the background video to create the composite.



Setting the DSK mode or key/fill video

 Press the [MENU] button → "DSK" → select "DSK MODE", "KEY SOURCE", or "FILL SOURCE", and press the [VALUE] knob.



2. Use the [VALUE] knob to change the setting as shown below.

Menu item	Explanation
DSK MODE	EXTERNAL KEY
KEY SOURCE	Select the video to use as the key signal.
FILL SOURCE	Select the fill video source.

3. Press the [MENU] button to quit the menu.

Compositing using DSK

1. Output the background video.

At the PVW section of the monitor, check the video to be made the background.

Press the DSK [PVW] button to turn on the preview output (lit).



The DSK [PVW] button lights up in green, and a preview of the composition results is displayed in the PVW section of the monitor.

At this stage, the final output has not yet been changed.

Press the DSK [ON] button to turn on DSK compositing (lit).



The DSK [ON] button lights up in red, and the composition results is sent to final output.

4. To turn off DSK compositing, press the DSK [ON] button once again.

MEMO

- The fade time over which the DSK video appears or disappears when you press the DSK [ON] button is specified by the setting of the TRANSITION TIME menu item "DSK TIME".
- By holding down the DSK [PVW] button and pressing the [MENU] button, the DSK menu appears.
- You can make DSK/PinP composition (p. 19) turn on/off in tandem with the video transitions.
 - → "Turning PinP/DSK composition on/off in tandem with video transitions" (p. 13)

After step 2, use the [AUTO] and [CUT] buttons or operate the video fader to switch the video. DSK composition turns on, and the composited result that is previewed is sent to final output.

- If the DSK mode is set to "alpha key" (p. 27) or "external key", the same video that's sent to the PGM bus is also sent to the AUX bus (p. 16).
 - * This disables the AUX [1]–[8] button selection (the buttons go dark).

Using Imported Still Images

You can take a still image captured from input/output video or imported from a USB flash drive, assign it to channel 1 or 8, and output it in the same way as video. You can also use it as a source for DSK compositing (p. 22).

You can save up to eight still images in the unit.

- * Sample materials are stored in this unit (STILL 1) by factory default.

 To overwrite or delete the sample materials, revert the unit to its original state by performing a factory reset (p. 64).
- * When still images are saved in the unit, startup takes longer time according to image size and the number of still images saved.

Capturing a Still Image from Input/Output Video

This captures a still image from input/output video and saves it in the unit.

NOTE

• All audio stops during still-image capture.

You can make the audio keep playing while you capture images if you set the save method for still images to "temporarily save". With this setting, the imported still image is deleted when the power is turned off.

Use the [MENU] button \rightarrow "STILL IMAGE" \rightarrow and set "SAVE TO INTERNAL STORAGE" to "DISABLE".

 Depending on the format of the input video, completion of still-image capture might take some time.

1. Press the [CAPTURE IMAGE] button to turn on (lit).

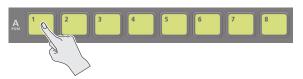




The monitor shows a list of still images (STILL 1–8). The Cross-point A [1]–[8] buttons blink yellow.

2. Press a Cross-point A [1]–[8] button to select a savedestination (STILL 1–8) for the captured still image.

* If you decide to cancel, press the [EXIT] button.



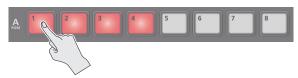
- When you select the save-destination for the still image, the list of still images changes to a list of video inputs (HDMI 1–8).
- The Cross-point A buttons of channels that are inputting video and the [CUT] button blink red.

3. Press a button that is blinking red to capture a still image.

* If you decide to cancel, press the [EXIT] button.

If you press a Cross-point A [1]-[8] button

The still image is captured from the video that is being input to the channel whose button you pressed.



If you press the [CUT] button

The still image is captured from the PGM (final output) video.



- When you execute capture, the list of input video changes to a list of still images.
- * Do not turn off the power while the "PLEASE WAIT" message is shown.

4. When the display indicates "COMPLETE", press the [EXIT] button to exit the operation.

MEMO

When you have captured from copyright-protected (HDCP) video, the created still image is treated the same way as HDCP applied video.

The still image is switched between displayed and hidden by turning HDCP on and off (p. 10).

Note, however, that when HDCP is switched from off to on, the still image is reloaded from where it's saved in memory, and so the still image might take some time to display.

Importing a Still Image from a USB Flash Drive

This imports into the unit a still image saved on a USB flash drive.

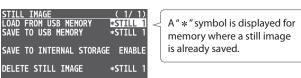
Supported still-image formats and resolutions

	Bitmap file (.bmp), 24-bit color, uncompressed
	PNG file (.png), 24-bit color
Format	* Alpha channel supported
	JPEG file (.jpg, .jpeg), 24-bit color
Resolution	In conformity with system format (p. 8)
F-1	No more than 28 single-byte alphanumeric characters
File name	* Be sure to append the file extension.

Importing a still image

NOTE

- Large-size still-image files might take some time to import.
- When you're using a USB flash drive for the first time, be sure to format it on the V-8HD (p. 60).
- Depending on the USB flash drive, recognition of the flash drive might take some time.
- 1. Save the still image in the root directory of the USB flash drive.
- 2. Connect the USB flash drive containing the saved still image to the USB MEMORY port.
- 3. Press the [MENU] button → "STILL IMAGE" → select "LOAD FROM USB MEMORY", and press the [VALUE] knob.

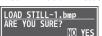


4. Use the [VALUE] knob to select the still image savedestination (STILL 1–8), and then press the [VALUE] knob.

The names of the files on the USB flash drive are displayed on this screen.

5. Select the still image file you want to import, and press the [VALUE] knob.

A confirmation message appears.



- * If you decide to cancel, press the [EXIT] button.
- 6. Use the [VALUE] knob to select "YES", and press the [VALUE] knob.

The still image is imported into the unit.

7. Press the [MENU] button to guit the menu.

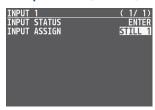
Assigning Still Images to Channel 1–8

Here's how a still image saved in this unit (STILL 1–8) can be assigned to channels 1–8.

Press the [MENU] button → "VIDEO INPUT" →
select "INPUT 1"-"INPUT 8 (SCALER)", and press the
[VALUE] knob.



- Use the [VALUE] knob to select "INPUT ASSIGN", and press the [VALUE] knob.
- 3. Use the [VALUE] knob to select "STILL 1"-"STILL 8", and press the [VALUE] knob.



4. Press the [MENU] button to guit the menu.

MEMO

- By holding down the [EXIT] button and pressing a Cross-point
 A or B [1]–[8] button, you can switch between still images STILL
 1–8 and select the still image that is assigned to the channel
 whose button you pressed.
- You can use the USER [1] or [2] button to output the specified still image.

This lets you directly output a still image to PGM and PVW without assigning it to a channel.

For details on this setting, refer to "Assigning the Functions of the USER [1] [2] Buttons" (p. 63).

 You can use the [OUTPUT FADE] knob to output a specified still image.

This lets you directly output a still image to PGM and PVW without assigning it to a channel.

For details on this setting, refer to "Specifying the function of the [OUTPUT FADE] knob" (p. 33).

 You can use a footswitch or expression pedal to output a specified still image. This lets you directly output a still image to PGM and PVW without assigning it to a channel.

For details on this setting, refer to the following.

- "Using a Footswitch" (p. 61)
- "Using an Expression Pedal" (p. 62)

Deleting a Still Image

Here's how to delete the still image that's saved in the unit.

1. Press the [MENU] button → "STILL IMAGE" → select "DELETE STILL IMAGE", and press the [VALUE] knob.



Use the [VALUE] knob to select the still image you want to delete, and press the [VALUE] knob.

A confirmation message appears.



- * If you decide to cancel, press the [EXIT] button.
- 3. Use the [VALUE] knob to select "YES", and press the [VALUE] knob.

The still image is deleted. When the operation is finished, the message "COMPLETE" appears.

- * Do not turn off the power while the "PLEASE WAIT" message is shown.
- 4. Press the [MENU] button to quit the menu.

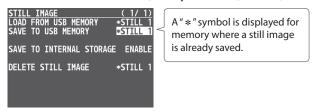
Saving a Still Image to a USB Flash Drive

Here's how a still image captured from the input/output video (p. 29) can be saved to a USB flash drive.

* An image captured while HDCP is ON cannot be saved.

Saving a new still image file

- Connect the USB flash drive to the USB MEMORY port.
- Select the [MENU] button → "STILL IMAGE" →
 "SAVE TO USB MEMORY", and press the [VALUE] knob.



3. Use the [VALUE] knob to select the memory (STILL 1–8) for the still image that you want to save, and press the [VALUE] knob.

The SAVE STILL IMAGE screen appears.

- 4. Use the [VALUE] knob to select "NEW FILE...", then press the [VALUE] knob.
- 5. Use the [VALUE] knob to select the FILE TYPE, then press the [VALUE] knob.



- 1 Use the [VALUE] knob to Select the file format (BITMAP, PNG, JPEG).
- Press the [VALUE] knob.
- 6. Enter a file name.
- * You can enter a text string of up to 16 characters in length.



1 Use the [VALUE] knob to move the cursor.

Pressing the [EXIT] button deletes the character at the cursor location.

- Press the [VALUE] knob to highlight the character at the cursor location.
- Use the [VALUE] knob to change the character, and press the [VALUE] knob.

7. When you finish entering the name, use the [VALUE] knob to select "SAVE", then press the [VALUE] knob.

A confirmation message appears.



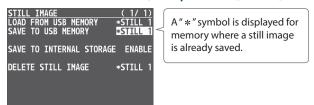
- * If you decide to cancel, press the [EXIT] button.
- 8. Use the [VALUE] knob to select "YES", then press the [VALUE] knob.

The still image is written to the USB flash drive.

9. Press the [MENU] button to quit the menu.

Overwrite-saving a still image file

- Connect the USB flash drive to the USB MEMORY port.
- 2. Select the [MENU] button → "STILL IMAGE" → "SAVE TO USB MEMORY", and press the [VALUE] knob.



3. Use the [VALUE] knob to select the memory (STILL 1–8) for the still image that you want to save, and press the [VALUE] knob.

The SAVE STILL IMAGE screen appears.

4. Use the [VALUE] knob select the file to overwrite, and press the [VALUE] knob.

A confirmation message appears.



- * If you decide to cancel, press the [EXIT] button.
- * If you long-press the [VALUE] knob, the edit screen opens with the file name and file format preserved.
- 5. Press the [VALUE] knob.

The file (.V08) is newly saved on the USB flash drive.

6. Press the [MENU] button to quit the menu.

Freezing Input Video (Freeze)

This temporarily pauses the incoming video.

You can apply transition effects and visual effects during a video freeze.

Setting the freeze mode

There are two freeze modes: "ALL" and "SELECT".

* With the factory settings, "ALL" is selected.

Mode	Explanation
ALL	Freezes all video that is being input.
SELECT	Freezes only the specified input video.

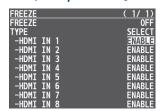
1. Press the [MENU] button → "FREEZE" → select "TYPE", and press the [VALUE] knob.



Use the [VALUE] knob to select "ALL" or "SELECT", and press the [VALUE] knob.

If "SELECT" is selected

Use the [VALUE] knob to select "HDMI IN 1"-"HDMI IN 8", and press the [VALUE] knob.



4. Use the [VALUE] knob to select "ENABLE" or "DISABLE", and press the [VALUE] knob.

Value	Explanation
ENABLE	The input video freezes.
DISABLE	The input video does not freeze.

Applying a Fade to the Output Video (Output Fade)

You can apply a fade to the output video.

This lets you make the main output video fade to a black (or white) picture at times when you want to suppress video output, such as during intervals in a presentation, event or band performance.

Applying a Fade-out

 Turn the [OUTPUT FADE] knob all the way clockwise or counterclockwise.



Turning the [OUTPUT FADE] knob clockwise performs a fade-out to white, and turning the knob counterclockwise performs a fade-out to black (factory setting).

Applying a fade makes the indicators to the left or right of the knob flash.

Applying a Fade-in

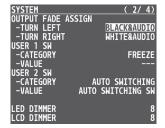
 Return the [OUTPUT FADE] knob to its center position.

The indicator stops flashing and lights up steadily, and output starts.

Specifying the function of the [OUTPUT FADE] knob

You can assign the following functions to the [OUTPUT FADE] knob.

- Fade the output video.
- Adjusts the volume of the output audio.
- Output a specified still image.
- Press the [MENU] button → "SYSTEM" → select OUTPUT FADE ASSIGN "TURN LEFT" or "TURN RIGHT", and then press the [VALUE] knob.



2. Use the [VALUE] knob to select the function of the [OUTPUT FADE] knob, and then press the [VALUE] knob.

Value	Explanation
BLACK	Fade out to black.
WHITE	Fade out to white.
AUDIO	Adjust the volume of the output audio.
BLACK&AUDIO	Simultaneously apply the fade-to-black and the output audio volume adjustment functions.
WHITE&AUDIO	Simultaneously apply the fade-to-white and the output audio volume adjustment functions.
STILL 1–8 OUTPUT	Output the specified still image.

Audio Operations

Adjusting the Volume Level

Here's how to adjust the volume of the audio input and audio output.

 Press the [MENU] button → "AUDIO INPUT" → select "HDMI IN 1"-"HDMI IN 8" or "AUDIO IN", and press the [VALUE] knob.



- Use the [VALUE] knob to select "INPUT LEVEL", and press the [VALUE] knob.
- 3. Use the [VALUE] knob to adjust the input volume, and press the [VALUE] knob.
- 4. Press the [MENU] button.
- 5. Press the [MENU] button → "AUDIO OUTPUT" → "MASTER OUTPUT" → select "OUTPUT LEVEL", and press the [VALUE] knob.



- 6. Use the [VALUE] knob to adjust the output volume, and press the [VALUE] knob.
- 7. Press the [MENU] button to quit the menu.

Level meter indication

The audio level meter is shown in each section of the multi-view monitor.

The level meter illumination lets you check whether the volume is adjusted appropriately.



Indicator	Status
Red	Lights up at 0 dB or higher. It indicates an excessive volume level.
Yellow	Lights up at -20 to -1 dB. It indicates an appropriate volume level.
Green	Lights up at -50 to -21 dB. It indicates a too-low volume level.

f If the volume level of speaker output is unsuitable even when the volume level on the V-8HD has been adjusted so that level meter light up in yellow, adjust the volume for the speakers and amplifiers. Using "OUTPUT LEVEL" to make adjustments can sometimes result in distortion or poorer sound quality.

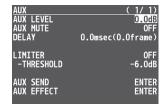
MEMO

- If the OUTPUT FADE ASSIGN (p. 33) setting is "BLACK&AUDIO" or "WHITE&AUDIO", using the [OUTPUT FADE] knob to fade-in/ out the output video will simultaneously fade-in/out the output audio as well.
- If the OUTPUT FADE ASSIGN (p. 33) setting is "AUDIO", you
 can use the [OUTPUT FADE] knob to adjust only the output
 volume
- You can output a test tone that is useful when making volume adjustments.

In the SYSTEM menu item "TEST TONE" (p. 87), specify the test tone that you want to output.

Adjusting the output volume of the AUX bus

Press the [MENU] button → "AUDIO OUTPUT" →
"AUX" → select "AUX LEVEL", and press the [VALUE]
knob.



- 2. Use the [VALUE] knob to adjust the output volume, and press the [VALUE] knob.
- 3. Press the [MENU] button to quit the menu.

Applying Effects to Input Audio

You can modify the tonal character by applying effects to the audio input.

Using an effect preset

The V-8HD is equipped with effects that are adjusted for specific environments. These are called "effect presets".

The effect presets are created using a combination of three effects (high-pass filter, compressor, equalizer).

Simply by selecting an effect preset, you can easily apply an effect that's appropriate for your situation.

MEMO

- When you switch presets, the settings of each effect are overwritten.
- If you want to make fine adjustments to a preset, use the AUDIO INPUT menu to edit the high-pass filter, compressor, and equalizer settings.

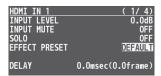
Since the noise gate (an effect that eliminates noise) is not included in the presets, you'll need to make separate settings for it.

For details on the effects, refer to p. 75.

1. Press the [MENU] button → "AUDIO INPUT" → select "HDMI IN 1"-"HDMI IN 8" or "AUDIO IN", and press the [VALUE] knob.



2. Use the [VALUE] knob to select "EFFECT PRESET", and press the [VALUE] knob.



3. Use the [VALUE] knob to select the effect preset, and press the [VALUE] knob.

Value	Explanation
DEFAULT	For line input (default setting)
MEETING	For meetings
INTERVIEW	For interviews
AMBIENT MIC	For capturing ambient sound
WINDY FIELD	For capturing ambient sound in a windy area
DE-ESS & POPS SOFT	For reducing sibilants
DE-ESS & POPS HARD	For reducing plosives

A confirmation message appears.



* If you decide to cancel, press the [EXIT] button.

4. Use the [VALUE] knob to select "OK", and press the [VALUE] knob.

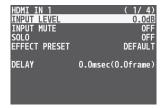
The preset is loaded. When the operation is finished, the message "COMPLETE" appears.

5. Press the [MENU] button to guit the menu.

Correcting a time difference between video and audio (delay)

Here's how you can correct a time difference between the video and audio by delaying the output of the input audio.

 Press the [MENU] button → "AUDIO INPUT" → select "HDMI IN 1"-"HDMI IN 8" or "AUDIO IN", and press the [VALUE] knob.



Use the [VALUE] knob to select "DELAY", and press the [VALUE] knob.

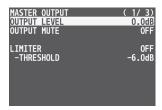


- Use the [VALUE] knob to adjust the time by which the audio is delayed, and press the [VALUE] knob.
- Delay the audio output so that the audio and video match.

Applying Effects to Output Audio

You can modify the tonal character by applying effects to the audio output.

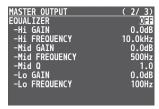
- * You can apply a limiter (LIMITER) to the audio of the AUX bus.
- Press the [MENU] button → "AUDIO OUTPUT" → select "MASTER OUTPUT" or "AUX", and press the [VALUE] knob.



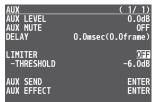
(for AUX)

AUX	(1/ 1)
AUX LEVEL	0.0dB
AUX MUTE	OFF
Delay	0.0msec(0.0frame)
LIMITER	OFF
-THRESHOLD	-6.0dB
AUX SEND	ENTER
AUX EFFECT	ENTER

2. Use the [VALUE] knob to select an effect menu item, and then press the [VALUE] knob.



(for AUX)



- 3. Use the [VALUE] knob to change the value, and press the [VALUE] knob.
- 4. Press the [MENU] button to quit the menu.

Delay (DELAY)

* AUX only

This outputs audio with a delay.

Delaying audio output lets you align the output timing of video and audio.

Menu item	Explanation
DELAY	This adjusts the delay time for output audio.

LIMITER

This limits the output volume so that is does not exceed the set level.

Menu item	Explanation
LIMITER	Turn the limiter on or off.
	Adjusts the level that becomes the threshold at which the limiter is applied.
THRESHOLD	Compression is applied to audio that exceeds the threshold. The volume level of audio that is output is limited so as to stay to below the threshold.

EQUALIZER

This limits the output volume so that is does not exceed the set level.

Menu item	Explanation
EQUALIZER	Turns the equalizer on/off.
Hi GAIN	Boosts or attenuates the high band.
Hi FREQUENCY	Specifies the center frequency when changing the tone quality in the high band.
Mid GAIN	Boosts or attenuates the middle band.
Mid FREQUENCY	Specifies the center frequency when changing the tone quality in the middle band.
Mid Q	Adjusts the width of the frequency band when boosting or attenuating the middle band.
Lo GAIN	Boosts or attenuates the low band.
Lo FREQUENCY	Specifies the center frequency when changing the tone quality in the low band.

MULTI BAND COMPRESSOR

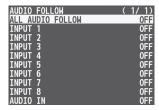
This applies separate compressors in individual frequency bands.

Menu item	Explanation
MULTI BAND COMPRESSOR	Turns the multi-band compressor on/off.
Hi THRESHOLD Mid THRESHOLD Lo THRESHOLD	Specify the individual levels that become the thresholds for the high, midrange, and low bands at which the compressor is applied. Compression is applied to audio that exceeds the threshold.
Hi RATIO Mid RATIO Lo RATIO	Specify the amount of compression applied in the high, midrange, and low bands. The state in which no compression is applied is defined as "1".

Interlinking Audio Output to Video Switching (Audio Follow)

You can associate audio with a video switch so that when the video is switched, the specified audio alone is output automatically, and other audio is automatically muted.

- 1. Follow the procedure in "Adjusting the Volume Level" (p. 34) to adjust to the volume level you want to output.
- Press the [MENU] button → select "AUDIO FOLLOW", and press the [VALUE] knob.



3. Use the [VALUE] knob to select the video channel you want to use with Audio Follow, and press the [VALUE] knob.

If you select "ALL AUDIO FOLLOW", all input channels are used.

4. Use the [VALUE] knob to select "ON", and press the [VALUE] knob.

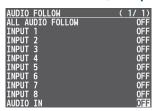
Value	Explanation
ON	Enables the Audio Follow feature. Muting is performed automatically when video on another
	channel is output.
OFF	Disables the Audio Follow feature.

- 5. Press the [MENU] button to quit the menu.
- 6. Switch the video.

On video channels where Audio Follow is on, audio is automatically muted when video on other channels is output.

Applying audio follow to the audio from AUDIO IN

 Press the [MENU] button → "AUDIO FOLLOW" → select "AUDIO IN", and press the [VALUE] knob.



Use the [VALUE] knob to select the video channel you want to use with Audio Follow, and press the [VALUE] knob.

Value	Explanation	
INPUT 1–8	Specify the input channels that use audio follow for the input audio.	
	The AUDIO IN audio is muted for input channels other than those specified.	
OFF	Disables the Audio Follow feature.	

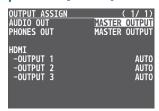
Outputting AUX-bus Audio

The V-8HD has two types audio buses: MASTER OUTPUT and AUX. You can assign a desired bus to each output connector.

Audio bus	Explanation
MASTER OUTPUT	All input audio is mixed and output (master output).
	This mixes and outputs only the input audio that is sent to the AUX bus. This allows you to output audio that is different than the master output.
AUX	For example, in a live event, you might output a mix of all audio inputs, while separately outputting a mix of only specific audio inputs (the AUX bus) for recording or streaming.

Assigning the AUX Bus

Press the [MENU] button → "AUDIO OUTPUT" →
"OUTPUT ASSIGN" → slect the output jack, and
press the [VALUE] knob.



2. Use the [VALUE] knob to select "AUX" or "AUTO", and press the [VALUE] knob.

Value	Explanation	
	The audio bus automatically switches according to the video bus assignment (p. 10).	
AUTO (*1)	Video bus	Audio bus
	Others besides AUX	MASTER OUTPUT
	AUX	AUX
MASTER OUTPUT	Output the audio of the MASTER OUTPUT bus.	
AUX	Output the audio of the AUX bus.	

(*1) For "HDMI OUTPUT 1"-"HDMI OUTPUT 3" only.

3. Press the [MENU] button to guit the menu.

Sending Audio to the AUX Bus

Press the [MENU] button → "AUDIO OUTPUT" → "AUX"
 → select "AUX SEND", and press the [VALUE] knob.

The AUX SEND menu appears.



- 2. Use the [VALUE] knob to select the input audio, and press the [VALUE] knob.
- * You can select HDMI IN 1–8 by setting "AUX SEND VIDEO" to "MANUAL".

When this is set to "AUTO", the audio is automatically sent to the AUX bus in tandem with the AUX bus video selection.

- 3. Use the [VALUE] knob to adjust the amount that is sent to the AUX bus, and press the [VALUE] knob.
- 4. Press the [MENU] button to quit the menu.

Setting the character of the sound

You can select whether to send either the original audio or the audio processed with effects to the AUX bus.

Press the [MENU] button → "AUDIO OUTPUT" → "AUX"
 select "AUX EFFECT" and press the [VALUE] knob.

The AUX EFFECT menu appears.

AUX EFFECT	(1/ 1)
HDMI IN 1	PRE FADER
HDMI IN 2	PRE FADER
HDMI IN 3	PRE FADER
HDMI IN 4	PRE FADER
HDMI IN 5	PRE FADER
HDMI IN 6	PRE FADER
HDMI IN 7	PRE FADER
HDMI IN 8	PRE FADER
AUDIO IN	PRE FADER
AUDIO IN	-INFdB

- 2. Use the [VALUE] knob to select the input audio, and press the [VALUE] knob.
- 3. Use the [VALUE] knob to select "DRY", "PRE FADE", or "POST FADER", and press the [VALUE] knob.

Value	Explanation	
DRY	Sends the source audio with no effects applied.	
PRE FADER	Sends the effect-applied audio. The send volume is constant, regardless of the volume (INPUT LEVEL).	
POST FADER	Sends the effect-applied audio. The send volume can be changed by adjusting the volume (INPUT LEVEL).	

Silencing Only Specific Audio (Mute)

Here's how to temporarily silence specific input audio or output audio (the mute function).

Muting input audio

1. Press the [MENU] button → "AUDIO INPUT" → select "HDMI IN 1"—"HDMI IN 8" or "AUDIO IN", and press the [VALUE] knob.



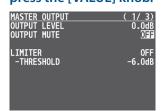
2. Use the [VALUE] knob to select "INPUT MUTE", and press the [VALUE] knob.



- 3. Use the [VALUE] knob to select "ON", and press the [VALUE] knob.
- 4. Press the [MENU] button to guit the menu.

Muting output audio

1. Press the [MENU] button → "AUDIO OUTPUT" → "MASTER OUTPUT" → select "OUTPUT MUTE", and press the [VALUE] knob.



- 2. Use the [VALUE] knob to select "ON", and press the [VALUE] knob.
- 3. Press the [MENU] button to quit the menu.

Muting AUX-bus Audio

1. Press the [MENU] button → "AUDIO OUTPUT" → "AUX" → select "AUX MUTE", and press the [VALUE] knob.



- 2. Use the [VALUE] knob to select "ON", and press the [VALUE] knob.
- 3. Press the [MENU] button to quit the menu.

Checking a Specific Audio Input (Solo)

Here's how you can temporarily monitor a specific audio input via the headphones (solo function).

- * The solo function applies to the headphone output. It does not affect output other than the headphones.
- 1. Press the [MENU] button → "AUDIO INPUT" → select "HDMI IN 1"-"HDMI IN 8" or "AUDIO IN", and press the [VALUE] knob.



2. Use the [VALUE] knob to select "SOLO", and press the [VALUE] knob.



- 3. Use the [VALUE] knob to select "ON", and press the [VALUE] knob.
- 4. Press the [MENU] button to quit the menu.

Other Features

Saving/Recalling Settings (Preset Memory)

You can save the current settings, including the video/audio settings and the state of the operating panel, in preset memory and recall those settings for use when necessary. The V-8HD is provided with 24 preset memories.

* The settings are saved in preset memory as demo data by factory default.

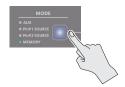
About the last memory function

The V-8HD has a built-in Last Memory function. Last Memory is a function that saves the state of the unit that is in effect immediately before power-down, and automatically restores the state at the next startup. The Last Memory function is enabled by default. If you want the unit to recall a specific preset memory when it starts up, use the PRESET MEMORY menu item "START UP" to specify the preset memory number.

Saving to a Preset Memory

Preset memory 1–8

1. Use the [MODE] button to select "MEMORY".



Long-press the MEMORY button for the number where you want to save the settings.



All of the MEMORY [1]–[8] buttons are briefly illuminated in light blue, and the current settings are saved in the selected preset memory.



Preset memory 9–24

 Press the [MENU] button and select the memory number from "PRESET MEMORY" → "SAVE", and press the [VALUE] knob.

MEMO

- If you change [MENU] button → "PRESET MEMORY" →
 "NUMBER OF MEMORY SW "from 8 to 24, the A [1]–[8] buttons
 and B [1]–[8] buttons operate respectively as MEMORY 9–16
 buttons and MEMORY 17–24 buttons when MODE is MEMORY.
- You can prohibit settings from being saved or initialized (p. 42) to protect the preset memories.
 Use the [MENU] button → "PRESET MEMORY" → and set

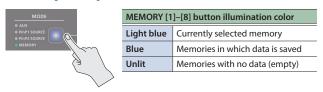
"MEMORY PROTECT" to "ON".

• Since settings related to the system, freeze and so on are common to the entire unit, they are not saved in a memory. For details, refer to "SAVE" in "11: PRESET MEMORY" (p. 78).

Recalling a Preset Memory

Preset memory 1–8

Use the [MODE] button to select "MEMORY".



2. Press the MEMORY button for the number whose setting you want to recall.



The settings are recalled.

Preset memory 9–24

 Press the [MENU] button and select the memory number from "PRESET MEMORY" → "LOAD", and press the [VALUE] knob.

MEMO

When recalling a preset memory, you can specify the individual menu items that will be included in the recalled preset memory.

To make this setting, use the [MENU] button → "PRESET MEMORY"
→ "LOAD PARAMETER".

Initializing a Preset Memory

You can initialize the settings of a specific preset memory and completely erase its settings.

1. Press the [MENU] button → "PRESET MEMORY" → select "INITIALIZE", and press the [VALUE] knob.



2. Use the [VALUE] knob to select the preset memory (MEMORY 1–24) that you want to initialize, and press the [VALUE] knob.

A confirmation message appears.



- * If you decide to cancel, press the [EXIT] button.
- 3. Use the [VALUE] knob to select "YES", and press the [VALUE] knob.

The preset memory is initialized. When the operation is finished, the message "COMPLETE" appears.

4. Press the [MENU] button to quit the menu.

MEMO

About the preset memory demo data

Once you perform a factory reset (p. 64), any demo data you have edited or deleted is restored to its factory default settings.

Renaming a Preset Memory

Here's how to rename a preset memory. You can assign a name of up to 8 characters to each memory.

 Press the [MENU] button → "PRESET MEMORY" → select "NAME EDIT", and press the [VALUE] knob.



2. Use the [VALUE] knob to select the preset memory (MEMORY 1–24) that you want to rename, and then press the [VALUE] knob.

The PRESET MEMORY NAME screen appears.



3. Use the [VALUE] knob to select the item that you want to execute, and then press the [VALUE] knob.

Item Explanation	
CLOSE	Saves the memory name and closes the PRESET MEMORY NAME screen.
INIT	Initializes the memory name.
(Memory name)	Edits the memory name (to step 4).

- 4. Input the memory name.
- * You can input up to 8 characters.



Use the [VALUE] knob to move the cursor.

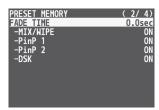
If you press the [EXIT] button, the character at the cursor location is deleted.

- Press the [VALUE] knob to highlight the character at the cursor location.
- (S) Use the [VALUE] knob to change the character, and then press the [VALUE] knob.
- 5. When you have finished inputting the name, use the [VALUE] knob to select "CLOSE", and then press the [VALUE] knob.
- * If you decide to cancel, press the [EXIT] button.
- **6.** Press the [MENU] button to quit the menu.

Specifying the Preset Memory Switching Effect

Here's how to apply MIX/WIPE or PinP/DSK fade when switching preset memories.

 Press the [MENU] button → "PRESET MEMORY" → select "FADE TIME".



2. Use the [VALUE] knob to select the item that you want to set, and then press the [VALUE] knob.

Menu item	Explanation	
FADE TIME	Specifies the time of the transition when loading a preset memory.	
MIX/WIPE		
PinP 1	Turns the switching effect on/off.	
PinP 2		
DSK		

- 3. Use the [VALUE] knob to change the setting, and then press the [VALUE] knob.
- 4. Press the [MENU] button to quit the menu.

Saving Preset Memories to a USB Flash Drive

You can group together the preset memories (1–24) into a single file (.V08preset) and save this to a USB flash drive connected to the USB MEMORY port. You can access saved preset files on the USB flash drive and load them into the unit to use as needed.

NOTE

- When using a USB flash drive for the first time, you must format it using the V-8HD (p. 60).
- Depending on the USB flash drive, recognition of the flash drive might take some time.

Saving

Saving a new file

- Connect the USB flash drive to the USB MEMORY port.
- Press the [MENU] button → "PRESET MEMORY" →
 select "SAVE TO USB MEMORY", and press the
 [VALUE] knob.



The preset files on the USB flash drive are shown as a list.

3. Use the [VALUE] knob to select "NEW FILE...", and press the [VALUE] knob.



- 4. Enter the file name.
- * You can enter a text string of up to 16 characters in length.



Use the [VALUE] knob to move the cursor.

Pressing the [EXIT] button deletes the character at the cursor location.

- Press the [VALUE] knob to highlight the character at the cursor location.
- Use the [VALUE] knob to change the character, and then press the [VALUE] knob.

5. When you finish entering the name, use the [VALUE] knob to select "SAVE", and press the [VALUE] knob.

A confirmation message appears.



- * If you decide to cancel, press the [EXIT] button.
- Use the [VALUE] knob to select "YES", and press the [VALUE] knob.

This saves the preset file (.V08preset) to the USB flash drive. When the operation is finished, the message "COMPLETE" appears.

7. Press the [MENU] button to close the menu.

Overwrite-saving a file

- Connect the USB flash drive to the USB MEMORY port.
- Press the [MENU] button → "PRESET MEMORY" → select "SAVE TO USB MEMORY", and press the [VALUE] knob.

The preset files on the USB flash drive are shown as a list.

3. Use the [VALUE] knob select the preset file that you want to overwrite, and press the [VALUE] knob.

A confirmation message appears.



- * If you decide to cancel, press the [EXIT] button.
- 4. Use the [VALUE] knob to select "YES", and press the [VALUE] knob.

The preset file is overwritten. When the operation is finished, the message "COMPLETE" appears.

Loading

Here's how to load the preset memory settings that are saved on a USB flash drive. Doing this overwrites the preset memory (1–24) settings.

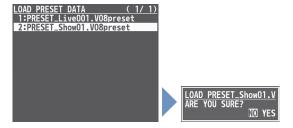
 Press the [MENU] button → "PRESET MEMORY" → select "LOAD FROM USB MEMORY", and press the [VALUE] knob.



The preset files on the USB flash drive are shown as a list.

2. Use the [VALUE] knob to select the macro settings file that you want to load, and press the [VALUE] knob.

A confirmation message appears.



- * If you decide to cancel, press the [EXIT] button.
- 3. Use the [VALUE] knob to select "YES", and press the [VALUE] knob.

The preset memory is recalled. When the operation is finished, the message "COMPLETE" appears.

Recording Multiple Operations to Automatically Execute (Macros)

This feature lets you record multiple operations and then automatically execute them (as a macro function). You only need to record the macro operation beforehand and then select the macro to perform the series of operations you recorded. This function is useful for executing exactly the same operations, even when a different operator is using the unit.

You can create up to 100 macros.

Recording a Macro

A single macro can contain up to 10 different operations. You can include a macro within another macro, to make a single macro execute a more complicated set of functions.

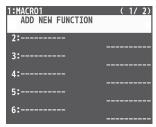
- * The demo macro data in this unit that's available by factory default includes some recorded operations.
- Press the [MENU] button → "MACRO" → select "LIST EDIT", and press the [VALUE] knob.



2. Use the [VALUE] knob to select the macro (1–100) you want to edit, and press the [VALUE] knob.

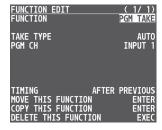
The list of operations recorded in the macro is shown.

3. Use the [VALUE] knob to select "ADD NEW FUNCTION", and press the [VALUE] knob.



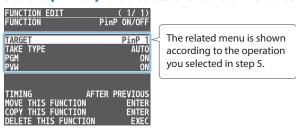
The FUNCTION EDIT menu appears.

4. Use the [VALUE] knob to select "FUNCTION", and press the [VALUE] knob.



- 5. Select the operation to record to the macro using the [VALUE] knob, and then press the [VALUE] knob.
- * For details on the operations you can record, see "FUNCTION" in "FUNCTION EDIT" (p. 80).

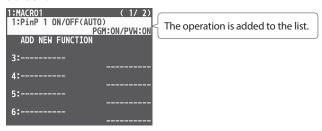
6. Use the [VALUE] knob to set the related menu item.



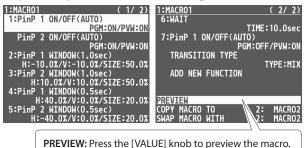
- Use the [VALUE] knob to select "TIMING", and press the [VALUE] knob.
- Use the [VALUE] knob to set the timing at which the operation is executed, and then press the [VALUE] knob.

Value	Explanation	
AFTER PREVIOUS	The function is executed after the preceding one. The next sequential list number is used.	
SAME AS PREVIOUS	Executes the operation at the same time as the preceding one. The same list number as the previous operation is used.	

- * If you place a function at the beginning of the macro, setting the timing has no effect.
- Press the [EXIT] button to return to the previous screen.



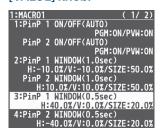
10. Repeat steps 3–9 to finish making the macro.



Editing a macro

You can edit the contents of a function, change the order in which it is executed, or copy/delete a function either while creating a macro or after the macro is finished.

1. In step 3 of "Renaming a Macro" (p. 50), select the function you want to edit in the list, and press the [VALUE] knob.



The FUNCTION EDIT menu appears.

2. Edit, move, copy or delete the function.

Editing the contents of a function

 Follow steps 4–9 in "Recording a Macro" (p. 46) to edit the contents of the function.

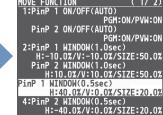


Moving a function

 Use the [VALUE] knob to select "MOVE THIS FUNCTION", and press the [VALUE] knob.

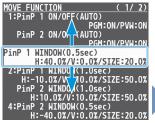
MOVE FUNCTION screen appears.





Use the [VALUE] knob to select where you want to move the function, and then press the [VALUE] knob.

A confirmation message appears.





- * If you decide to cancel, press the [EXIT] button.
- Use the [VALUE] knob to select "YES", and press the [VALUE] knob.

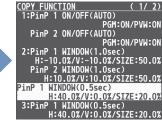
 The function is moved, and the message "COMPLETE" appears.

Copying a function

- * Copying is disabled if the number of recorded functions have reached the limit (10).
- 1 Use the [VALUE] knob to select "COPY THIS FUNCTION", and press the [VALUE] knob.

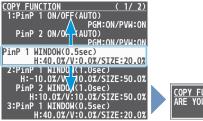
The COPY FUNCTION screen appears.





Use the [VALUE] knob to select where you want to copy the function to, and then press the [VALUE] knob.

A confirmation message appears.



- COPY FUNCTION
 ARE YOU SURE?
 NO YES
- * If you decide to cancel, press the [EXIT] button.
- (3) Use the [VALUE] knob to select "YES", and press the [VALUE] knob.

The function is copied, and the message "COMPLETE" appears.

Deleting a function

1 Use the [VALUE] knob to select "DELETE THIS FUNCTION", and press the [VALUE] knob.

A confirmation message appears.



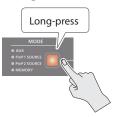


- * If you decide to cancel, press the [EXIT] button.
- 2 Use the [VALUE] knob to select "YES", and press the [VALUE] knob.
 The function is deleted, and the message "COMPLETE" appears.
 - 3. Press the [MENU] button to close the menu.

Executing a Macro

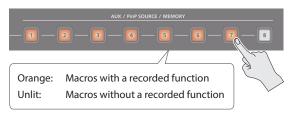
Using the buttons (Macro 1–10)

1. Long-press the [MODE] button to make it light up orange.



The AUX/PinP SOURCE/MEMORY [1]–[8] buttons function as macro selection buttons.

Press the AUX / PinP SOURCE / MEMORY button corresponding to the number of the macro you wish to execute.



This executes the macro.

Using the menus

1. Press the [MENU] button → "MACRO" → select "EXECUTE", and press the [VALUE] knob.



2. Use the [VALUE] knob to select the macro (1–100) that you want to execute, and press the [VALUE] knob.

A confirmation message appears.



- * If you decide to cancel, press the [EXIT] button.
- 3. Use the [VALUE] knob to select "YES", and press the [VALUE] knob.

The macro is executed.

4. Press the [MENU] button to close the menu.

MEMO

Using the cross-point buttons to select macros

When MODE is macro (the [MODE] button is lit orange), the cross-point buttons function as macro selection buttons.

Use the [MENU] button \rightarrow "MACRO" \rightarrow and set "NUMBER OF MACRO SW" to "24".

Changing the macro assigned to a button

You can change the macros assigned to the buttons.

From the [MENU] button \rightarrow "MACRO" \rightarrow "SW ASSIGN", specify a macro (1–100) to assign to the respective button, using the menu items shown below.

Menu item	Explanation	
MACRO 1-8	AUX / PinP SOURCE / MEMORY [1]–[8] buttons	
PGM/A 1-8 (*1)	Cross-point A [1]–[8] buttons	
PST/B 1-8 (*1)	Cross-point B [1]–[8] buttons	

(*1) This can be set if "NUMBER OF MACRO SW" is "24".

Copying Macro Settings

Here's how to copy the settings from one macro to another.

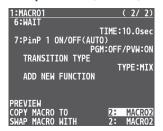
 Press the [MENU] button → "MACRO" → select "LIST EDIT", and press the [VALUE] knob.



2. Use the [VALUE] knob to select the copy source macro (1–100), and press the [VALUE] knob.

The list of operations recorded in the macro is shown.

3. Use the [VALUE] knob to select "COPY MACRO TO", and press the [VALUE] knob.



4. Use the [VALUE] knob to select the copy destination macro, and then press the [VALUE] knob.

A confirmation message appears.



- * If you decide to cancel, press the [EXIT] button.
- 5. Use the [VALUE] knob to select "YES", and press the [VALUE] knob.

The macro settings are copied. When the operation is finished, the message "COMPLETE" appears.

6. Press the [MENU] button to close the menu.

Swapping the Macro Settings

Here's how to swap settings between macros.

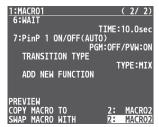
 Press the [MENU] button → "MACRO" → select "LIST EDIT", and press the [VALUE] knob.



2. Use the [VALUE] knob to select the swap source macro (1–100), and press the [VALUE] knob.

The list of operations recorded in the macro is shown.

3. Use the [VALUE] knob to select "SWAP MACRO WITH", and press the [VALUE] knob.



4. Use the [VALUE] knob to select the swap destination macro, and press the [VALUE] knob.

A confirmation message appears.



- * If you decide to cancel, press the [EXIT] button.
- 5. Use the [VALUE] knob to select "YES", and press the [VALUE] knob.

This swaps the settings of the macros. When the operation is finished, the message "COMPLETE" appears.

Initializing a Macro

You can initialize a macro and completely erase its settings.

 Press the [MENU] button → "MACRO" → select "INITIALIZE", and press the [VALUE] knob.



Use the [VALUE] knob to the macro you wish to select (ALL, 1–100), and press the [VALUE] knob.

A confirmation message appears.



- * If you decide to cancel, press the [EXIT] button.
- 3. Use the [VALUE] knob to select "YES", and press the [VALUE] knob.

The macro is initialized. When the operation is finished, the message "COMPLETE" appears.

4. Press the [MENU] button to close the menu.

MEMO

About the macro demo data

Once you perform a factory reset (p. 64), any demo data you have edited or deleted is restored to its factory default settings.

Renaming a Macro

Here's how to rename a macro.

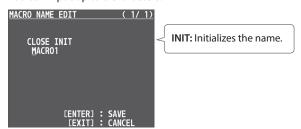
 Press the [MENU] button → "MACRO" → select "NAME EDIT", and press the [VALUE] knob.



2. Use the [VALUE] knob to select the macro (1–100) that you want to rename, and then press the [VALUE] knob.

The MACRO NAME EDIT screen appears.

- 3. Input the macro name.
- * You can input up to 8 characters.



1 Use the [VALUE] knob to move the cursor.

Pressing the [EXIT] button deletes the character at the cursor location.

- Press the [VALUE] knob to highlight the character at the cursor location.
- Use the [VALUE] knob to change the character, and then press the [VALUE] knob.
- 4. When you have finished inputting the name, use the [VALUE] knob to select "CLOSE", and then press the [VALUE] knob.



- * If you decide to cancel, press the [EXIT] button.
- 5. Press the [MENU] button to close the menu.

Saving/Loading the Macro Settings

You can group together the macro settings (1–100) into a single file (.RMC) and save it to a USB flash drive connected to the USB MEMORY port. You can access the saved macro setting file on the USB flash drive and load it into the unit for use when needed.

NOTE

- When using a USB flash drive for the first time, you must format it using the V-8HD (p. 60).
- Depending on the USB flash drive, recognition of the flash drive might take some time.

Saving

Saving a new file

- Connect the USB flash drive to the USB MEMORY port.
- Press the [MENU] button → "MACRO" → select "SAVE TO USB MEMORY", and press the [VALUE] knob.



The macro setting files in the USB flash drive are listed.

3. Use the [VALUE] knob to select "NEW FILE...", and press the [VALUE] knob.



- 4. Enter the file name.
- * You can enter a text string of up to 16 characters in length.



1 Use the [VALUE] knob to move the cursor.

Pressing the [EXIT] button deletes the character at the cursor location.

- Press the [VALUE] knob to highlight the character at the cursor location.
- Use the [VALUE] knob to change the character, and then press the [VALUE] knob.

5. When you finish entering the name, use the [VALUE] knob to select "SAVE", and press the [VALUE] knob.

A confirmation message appears.



- * If you decide to cancel, press the [EXIT] button.
- 6. Use the [VALUE] knob to select "YES", and press the [VALUE] knob.

The macro settings file (.RMC) is saved to the USB flash drive. When the operation is finished, the message "COMPLETE" appears.

7. Press the [MENU] button to close the menu.

Overwrite-saving a file

- Connect the USB flash drive to the USB MEMORY port.
- Press the [MENU] button → "MACRO" → select "SAVE TO USB MEMORY", and press the [VALUE] knob.

The macro setting files in the USB flash drive are listed.

3. Use the [VALUE] knob select the macro settings file that you want to overwrite, and press the [VALUE] knob.

A confirmation message appears.



- * If you decide to cancel, press the [EXIT] button.
- 4. Use the [VALUE] knob to select "YES", and press the [VALUE] knob.

The macro settings file is overwritten. When the operation is finished, the message "COMPLETE" appears.

Loading

Here's how to load the macro settings that are saved on a USB flash drive. Loading the settings overwrites the current settings for the macros (1–100).

 Press the [MENU] button → "MACRO" → select "LOAD FROM USB MEMORY", and press the [VALUE] knob.



The macro setting files in the USB flash drive are listed.

2. Use the [VALUE] knob to select the macro settings file that you want to load, and press the [VALUE] knob.

A confirmation message appears.



- * If you decide to cancel, press the [EXIT] button.
- 3. Use the [VALUE] knob to select "YES", and press the [VALUE] knob.

The macro settings are loaded. When the operation is finished, the message "COMPLETE" appears.

Combining Preset Memories and Macros for Operations (Sequencer)

The sequencer function lets you record functions such as recalling preset memories or macros, and then execute them in the order you specify.

This lets you recreate the desired functions like editing the screen layout or inserting a title, by preparing the functions in line with how the events progress and then simply pressing the [AUTO] button. This feature is useful for smoothly carrying out operations at the place where you're working.

Recording to the Sequencer

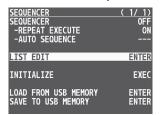
Three types of functions can be recorded in the sequencer, including recalling a preset memory, executing a macro and switching between final output videos. Create a list of the functions you want to execute in order.

A list can contain up to 1,000 functions.

MEMO

The demo data in this unit that's available by factory default includes a list of recorded functions. You can completely erase the contents of this list by initializing it (p. 58).

 Press the [MENU] button → "SEQUENCER" → select "LIST EDIT", and press the [VALUE] knob.



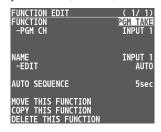
The list of operations recorded in the sequencer is shown.

Use the [VALUE] knob to select "ADD NEW FUNCTION", and press the [VALUE] knob.



The FUNCTION EDIT menu appears.

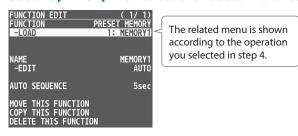
3. Use the [VALUE] knob to select "FUNCTION", and press the [VALUE] knob.



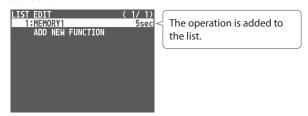
4. Use the [VALUE] knob to select the function to record to the sequencer, and then press the [VALUE] knob.

Value	Explanation
PGM TAKE	Switches the final output video.
PRESET MEMORY	Recalls a preset memory.
MACRO	Executes a macro.

5. Use the [VALUE] knob to set the related menu item.



Press the [EXIT] button to return to the previous screen.



7. Repeat steps 2–6 to finish making the list.



Editing a list

You can edit the contents of a function, change the order in which it is executed, or copy/delete a function while creating a list or after you've finished the list.

1. In step 2 of "Recording to the Sequencer" (p. 53), select the function you want to edit in the list, and press the [VALUE] knob.

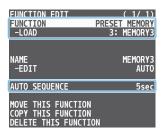
LIST EDIT	(1/ 1)
1:MEMORY2	5sec
2:MACRO1	5sec
3:MEMORY3	5sec
4:MACRO3	5sec
5:MACRO4	5sec
6:MACRO7	5sec
7:MACRO8	5sec
8:MACRO20	5sec
ADD NEW FUNCTION	

The FUNCTION EDIT menu appears.

2. Edit, move, copy or delete the function.

Editing the contents of a function

Follow steps 3–6 in "Recording to the Sequencer" (p. 53) to edit the contents of the function.



Moving a function

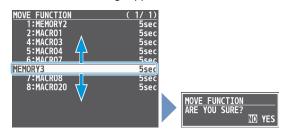
 Use the [VALUE] knob to select "MOVE THIS FUNCTION", and press the [VALUE] knob.

The MOVE FUNCTION screen appears.



Use the [VALUE] knob to select where you want to move the function, and then press the [VALUE] knob.

A confirmation message appears.



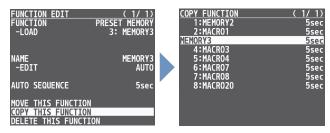
- * If you decide to cancel, press the [EXIT] button.
- Use the [VALUE] knob to select "YES", and press the [VALUE] knob.

The function is moved, and the message "COMPLETE" appears.

Copying a function

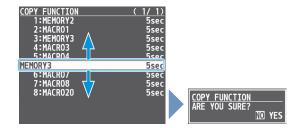
1 Use the [VALUE] knob to select "COPY THIS FUNCTION", and press the [VALUE] knob.

The COPY FUNCTION screen appears.



Use the [VALUE] knob to select where you want to copy the function to, and then press the [VALUE] knob.

A confirmation message appears.



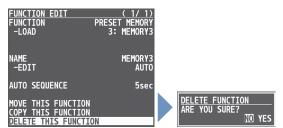
- * If you decide to cancel, press the [EXIT] button.
- 3 Use the [VALUE] knob to select "YES", and press the [VALUE]

The function is copied, and the message "COMPLETE" appears.

Deleting a function

 Use the [VALUE] knob to select "DELETE THIS FUNCTION", and press the [VALUE] knob.

A confirmation message appears.



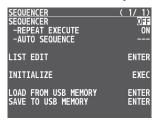
- * If you decide to cancel, press the [EXIT] button.
- Use the [VALUE] knob to select "YES", and press the [VALUE] knob.

The function is deleted, and the message "COMPLETE" appears.

Running the Sequencer

Press the button to make the functions recorded in the sequencer execute one at a time.

1. Press the [MENU] button → "SEQUENCER" → select "SEQUENCER", and press the [VALUE] knob.

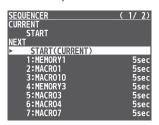


2. Use the [VALUE] knob to select "ON", and press the [VALUE] knob.

The sequencer function turns on.

3. Press the [MENU] button to close the menu.

The list of operations recorded in the sequencer is shown.



4. Press the [AUTO] button.



The first function in the list is executed.

The button blinks while the function is executing. When the function ends, the button remains lit.

5. Press the [AUTO] button at the timing when you want the next function to execute.

The function is executed.

[CUT] button

Press the [CUT] button if you want to return to the state at which the previous function was completed.

- 6. Repeat step 5.
- 7. To turn the sequencer function off, use the [MENU] button → "SEQUENCER" → and set "SEQUENCER" to "OFF".
- 8. Press the [MENU] button to close the menu.

MEMO

Repeatedly executing a function in the list

You can repeatedly execute functions that are in a list. Once the last function is finished, press the [AUTO] button to execute the function at the beginning of the list.

Use the [MENU] button \rightarrow "SEQUENCER" \rightarrow and set "REPEAT EXECUTE" to "ON".

Executing a function from the middle of the list

Use the [VALUE] knob to select a function from the list, and then press the [VALUE] knob to set the selected function to its completed state. You can press the [AUTO] button to execute the next function afterwards.

Using the USER buttons

You can assign the function to a USER button and turn sequencer on/off.

Use the [MENU] button \rightarrow "SYSTEM" \rightarrow "USER SW 1" or "UESR SW 2" \rightarrow use the following menu items to change the function assignment.

Menu item	Explanation	
CATEGORY	Choose "SEQUENCER".	
VALUE	Choose "MODE ON/OFF".	

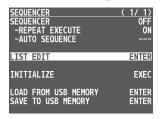
Making the Sequencer Run Automatically (Auto Sequence)

Use the auto sequence feature when you want to make the functions recorded in the sequencer execute automatically.

Configuring the auto sequence settings

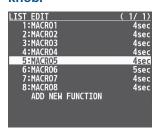
Set the action or function that's executed when the sequencer advances to the next function. You can add some delay time before the next function is executed, or pause the execution of a function.

 Press the [MENU] button → "SEQUENCER" → select "LIST EDIT", and press the [VALUE] knob.



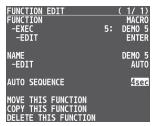
The list of operations recorded in the sequencer is shown.

2. Select the function in the list, and press the [VALUE] knob.



The FUNCTION EDIT menu appears.

Use the [VALUE] knob to select "AUTO SEQUENCE", and press the [VALUE] knob.



4. Use the [VALUE] knob to set the action that's executed when the sequencer advances to the next function, and then press the [VALUE] knob.

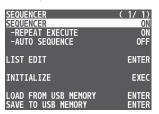
Value	Explanation	
PAUSE	Pauses the auto sequence.	
AUTO	Executes the next operation in the sequence.	
1–120sec	Executes the next operation after delaying for a specified amount of time.	

5. Press the [MENU] button to close the menu.

Running the auto sequence

 Use the [MENU] button → "SEQUENCER" → and set "SEQUENCER" to "ON".

The sequencer function turns on.



Use the [VALUE] knob to select "AUTO SEQUENCE", and set it to "ON".

The auto sequence turns on, and the functions in the list are executed, starting at the beginning. The [AUTO] button blinks while a function is executing.

When the last function is finished, the sequence stops automatically.

When a function is set to "PAUSE"

When the function is finished, auto sequence is paused. You can press the [AUTO] button to manually execute the next function.

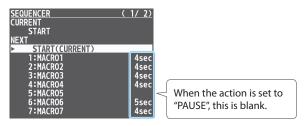
- * When executing a function that's set to a value other than "PAUSE", the auto sequence is resumed.
- To turn the auto sequence off, set "AUTO SEQUENCE" to "OFF".
- 4. Press the [MENU] button to close the menu.

MEMO

 You can repeatedly execute functions that are in a list. When the last function is finished, the sequencer returns to the beginning.

Use the [MENU] button \rightarrow "SEQUENCER" \rightarrow and set "REPEAT EXECUTE" to "ON".

• The list of operations recorded in the sequencer are shown when you turn the auto sequence (mentioned in step 2) on and close the menu. This lets you check which action is executed when the sequencer moves to the next function.



 You can assign the function to a USER button and turn auto sequence on/off (p. 63).

Saving/Loading the Sequencer Settings

You can save the sequencer settings as a single file (.RSQ) to a USB flash drive connected to the USB MEMORY port.

You can access the saved sequence file on the USB flash drive and load it into the unit for use when needed.

NOTE

- When using a USB flash drive for the first time, you must format it using the V-8HD (p. 60).
- Depending on the USB flash drive, recognition of the flash drive might take some time.

Saving

Saving a new file

- Connect the USB flash drive to the USB MEMORY port.
- 2. Press the [MENU] button → "SEQUENCER" → select "SAVE TO USB MEMORY", and press the [VALUE] knob.



The sequence files in the USB flash drive are listed.

Use the [VALUE] knob to select "NEW FILE...", and press the [VALUE] knob.



- 4. Enter the file name.
- * You can enter a text string of up to 16 characters in length.



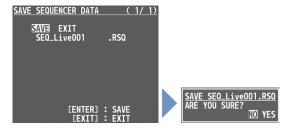
Use the [VALUE] knob to move the cursor.

Pressing the [EXIT] button deletes the character at the cursor location.

- Press the [VALUE] knob to highlight the character at the cursor location.
- 3 Use the [VALUE] knob to change the character, and then press the [VALUE] knob.

5. When you finish entering the name, use the [VALUE] knob to select "SAVE", and press the [VALUE] knob.

A confirmation message appears.



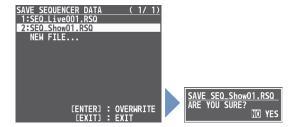
- * If you decide to cancel, press the [EXIT] button.
- 6. Use the [VALUE] knob to select "YES", and press the [VALUE] knob.

The sequence file (.RSQ) is saved to the USB flash drive. When the operation is finished, the message "COMPLETE" appears.

7. Press the [MENU] button to close the menu.

Overwrite-saving

- Connect the USB flash drive to the USB MEMORY port.
- Press the [MENU] button → "SEQUENCER" → select "SAVE TO USB MEMORY", and press the [VALUE] knob. The sequence files in the USB flash drive are listed.
- 3. Use the [VALUE] knob select the sequence file that you want to overwrite, and press the [VALUE] knob.
 A confirmation message appears.



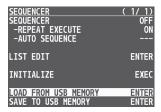
- * If you decide to cancel, press the [EXIT] button.
- 4. Use the [VALUE] knob to select "YES", and press the [VALUE] knob.

The sequence file is overwritten. When the operation is finished, the message "COMPLETE" appears.

Loading

Here's how to load the sequencer settings that are saved on a USB flash drive. When you load settings, the current sequencer settings are overwritten.

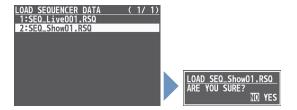
 Press the [MENU] button → "SEQUENCER" → select "LOAD FROM USB MEMORY", and press the [VALUE] knob.



The sequence files in the USB flash drive are listed.

2. Use the [VALUE] knob to select the sequence file that you want to load, and press the [VALUE] knob.

A confirmation message appears.



- * If you decide to cancel, press the [EXIT] button.
- 3. Use the [VALUE] knob to select "YES", and press the [VALUE] knob.

The sequencer settings are loaded. When the operation is finished, the message "COMPLETE" appears.

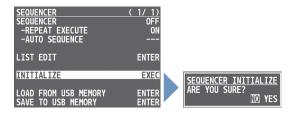
4. Press the [MENU] button to close the menu.

Initializing the Sequencer

Here's how to initialize the sequencer and erase all the settings.

 Press the [MENU] button → "SEQUENCER" → select "INITIALIZE", and press the [VALUE] knob.

A confirmation message appears.



- * If you decide to cancel, press the [EXIT] button.
- 2. Use the [VALUE] knob to select "YES", and press the [VALUE] knob.

The sequencer is initialized. When the operation is finished, the message "COMPLETE" appears.

3. Press the [MENU] button to close the menu.

MEMO

About the sequencer demo data

Once you perform a factory reset (p. 64), any demo data you have edited or deleted is restored to its factory default settings.

Saving the Unit's Settings on a USB Flash Drive

You can group together the unit's settings into a single file (.V08) and save it to a USB flash drive connected to the USB MEMORY port. You can access the saved file (.V08) on the USB flash drive and load it into the unit for use when needed.

NOTE

- When you're using a USB flash drive for the first time, be sure to format it on the V-8HD (p. 60).
- Depending on the USB flash drive, recognition of the flash drive might take some time.

Saving

Saving a new settings file

 Press the [MENU] button → "USB MEMORY" → select "BACKUP ALL SETTINGS", and press the [VALUE] knob.



Use the [VALUE] knob to select "NEW FILE...", and press the [VALUE] knob.



- 3. Enter the file name.
- * You can enter a text string of up to 16 characters in length.



1 Use the [VALUE] knob to move the cursor.

Pressing the [EXIT] button deletes the character at the cursor location.

- Press the [VALUE] knob to highlight the character at the cursor location.
- 3 Use the [VALUE] knob to change the character, and then press the [VALUE] knob.

4. When you finish entering the name, turn the [VALUE] knob to select "SAVE", and press the [VALUE] knob.

A confirmation message appears.



- * If you decide to cancel, press the [EXIT] button.
- 5. Press the [VALUE] knob.

The file (.V08) is newly saved on the USB flash drive.

6. Press the [MENU] button to guit the menu.

Overwrite-saving a settings file

 Press the [MENU] button → "USB MEMORY" → select "BACKUP ALL SETTINGS", and press the [VALUE] knob.



Use the [VALUE] knob select the file to overwrite, and press the [VALUE] knob.

A confirmation message appears.



- * If you decide to cancel, press the [EXIT] button.
- * If you long-press the [VALUE] knob, the edit screen opens with the file name preserved.
- 3. Press the [VALUE] knob.

The file (.V08) is newly saved on the USB flash drive.

Recalling

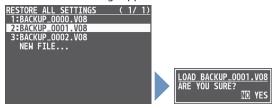
This loads settings that are in a preset memory saved on a USB flash drive. Loading settings overwrites the preset memory on the unit.

 Press the [MENU] button → "USB MEMORY" → select "RESTORE ALL SETTINGS", and press the [VALUE] knob.



2. Use the [VALUE] knob to select the file you want to recall, and press the [VALUE] knob.

A confirmation message appears.



- * If you decide to cancel, press the [EXIT] button.
- 3. Use the [VALUE] knob to select "YES", and press the [VALUE] knob.

The settings are recalled, and the values in the unit's preset memories are overwritten.

4. Press the [MENU] button to quit the menu.

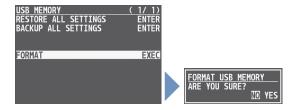
Formatting USB Flash Drives

When using a USB flash drive for the first time, be sure to format it on the V-8HD.

NOTE

- You may not be able to normally use USB flash drives on the V-8HD that are formatted on a different device. Be sure to format the media on the V-8HD (in FAT32 format).
- * Depending on the original format, formatting the USB flash drive might take some time.
- If an error message like "USB memory not ready" is shown, format the media on the V-8HD so that you can use it.
- Performing formatting causes all data already saved on the USB flash drive to be deleted. If the ash drive contains necessary data, back it up onto a computer or elsewhere before formatting the drive.
- Connect the USB flash drive to the USB MEMORY port.
- 2. Press the [MENU] button → "USB MEMORY" → select "FORMAT", and press the [VALUE] knob.

A confirmation message appears.



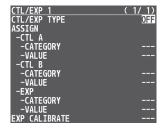
- * If you decide to cancel, press the [EXIT] button.
- 3. Use the [VALUE] knob to select "YES", and press the [VALUE] knob.

Formatting of the USB flash drive is carried out.

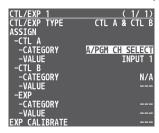
Using a Footswitch

You can use a footswitch connected to the CTL/EXP 1, 2 jacks of the V-8HD to control the V-8HD with your foot. You can assign various functions to the footswitch.

- 1. Connect a footswitch as described in p. 5.
- Press the [MENU] button → "CTL/EXP" → "CTL/EXP 1" or "CTL/EXP 2" → select "CTL/EXP TYPE", and press the [VALUE] knob.



- 3. Use the [VALUE] knob to select "CTL A & CTL B", and press the [VALUE] knob.
- 4. Use the [VALUE] knob to select CTL A or CTL B "CATEGORY" and "VALUE", and press the [VALUE] knob.



5. Use the [VALUE] knob to select the function that you want to assign to CTL A or CTL B of the footswitch, and press the [VALUE] knob.

CATEGORY

Value	Explanation	
N/A	No function is assigned.	
PGM CH SELECT	Switches the video sent to the A/PGM bus.	
PST CH SELECT	Switches the video sent to the B/PST bus.	
AUX CH SELECT	Switches the video sent to the AUX bus.	
INPUT 1–8 ASSIGN	Each time you press the footswitch, the video source of the specified input channel switches.	
STILL OUTPUT	Pauses the normal output, and preview/final outputs a cut of the still image.	
PinP 1, 2 SOURCE	Switches the video source of the inset screen.	
DSK SOURCE	Switches the DSK video source.	
SW CONTROL	This works the same as when you press the button selected in "VALUE".	
TAKE	Switches the video between A/PGM bus and B/PST bus.	
AUDIO INPUT MUTE	Turns the mute function on/off for the input audio.	
AUDIO OUTPUT MUTE	Turns the mute function on/off for the output audio.	
AUDIO INPUT SOLO	Turns the solo function on/off for the input audio.	
OUTPUT FADE	The same function as turning the [OUTPUT FADE] knob.	

Value	Explanation	
LOAD MEMORY	Recalls a preset memory.	
INPUT SCAN	Each time you press the footswitch, the INPUT 1–8 video changes in order.	
MEMORY SCAN	Each time you press the footswitch, preset memories 1–24 are recalled in order.	
MACRO EXECUTE	Executes a macro (a series of recorded operations).	
	MODE ON/OFF:	
	Turns sequencer function on/off.	
	NEXT:	
CEOUENCED	When the sequencer function is on, the same operation as when you press the [AUTO] button.	
SEQUENCER	PREVIOUS:	
	When the sequencer function is on, the same operation as when you press the [CUT] button.	
	AUTO SEQUENCE:	
	Turns the auto sequence function on/off.	

VALUE

Configures the detailed settings related to "CATEGORY".

Using an Expression Pedal

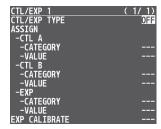
You can use an expression pedal connected to the CTL/EXP 1, 2 jacks of the V-8HD to control the V-8HD with your foot.

Adjusting the pedal (pedal calibration)

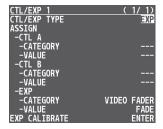
The first time you use an expression pedal, you must calibrate (adjust) the pedal so that it will operate optimally.

In some cases, an expression pedal might no longer operate optimally due to the passage of time or changes in the operating conditions. If you notice problems such as slight movements of the pedal causing a major change in volume, or if the video fails to switch when you press the pedal, you should execute calibration.

 Press the [MENU] button → "CTL/EXP" → "CTL/EXP 1" or "CTL/EXP 2" → select "CTL/EXP TYPE", and press the [VALUE] knob.



2. Use the [VALUE] knob to select "EXP", and press the [VALUE] knob.



3. Use the [VALUE] knob to select "EXP CALIBRATE", and press the [VALUE] knob.

The EXP CALIBRATE screen appears.



- 4. As directed by the screen, step on the pedal in the fully heel-down position, and press the [VALUE] knob.
- 5. As directed by the screen, step on the pedal in the fully toe-down position, and press the [VALUE] knob.

When the "Complete" indication appears, calibration is completed.

6. Press the [MENU] button to guit the menu.

MEMO

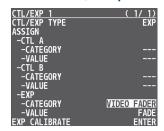
You should normally use the EV-5 with its minimum volume knob left in the zero position.

If you change the position of the minimum volume knob, you must execute pedal calibration.

Assigning a function to the pedal

A variety of functions can be assigned to the expression pedal.

- Press the [MENU] button → "CTL/EXP" → "CTL/EXP 1" or "CTL/EXP 2", → select "CTL/EXP TYPE",and press the [VALUE] knob.
- 2. Use the [VALUE] knob to select "EXP", and press the [VALUE] knob.
- Use the [VALUE] knob to select EXP "CATEGORY" and "VALUE", and press the [VALUE] knob.



4. Use the [VALUE] knob to select the function that you want to assign to the expression pedal, and press the [VALUE] knob.

CATEGORY

Value	Explanation	
N/A	No function is assigned.	
	FADE:	
	Operates the video fader.	
VIDEO FADER	▲ CUT ▼:	
	Switches the video between A/PGM bus and	
	B/PST bus as a cut.	
VFX MIX LEVEL	Adjusts the density (output level) of the	
	video that is processed by the visual effect.	
OUTPUT FADE	The same function as turning the [OUTPUT	
OOHOHADE	FADE] knob.	
STILL OUTPUT	Pauses the normal output, and preview/final	
SILLOUIFUI	outputs a cut of the still image.	
AUDIO INPUT LEVEL	Adjusts the input volume.	
AUDIO OUTPUT LEVEL	Adjusts the output volume.	

VALUE

Configures the detailed settings related to "CATEGORY".

Assigning the Functions of the USER [1] [2] Buttons

- * With the factory settings, the freeze function is assigned to the USER [1] button and the auto switching function is assigned to the USER [2] button.
- Press the [MENU] button → "SYSTEM" → select USER 1 SW or USER 2 SW "CATEGORY" and "VALUE", and press the [VALUE] knob.



2. Use the [VALUE] knob to select the function that you want to assign to the USER [1] or [2] button, and then press the [VALUE] knob.

CATEGORY

Value	Explanation	
N/A	No function is assigned.	
FREEZE	Turns the freeze function on/off.	
AUTO SWITCHING	AUTO SWITCHING SW:	
AUTOSWITCHING	Turns the auto switching function on/off.	
	BPM TAP:	
ВРМ ТАР	If AUTO SWITCHING is "BPM SYNC", you can set the BPM according to the tempo at which you press the button.	
INPUT ASSIGN	Each time you press a button, the video source of the specified input channel switches.	
STILL OUTPUT	Pauses the normal output, and preview/final outputs a cut of the still image.	
AUDIO INPUT MUTE	Turns the mute function on/off for the input audio.	
AUDIO OUTPUT MUTE	Turns the mute function on/off for the output audio.	
INPUT SCAN	Each time you press a button, the INPUT 1-video changes in order.	
MEMORY SCAN	Each time you press a button, preset memories 1–24 are recalled in order.	
REC CONTROL	Controls the recorder's video record start/ stop if a recorder that supports HDMI REC TRIGGER functionality is connected.	
	MODE ON/OFF:	
	Turns sequencer function on/off.	
SEQUENCER	NEXT:	
	When the sequencer function is on, the same operation as when you press the [AUTO] button.	
	PREVIOUS:	
	When the sequencer function is on, the same operation as when you press the [CUT] button.	
	AUTO SEQUENCE:	
	Turns the auto sequence function on/off.	

VALUE

Configures the detailed settings related to "CATEGORY".

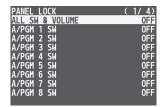
3. Press the [MENU] button to quit the menu.

Preventing Unintended Operation (Panel Lock)

Here's how you can lock the V-8HD's buttons and knobs to prevent unintended operation.

- * The [MENU] button blinks when you try to operate a locked button, knob or other control.
- Press the [MENU] button → "SYSTEM" → select "PANEL LOCK", and press the [VALUE] knob.

The PANEL LOCK menu appears.



2. Use the [VALUE] knob to select a target for panel lock, and press the [VALUE] knob.

Menu item	Explanation	
ALL SW & VOLUME	Turns on/off the settings of the following	
ALL 3W & VOLUME	buttons and knobs in a single action.	
A/PGM 1-8 SW	Cross-point A [1]–[8] buttons	
B/PST 1-8 SW	Cross-point B [1]–[8] buttons	
CUT SW	[CUT] button	
AUTO SW	[AUTO] button	
MODE SW	[MODE] button	
AUX SW	AUX [1]–[8] buttons	
PinP 1 SOURCE SW	PinP 1 [1]–[8] buttons	
PinP 2 SOURCE SW	PinP 2 [1]–[8] buttons	
MEMORY SW	MEMORY [1]–[8] buttons	
MACRO SW	AUX / PinP SOURCE / MEMORY [1]–[8]	
IVIACRO SW	buttons	
TRANSITION SW	[TRANSITION] button	
VIDEO FADER	Video fader	
SPLIT/VFX A BLOCK	SPLIT/VFX [A] knob/button	
SPLIT/VFX B BLOCK	SPLIT/VFX [B] knob/button	
PinP 1 BLOCK	PinP 1 [POSITION H] [POSITION V] knobs,	
PINP I BLOCK	[PVW] [ON] buttons	
PinP 2 BLOCK	PinP 2 [POSITION H] [POSITION V] knobs,	
FIIIF 2 BLOCK	[PVW] [ON] buttons	
DSK BLOCK	DSK [LEVEL] [GAIN] knobs, [PVW] [ON] button:	
USER 1 SW	USER [1] button	
USER 2 SW	USER [2] button	
CAPTURE IMAGE SW	[CAPTURE IMAGE] button	
OUTPUT FADE	[OUTPUT FADE] knob	

- 3. Use the [VALUE] knob to specify whether panel lock is applied (ON) or not applied (OFF), and press the [VALUE] knob.
- 4. Repeat steps 2–3 as necessary.
- 5. Press the [MENU] button to quit the menu.

Controlling an External Recorder's Video Record Start/Stop from the V-8HD

If a recorder that supports the "HDMI RECTRIGGER" function is connected to an OUTPUT of the V-8HD, you can use the USER [1] or [2] button of the V-8HD to control video record start/stop on that recorder.

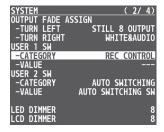
For more about recorders that support the HDMI REC TRIGGER function, refer to the Roland website.

https://proav.roland.com/

 Press the [MENU] button → "SYSTEM" → select USER 1 SW or USER 2 SW "CATEGORY", and press the [VALUE] knob.



2. Use the [VALUE] knob to select "REC CONTROL", and press the [VALUE] knob.



- 3. Press the [MENU] button to quit the menu.
- 4. Press the USER [1] or [2] button that is assigned to "REC CONTROL".

Each time you press the button, the recorder switches between video record start/stop.

The USER [1] or [2] button is lit red during recording, and is unlit when recording stops.

MEMO

The lit/unlit state of the USER [1] [2] buttons indicates the state
of the V-8HD, and does not reflect the state of the external
recorder.

This means that even if, while the USER [1] or [2] button is lit red, the external recorder stops recording because of an operation performed on it or because of the state of its storage, the USER [1] or [2] button does not go dark at that time.

 If you want to disable control of the recorder that supports the HDMI REC TRIGGER function, turn the VIDEO OUTPUT menu → OUTPUT 1–3 "REC CONTROL" setting "OFF".

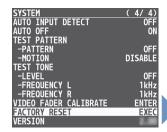
Returning to the Factory Settings (Factory Reset)

Here's how you can return the settings of the V-8HD to their factoryset state. If following the procedures described in this manual does not cause the result you expect, try executing a factory reset.

NOTE

- When you execute factory reset, any previously specified content, any settings saved in preset memory (p. 41), and the still image (p. 29) saved in the unit will all be lost.
- Do not turn off the power while the "PLEASE WAIT" message is shown.
- Press the [MENU] button → "SYSTEM" → select "FACTORY RESET", and press the [VALUE] knob.

A confirmation message appears.





- * If you decide to cancel, press the [EXIT] button.
- 2. Use the [VALUE] knob to select "YES", and press the [VALUE] knob.

The factory reset is executed.

When the operation is finished, the message "COMPLETE" appears.

Menu List

When you press the [MENU] button, the menu is shown on this unit's monitor and on the display that's connected to the OUTPUT 3 connector.



MEMO

- When a setting value has menu items that let you make more-detailed settings, "ENTER" is displayed at the top of the screen. Press the [VALUE] knob to go down a level.
- To execute an operation, press the [VALUE] knob.
- You can change a setting value rapidly by holding down the [VALUE] button and turning.
- Long pressing the [EXIT] button returns the currently selected setting to its default value.

1: VIDEO INPUT

INPUT 1-6

Menu item	Value (Bold: default)	Explanation	
INPUT STATUS	ENTER	Displays information about the incoming video (format, size, etc.).	
INPUT ASSIGN	HDMI, STILL 1–8	Selects the input source.	
FLIP H	OFF, ON	If this is "ON", the video is input with left and right flipped.	
FLIP V	OFF, ON	If this is "ON", the video is input with top and bottom flipped.	
BRIGHTNESS	-32- 0 -31	Adjusts the brightness.	
CONTRAST	-32 -0 -31	Adjusts the contrast.	
SATURATION	-32- 0 -31	Adjusts the saturation.	

INPUT 7, 8 (SCALER)

Menu item	Value (Bold: default)	Explanation	
INPUT STATUS	ENTER	Displays information about the incoming video (format, size, etc.).	
INPUT ASSIGN	HDMI, STILL 1–8	Selects the input source.	
FLICKER FILTER	OFF, ON	If this is "ON", flickering is reduced.	
FLIP H	OFF, ON	If this is "ON", the video is input with left and right flipped.	
FLIPV	OFF, ON	If this is "ON", the video is input with top and bottom flipped.	
EDID	INTERNAL SVGA (800x600) XGA (1024x768) WXGA (1280x800) FWXGA (1366x768) SXGA (1280x1024) SXGA+ (1400x1050) UXGA (1600x1200) WUXGA (1920x1200) 720p 1080i 1080p	Specifies the input format (EDID). If this is "INTERNAL", EDID information for all formats that can be input to the V-8HD will be transmitted. What is EDID? EDID is data that is transmitted from the V-8HD to the source device when the V-8HD is connected to a source device. EDID contains data such as the formats that can be input to the V-8HD (resolution, color space, color depth) and audio information. Based on the EDID information that the source device receives, it will output the most appropriate video format to the V-8HD.	
ZOOM	10.0- 100.0 -1000.0% (*1)	Adjusts the zoom ratio.	

Menu item	Value (Bold: default) Explanation		
	Specifies the scaling type.		
SCALING TYPE	FULL	Always displays the picture expanded to full screen, irrespective of the aspect ratio of the input video.	
	LETTERBOX	Enlarges or reduces the incoming video to a full-screen view while keeping the aspect ratio unchanged.	
	CROP	Enlarges or reduces the incoming video so that the output picture has no blank margins while keeping the aspect ratio unchanged. Video extending beyond the borders is cut off.	
	DOT BY DOT	Performs no scaling.	
	MANUAL	Scale according to the "MANUAL SIZE H" and "MANUAL SIZE V" settings below.	
MANUAL SIZE H (*2)	-2000- 0 -2000 (*1)	Adjusts the horizontal size.	
MANUAL SIZE V (*2)	-2000 -0 -2000 (*1)	Adjusts the vertical size.	
POSITION H	-1920- 0 -1920	Adjusts the display position in the horizontal direction.	
POSITION V	-1920- 0 -1920	Adjusts the display position in the vertical direction.	
BRIGHTNESS	-32 -0 -31	Adjusts the brightness.	
CONTRAST	-32 -0 -31	Adjusts the contrast.	
SATURATION	-32 -0 -31	Adjusts the saturation.	
RED	-64- 0 -63	Adjusts the red level.	
GREEN	-64- 0 -63	Adjusts the green level.	
BLUE	-64- 0 -63	Adjusts the blue level.	

 $^{(*1) \}quad \text{The valid range of setting values depends on conditions such as the input/output format.}$

2: VIDEO OUTPUT

OUTPUT 1-3

Menu item	Value (Bold: default)	Explanation	
OUTPUT STATUS	_	Displays information about the output connector. When there's no connection, "NOT CONNECTED" is displayed.	
	Specifies the video bus that is assigned to the OUTPUT connector.		
	PROGRAM	Outputs the program video.	Default
OUTPUT ASSIGN	PREVIEW	Outputs the preview video (standby video).	OUTPUT 1: PROGRAM
	AUX	Outputs the AUX bus.	OUTPUT 2: PREVIEW
	MULTI-VIEW	Outputs the multi-view monitor.	OUTPUT 3: MULTI-VIEW
COLOR SPACE	YPbPr 4:4:4 , RGB (0–255), RGB (16–235), YPbPr 4:2:2	Specifies the color space.	
DVI-D/HDMI SIGNAL	HDMI, DVI-D	Specifies the output mode for HDMI output.	
BRIGHTNESS	-64- 0 -63	Adjusts the brightness.	
CONTRAST	-64- 0 -63	Adjusts the contrast.	
SATURATION	-64- 0 -63	Adjusts the saturation.	
RED	-64- 0 -63	Adjusts the red level.	
GREEN	-64- 0 -63	Adjusts the green level.	
BLUE	-64- 0 -63	Adjusts the blue level.	
REC CONTROL	OFF, ON	Specifies whether video record start/stop on a recorder equipped with the HDMI REC TRIGGER function will (ON) or will not (OFF) be controlled from the V-8HD.	

^(*2) This is valid when "SCALING TYPE" is set to "MANUAL".

3: TRANSITION TIME

Menu item	Value (Bold: default)	Explanation
MIX/WIPE TIME	0.0- 1.0 -4.0sec	Specifies the video transition time.
PinP 1 TIME	0.0- 1.0 -4.0sec	Specifies the fade time with which the PinP 1 or PinP 2 inset screen appears or
PinP 2 TIME	0.0- 1.0 -4.0sec	disappears when using Picture in Picture (PinP) compositing.
DSKTIME	0.0 –1.0 –4.0sec	Specifies the fade time with which the superimposed logo or video appears or disappears when using DSK compositing.

4: MIX/WIPE

Menu item	Value (Bold: default)	Explanation
TRANSITION TYPE	MIX, WIPE	Selects the mode of the transition effect.
TRANSITIONTIFE	WIX, WIF L	You can also use the [TRANSITION] button to switch between MIX and WIPE.
	Specifies the transition pattern for	mix.
	MIX	The two pictures are blended together as the video is switched.
MIXTYPE	FAM	Video transitions are made with the luminance levels of the two video streams maintained unchanged.
		This is an abbreviation of "full additive mix".
	NAM	The two video streams are compared, and transitions are made with display during transition starting with levels of high luminance. This is an abbreviation of "non-additive mix".
	Specifies the transition pattern for	wipe.
WIPETYPE	HORIZONTAL VERTICAL	UPPER LEFT UPPER RIGHT LOWER LEFT
	LOWER RIGHT H-CENTER	V-CENTER
WIPE DIRECTION	NORMAL, REVERSE, ROUND TRIP	Specifies the direction of wipe.
WIPE BORDER COLOR	WHITE, YELLOW, CYAN, GREEN, MAGENTA, RED, BLUE, BLACK, SOFT EDGE	Specifies the color of the border added to the edge of the wipe area. If this is set to "SOFT EDGE", the wipe border is blurred.
WIPE BORDER WIDTH	0-3-14	Specifies the width of the border added to the edge of the wipe area.

5: SPLIT/VFX

SPLIT/VFX A, B

Menu item	Value (Bold: default)	Explanation
SPLIT/VFX	OFF, ON	Turns the split/visual effect on/off.
SPLII/VFX		You can also use the SPLIT/VFX [A] or [B] button to turn this on/off.
	SPLIT V, SPLIT H, PART MOSAIC,	
	BACKGROUND MOSAIC, FULL MOSAIC, WAVE, RGB REPLACE,	
SPLIT/VFX TYPE	COLORPASS, NEGATIVE, COLORIZE,	Specifies the split/visual effect types.
SFEIT/VIXITIE	POSTERIZE, SILHOUETTE, EMBOSS,	* The menu items differ for each split/visual effect.
	FIND EDGES, MONOCOLOR,	
	HUE OFFSET, SATURATION OFFSET,	
	VALUE OFFSET	

■ SPLIT/VFX TYPE: SPLIT V

Composites two videos split vertically at their centers.

Menu item	Value (Bold: default)	Explanation
A-CENTER	-25.0 -0.0 -25.0%	Adjusts the horizontal position of the video shown on the left (A/PGM side).
A-CENTER		You can adjust this by turning the SPLIT/VFX [A] knob.
B-CENTER	25.0.00.25.00/	Adjusts the horizontal position of the video shown on the right (B/PST side).
D-CENTER	-25.0 -0.0 -25.0%	You can adjust this by turning the SPLIT/VFX [B] knob.
		Adjusts the position of the boundary.
CENTER POSITION	-50.0 -0.0 -50.0%	You can change the size of the two videos by shifting the boundary line.
		You can adjust this by turning the SPLIT/VFX [A] or [B] knob while pressing it.
BORDER COLOR	WHITE, YELLOW, CYAN, GREEN,	Specifies the color of the border.
	MAGENTA, RED, BLUE, BLACK	
BORDER WIDTH	0-3-14	Adjusts the width of the border.

■ SPLIT/VFX TYPE: SPLIT H

 $Composites \ two \ videos \ split \ horizontally \ at \ their \ centers.$

Menu item	Value (Bold: default)	Explanation
A-CENTER	-25.0 -0.0 -25.0%	Adjusts the vertical position of the video shown above (A/PGM side).
A-CENTER		You can adjust this by turning the SPLIT/VFX [A] knob.
B-CENTER	35.0.00.35.00/	Adjusts the vertical position of the video shown above (B/PST side).
D-CEIVIER	-25.0 -0.0 -25.0%	You can adjust this by turning the SPLIT/VFX [B] knob.
		Adjusts the position of the boundary.
CENTER POSITION	-50.0 -0.0 -50.0%	You can change the size of the two videos by shifting the boundary line.
		You can adjust this by turning the SPLIT/VFX [A] or [B] knob while pressing it.
BORDER COLOR	WHITE, YELLOW, CYAN, GREEN,	Specifies the color of the border.
DONDEN COLON	MAGENTA, RED, BLUE, BLACK	specifies the color of the border.
BORDER WIDTH	0-3 -14	Adjusts the width of the border.

■ SPLIT/VFX TYPE: PART MOSAIC

Applies a mosaic to the selected region.

Menu item	Value (Bold: default)	Explanation
POSITION H	-100.0 -0.0 -100.0%	Adjusts the horizontal position of the selected area.
POSITION II		You can adjust this by turning the SPLIT/VFX [A] or [B] knob.
POSITION V	-100.0 -0.0 -100.0%	Adjusts the vertical position of the selected area.
POSITION V	-100.0-0.0-100.0%	You can adjust this by turning the SPLIT/VFX [A] or [B] knob while pressing it.
AREA SIZE	10.0 -40.0 -100.0%	Adjusts the size (zoom) of the selected area.
CORRECTION H	-2000- 0 -2000	Adjusts the horizontal size of the selected area.
CORRECTION V	-2000- 0 -2000	Adjusts the vertical size of the selected area.
BLOCK SIZE	OFF (1x1), 4x4, 8x8, 16x16, 32x32, 64x64 , 128x128, 256x256	Specifies the fineness (block size) of the mosaic.
MIX LEVEL	0-255	Adjusts the intensity (output level) of the video with the visual effect applied.

■ SPLIT/VFX TYPE: BA	ACKGROUND MOSAIC	Applies a mosaic to the portion of the selected area.
Menu item	Value (Bold: default)	Explanation
Mena tem	variac (boid, default)	Adjusts the horizontal position of the selected area.
POSITION H	-100.0- 0.0 -100.0%	You can adjust this by turning the SPLIT/VFX [A] or [B] knob.
		Adjusts the vertical position of the selected area.
POSITION V	-100.0- 0.0 -100.0%	You can adjust this by turning the SPLIT/VFX [A] or [B] knob while pressing it.
AREA SIZE	10.0- 40.0 -100.0%	Adjusts the size (zoom) of the selected area.
CORRECTION H	-2000 -0 -2000	Adjusts the horizontal size of the selected area.
CORRECTION V	-2000 -0 -2000	Adjusts the vertical size of the selected area.
BLOCK SIZE	OFF (1x1), 4x4, 8x8, 16x16, 32x32, 64x64 , 128x128, 256x256	Specifies the fineness (block size) of the mosaic.
MIX LEVEL	0-255	Adjusts the intensity (output level) of the video with the visual effect applied.
■ SPLIT/VFX TYPE: FU	JLL MOSAIC	Applies a mosaic to the entire screen.
Menu item	Value (Bold: default)	Explanation
BLOCK SIZE	OFF (1x1), 4x4, 8x8, 16x16, 32x32, 64x64 , 128x128, 256x256	Specifies the fineness (block size) of the mosaic.
MIX LEVEL	0 -255	Adjusts the intensity (output level) of the video with the visual effect applied.
IVIIX LL V LL	0-233	Adjusts the intensity (output level) of the video with the visual effect applied.
■ SPLIT/VFX TYPE: W	AVE	Makes the video wavy.
Menu item	Value (Bold: default)	Explanation
GAIN	0- 127 -255	Adjust the height of the waves.
TYPE	1-4-7	Specifies the number of waves.
MIX LEVEL	0–255	Adjusts the intensity (output level) of the video with the visual effect applied.
	0 233	Adjusts the intensity (output level) of the video with the visual effect applied.
■ SPLIT/VFX TYPE: RG	5B REPLACE	Exchanges the colors.
■ SPLIT/VFX TYPE: RG	GB REPLACE Value (Bold: default)	
	5B REPLACE	Exchanges the colors.
Menu item	Value (Bold: default) OFF (R.G.B), B.R.G, G.B.R, R.B.G,	Exchanges the colors. Explanation
Menu item TYPE	Value (Bold: default) OFF (R.G.B), B.R.G, G.B.R, R.B.G, G.R.B, B.G.R	Exchanges the colors. Explanation Specifies the type of RGB replace.
Menu item TYPE MIX LEVEL	Value (Bold: default) OFF (R.G.B), B.R.G, G.B.R, R.B.G, G.R.B, B.G.R 0-255	Exchanges the colors. Explanation Specifies the type of RGB replace. Adjusts the intensity (output level) of the video with the visual effect applied.
Menu item TYPE	Value (Bold: default) OFF (R.G.B), B.R.G, G.B.R, R.B.G, G.R.B, B.G.R 0-255	Exchanges the colors. Explanation Specifies the type of RGB replace.
Menu item TYPE MIX LEVEL SPLIT/VFX TYPE: CC	Value (Bold: default) OFF (R.G.B), B.R.G, G.B.R, R.B.G, G.R.B, B.G.R 0-255 OLOR PASS	Exchanges the colors. Explanation Specifies the type of RGB replace. Adjusts the intensity (output level) of the video with the visual effect applied. Turns the video black and white while preserving a specific color.
Menu item TYPE MIX LEVEL SPLIT/VFX TYPE: CO	Value (Bold: default) OFF (R.G.B), B.R.G, G.B.R, R.B.G, G.R.B, B.G.R 0-255 DLOR PASS Value (Bold: default)	Exchanges the colors. Explanation Specifies the type of RGB replace. Adjusts the intensity (output level) of the video with the visual effect applied. Turns the video black and white while preserving a specific color. Explanation
Menu item TYPE MIX LEVEL SPLIT/VFX TYPE: CC Menu item TYPE	Value (Bold: default) OFF (R.G.B), B.R.G, G.B.R, R.B.G, G.R.B, B.G.R 0-255 DLOR PASS Value (Bold: default) 1-42-63	Exchanges the colors. Explanation Specifies the type of RGB replace. Adjusts the intensity (output level) of the video with the visual effect applied. Turns the video black and white while preserving a specific color. Explanation Specifies the type of color pass.
Menu item TYPE MIX LEVEL SPLIT/VFX TYPE: CO	Value (Bold: default) OFF (R.G.B), B.R.G, G.B.R, R.B.G, G.R.B, B.G.R 0-255 DLOR PASS Value (Bold: default)	Exchanges the colors. Explanation Specifies the type of RGB replace. Adjusts the intensity (output level) of the video with the visual effect applied. Turns the video black and white while preserving a specific color. Explanation
Menu item TYPE MIX LEVEL SPLIT/VFX TYPE: CC Menu item TYPE	Value (Bold: default) OFF (R.G.B), B.R.G, G.B.R, R.B.G, G.R.B, B.G.R 0-255 DLOR PASS Value (Bold: default) 1-42-63	Exchanges the colors. Explanation Specifies the type of RGB replace. Adjusts the intensity (output level) of the video with the visual effect applied. Turns the video black and white while preserving a specific color. Explanation Specifies the type of color pass.
Menu item TYPE MIX LEVEL SPLIT/VFX TYPE: CO Menu item TYPE MIX LEVEL	Value (Bold: default) OFF (R.G.B), B.R.G, G.B.R, R.B.G, G.R.B, B.G.R 0-255 OLOR PASS Value (Bold: default) 1-42-63 0-255	Exchanges the colors. Explanation Specifies the type of RGB replace. Adjusts the intensity (output level) of the video with the visual effect applied. Turns the video black and white while preserving a specific color. Explanation Specifies the type of color pass. Adjusts the intensity (output level) of the video with the visual effect applied.
Menu item TYPE MIX LEVEL SPLIT/VFX TYPE: CC Menu item TYPE	Value (Bold: default) OFF (R.G.B), B.R.G, G.B.R, R.B.G, G.R.B, B.G.R 0-255 OLOR PASS Value (Bold: default) 1-42-63 0-255	Exchanges the colors. Explanation Specifies the type of RGB replace. Adjusts the intensity (output level) of the video with the visual effect applied. Turns the video black and white while preserving a specific color. Explanation Specifies the type of color pass.
Menu item TYPE MIX LEVEL SPLIT/VFX TYPE: CO Menu item TYPE MIX LEVEL	Value (Bold: default) OFF (R.G.B), B.R.G, G.B.R, R.B.G, G.R.B, B.G.R 0-255 OLOR PASS Value (Bold: default) 1-42-63 0-255	Exchanges the colors. Explanation Specifies the type of RGB replace. Adjusts the intensity (output level) of the video with the visual effect applied. Turns the video black and white while preserving a specific color. Explanation Specifies the type of color pass. Adjusts the intensity (output level) of the video with the visual effect applied.
Menu item TYPE MIX LEVEL SPLIT/VFX TYPE: CO Menu item TYPE MIX LEVEL SPLIT/VFX TYPE: NE	Value (Bold: default) OFF (R.G.B), B.R.G, G.B.R, R.B.G, G.R.B, B.G.R 0-255 DLOR PASS Value (Bold: default) 1-42-63 0-255	Exchanges the colors. Explanation Specifies the type of RGB replace. Adjusts the intensity (output level) of the video with the visual effect applied. Turns the video black and white while preserving a specific color. Explanation Specifies the type of color pass. Adjusts the intensity (output level) of the video with the visual effect applied. Inverts the brightness and colors.
Menu item TYPE MIX LEVEL SPLIT/VFX TYPE: CC Menu item TYPE MIX LEVEL SPLIT/VFX TYPE: NE Menu item	Value (Bold: default) OFF (R.G.B), B.R.G, G.B.R, R.B.G, G.R.B, B.G.R 0-255 DLOR PASS Value (Bold: default) 1-42-63 0-255 EGATIVE Value (Bold: default)	Exchanges the colors. Explanation Specifies the type of RGB replace. Adjusts the intensity (output level) of the video with the visual effect applied. Turns the video black and white while preserving a specific color. Explanation Specifies the type of color pass. Adjusts the intensity (output level) of the video with the visual effect applied. Inverts the brightness and colors. Explanation
Menu item TYPE MIX LEVEL SPLIT/VFX TYPE: CC Menu item TYPE MIX LEVEL SPLIT/VFX TYPE: NE Menu item TYPE	Value (Bold: default) OFF (R.G.B), B.R.G, G.B.R, R.B.G, G.R.B, B.G.R 0-255 DLOR PASS Value (Bold: default) 1-42-63 0-255 EGATIVE Value (Bold: default) Pr, Pb, PbPr, Y, YPr, YPb, YPbPr	Exchanges the colors. Explanation Specifies the type of RGB replace. Adjusts the intensity (output level) of the video with the visual effect applied. Turns the video black and white while preserving a specific color. Explanation Specifies the type of color pass. Adjusts the intensity (output level) of the video with the visual effect applied. Inverts the brightness and colors. Explanation Specifies the type of negative.
Menu item TYPE MIX LEVEL SPLIT/VFX TYPE: CC Menu item TYPE MIX LEVEL SPLIT/VFX TYPE: NE Menu item TYPE	Value (Bold: default) OFF (R.G.B), B.R.G, G.B.R, R.B.G, G.R.B, B.G.R 0-255 DLOR PASS Value (Bold: default) 1-42-63 0-255 EGATIVE Value (Bold: default) Pr, Pb, PbPr, Y, YPr, YPb, YPbPr	Exchanges the colors. Explanation Specifies the type of RGB replace. Adjusts the intensity (output level) of the video with the visual effect applied. Turns the video black and white while preserving a specific color. Explanation Specifies the type of color pass. Adjusts the intensity (output level) of the video with the visual effect applied. Inverts the brightness and colors. Explanation Specifies the type of negative.
Menu item TYPE MIX LEVEL SPLIT/VFX TYPE: CC Menu item TYPE MIX LEVEL SPLIT/VFX TYPE: NE Menu item TYPE	Value (Bold: default) OFF (R.G.B), B.R.G, G.B.R, R.B.G, G.R.B, B.G.R 0-255 DLOR PASS Value (Bold: default) 1-42-63 0-255 EGATIVE Value (Bold: default) Pr, Pb, PbPr, Y, YPr, YPb, YPbPr 0-255	Exchanges the colors. Explanation Specifies the type of RGB replace. Adjusts the intensity (output level) of the video with the visual effect applied. Turns the video black and white while preserving a specific color. Explanation Specifies the type of color pass. Adjusts the intensity (output level) of the video with the visual effect applied. Inverts the brightness and colors. Explanation Specifies the type of negative.
Menu item TYPE MIX LEVEL SPLIT/VFX TYPE: CO Menu item TYPE MIX LEVEL SPLIT/VFX TYPE: NE Menu item TYPE MIX LEVEL SPLIT/VFX TYPE: CO	Value (Bold: default) OFF (R.G.B), B.R.G, G.B.R, R.B.G, G.R.B, B.G.R 0-255 DLOR PASS Value (Bold: default) 1-42-63 0-255 EGATIVE Value (Bold: default) Pr, Pb, PbPr, Y, YPr, YPb, YPbPr 0-255 DLORIZE	Exchanges the colors. Explanation Specifies the type of RGB replace. Adjusts the intensity (output level) of the video with the visual effect applied. Turns the video black and white while preserving a specific color. Explanation Specifies the type of color pass. Adjusts the intensity (output level) of the video with the visual effect applied. Inverts the brightness and colors. Explanation Specifies the type of negative. Adjusts the intensity (output level) of the video with the visual effect applied. Adds color to the video.
Menu item TYPE MIX LEVEL SPLIT/VFX TYPE: CC Menu item TYPE MIX LEVEL SPLIT/VFX TYPE: NE Menu item TYPE MIX LEVEL SPLIT/VFX TYPE: CC Menu item	Value (Bold: default) OFF (R.G.B), B.R.G, G.B.R, R.B.G, G.R.B, B.G.R 0-255 DLOR PASS Value (Bold: default) 1-42-63 0-255 EGATIVE Value (Bold: default) Pr, Pb, PbPr, Y, YPr, YPb, YPbPr 0-255 DLORIZE Value (Bold: default)	Exchanges the colors. Explanation Specifies the type of RGB replace. Adjusts the intensity (output level) of the video with the visual effect applied. Turns the video black and white while preserving a specific color. Explanation Specifies the type of color pass. Adjusts the intensity (output level) of the video with the visual effect applied. Inverts the brightness and colors. Explanation Specifies the type of negative. Adjusts the intensity (output level) of the video with the visual effect applied. Adds color to the video. Explanation
Menu item TYPE MIX LEVEL SPLIT/VFX TYPE: CO Menu item TYPE MIX LEVEL SPLIT/VFX TYPE: NE Menu item TYPE MIX LEVEL SPLIT/VFX TYPE: CO	Value (Bold: default) OFF (R.G.B), B.R.G, G.B.R, R.B.G, G.R.B, B.G.R 0-255 DLOR PASS Value (Bold: default) 1-42-63 0-255 EGATIVE Value (Bold: default) Pr, Pb, PbPr, Y, YPr, YPb, YPbPr 0-255 DLORIZE	Exchanges the colors. Explanation Specifies the type of RGB replace. Adjusts the intensity (output level) of the video with the visual effect applied. Turns the video black and white while preserving a specific color. Explanation Specifies the type of color pass. Adjusts the intensity (output level) of the video with the visual effect applied. Inverts the brightness and colors. Explanation Specifies the type of negative. Adjusts the intensity (output level) of the video with the visual effect applied. Adds color to the video.

	: POSTERIZE	
Menu item	Value (Bold: default)	Explanation
LEVEL	1-3-4	Specifies the gradation level for brightness.
MIX LEVEL	0-255	Adjusts the intensity (output level) of the video with the visual effect applied.
SPLIT/VFX TYPE	: SILHOUETTE	Separates the video into light and dark areas, and makes the dark areas black and adds a different color to the light areas.
Menu item	Value (Bold: default)	Explanation
ГҮРЕ	1–128	Specifies the hue to be colorized.
MIX LEVEL	0-255	Adjusts the intensity (output level) of the video with the visual effect applied.
SPLIT/VFX TYPE:	: EMBOSS	Adds a bas-relief effect to the video.
Menu item	Value (Bold: default)	Explanation
ГҮРЕ	1–128	Specifies the type of emboss.
CONTRAST	0-15	Adjusts the contrast.
MIX LEVEL	0-255	Adjusts the intensity (output level) of the video with the visual effect applied.
■ SPLIT/VFX TYPE:	: FIND EDGES	Extracts contours.
	V-1	F. J. W.
Menu item	Value (Bold: default)	Explanation
G COLOR	0-15	Specifies the color of the edge.
3G COLOR	0- 3 -15	Specifies the color of the background.
MIX LEVEL ■ SPLIT/VFX TYPE:	0-255 : MONOCOLOR	Adjusts the intensity (output level) of the video with the visual effect applied. Turns the video monochrome.
SPLIT/VFX TYPE	: MONOCOLOR	Turns the video monochrome.
SPLIT/VFX TYPE:		Turns the video monochrome. Explanation
SPLIT/VFX TYPE: Menu item Pb COLOR	: MONOCOLOR Value (Bold: default)	Turns the video monochrome. Explanation Specifies the color of the edge.
SPLIT/VFX TYPE: Menu item Pb COLOR Pr COLOR	: MONOCOLOR Value (Bold: default) 0-63	Turns the video monochrome. Explanation
	: MONOCOLOR Value (Bold: default) 0-63 0-63	Turns the video monochrome. Explanation Specifies the color of the edge. Specifies the color of the background.
SPLIT/VFX TYPE: Menu item Pb COLOR Pr COLOR	: MONOCOLOR Value (Bold: default) 0-63 0-63 0-255	Turns the video monochrome. Explanation Specifies the color of the edge. Specifies the color of the background.
SPLIT/VFX TYPE: Menu item Pb COLOR Pr COLOR MIX LEVEL SPLIT/VFX TYPE:	: MONOCOLOR Value (Bold: default) 0-63 0-63 0-255	Turns the video monochrome. Explanation Specifies the color of the edge. Specifies the color of the background. Adjusts the intensity (output level) of the video with the visual effect applied.
SPLIT/VFX TYPE: Menu item Pb COLOR Pr COLOR MIX LEVEL SPLIT/VFX TYPE: Menu item	: MONOCOLOR Value (Bold: default) 0-63 0-63 0-255 : HUE OFFSET	Turns the video monochrome. Explanation Specifies the color of the edge. Specifies the color of the background. Adjusts the intensity (output level) of the video with the visual effect applied. Changes the visual character by controlling the hue.
SPLIT/VFX TYPE: Menu item Pb COLOR Pr COLOR MIX LEVEL SPLIT/VFX TYPE: Menu item VALUE	Wonocolor Value (Bold: default) 0-63 0-63 0-255 HUE OFFSET Value (Bold: default)	Turns the video monochrome. Explanation Specifies the color of the edge. Specifies the color of the background. Adjusts the intensity (output level) of the video with the visual effect applied. Changes the visual character by controlling the hue. Explanation
SPLIT/VFX TYPE: Menu item Pb COLOR Pr COLOR MIX LEVEL SPLIT/VFX TYPE: Menu item VALUE MIX LEVEL	: MONOCOLOR Value (Bold: default) 0-63 0-63 0-255 : HUE OFFSET Value (Bold: default) 0-180-359	Turns the video monochrome. Explanation Specifies the color of the edge. Specifies the color of the background. Adjusts the intensity (output level) of the video with the visual effect applied. Changes the visual character by controlling the hue. Explanation Specifies the reference value for hue.
SPLIT/VFX TYPE: Menu item Pb COLOR Pr COLOR MIX LEVEL SPLIT/VFX TYPE: Menu item VALUE MIX LEVEL SPLIT/VFX TYPE:	: MONOCOLOR Value (Bold: default) 0-63 0-63 0-255 : HUE OFFSET Value (Bold: default) 0-180-359 0-255	Turns the video monochrome. Explanation
SPLIT/VFX TYPE: Menu item Pb COLOR Pr COLOR MIX LEVEL SPLIT/VFX TYPE: Menu item VALUE MIX LEVEL	Value (Bold: default)	Turns the video monochrome. Explanation Specifies the color of the edge. Specifies the color of the background. Adjusts the intensity (output level) of the video with the visual effect applied. Changes the visual character by controlling the hue. Explanation Specifies the reference value for hue. Adjusts the intensity (output level) of the video with the visual effect applied.
SPLIT/VFX TYPE: Menu item Pb COLOR Pr COLOR MIX LEVEL SPLIT/VFX TYPE: Menu item VALUE MIX LEVEL SPLIT/VFX TYPE: MIX LEVEL	Value (Bold: default)	Turns the video monochrome. Explanation Specifies the color of the edge. Specifies the color of the background. Adjusts the intensity (output level) of the video with the visual effect applied. Changes the visual character by controlling the hue. Explanation Specifies the reference value for hue. Adjusts the intensity (output level) of the video with the visual effect applied. Changes the visual character by controlling the saturation. Explanation
SPLIT/VFX TYPE: Menu item Pb COLOR Pr COLOR MIX LEVEL SPLIT/VFX TYPE: Menu item VALUE SPLIT/VFX TYPE: Menu item VALUE MIX LEVEL	Value (Bold: default)	Turns the video monochrome. Explanation Specifies the color of the edge. Specifies the color of the background. Adjusts the intensity (output level) of the video with the visual effect applied. Changes the visual character by controlling the hue. Explanation Specifies the reference value for hue. Adjusts the intensity (output level) of the video with the visual effect applied. Changes the visual character by controlling the saturation. Explanation Specifies the reference value for saturation.
SPLIT/VFX TYPE: Menu item Pb COLOR Pr COLOR WIX LEVEL SPLIT/VFX TYPE: Menu item //ALUE WIX LEVEL SPLIT/VFX TYPE: Menu item //ALUE WIX LEVEL SPLIT/VFX TYPE: Menu item //ALUE WIX LEVEL	Value (Bold: default)	Turns the video monochrome. Explanation
SPLIT/VFX TYPE: Menu item Pb COLOR Pr COLOR MIX LEVEL SPLIT/VFX TYPE: Menu item VALUE MIX LEVEL SPLIT/VFX TYPE: Menu item VALUE MIX LEVEL	Value (Bold: default)	Turns the video monochrome. Explanation

6: PinP

PinP 1, 2

Menu item	Value (Bold: default)	Explanation
		Specifies the video source of the inset screen.
PinP SOURCE	HDMI 1–8, STILL 1–8	If MODE is "PinP 1 SOURCE" or "PinP 2 SOURCE", you can also use the PinP SOURCE [1]–[8] buttons to switch this.
	PinP	
PinP TYPE	LUMINANCE-WHITE KEY	Specifies the type of PinP compositing.
PILIPITE	LUMINANCE-BLACK KEY	* The menu items differ for each type.
	CHROMA KEY	

■ PinP TYPE: PinP

Composites the video of the inset screen on top of the background video.

Menu item	Value (Bold: default)	Explanation
COPY SETTINGS FROM PinP 2 (or PinP 1)	EXEC	Copies the other PinP settings.
SWAP SETTINGS FROM PinP 2 (or PinP 1)	EXEC	Exchanges the settings of PinP 1 and PinP 2.
WINDOW	Adjusts the inset screen.	
POSITION H	-50.0- -40.0 -50.0%	Adjusts the inset screen's display position horizontally.
POSITION V	-50.0- -40.0 -50.0%	Adjusts the inset screen's display position vertically.
SIZE	10.0- 35.0 -100.0%	Adjusts the size (zoom) of the inset screen.
CROPPING H	0.0-100.0%	Adjusts the horizontal size of the inset screen.
CROPPING V	0.0-100.0%	Adjusts the vertical size of the inset screen.
SHAPE	RECTANGLE, CIRCLE, DIAMOND	Specifies the shape of the inset screen.
BORDER COLOR	WHITE , YELLOW, CYAN, GREEN, MAGENTA, RED, BLUE, BLACK, SOFT EDGE	Specifies the color of the border for the inset screen. If this is set to "SOFT EDGE", the edge of the inset screen is blurred.
BORDER WIDTH	0- 3 -14	Adjusts the width of the border for the inset screen.
VIEW	Adjusts the video that is shown in the inset screen.	
POSITION H	-50.0 -0.0 -50.0%	Adjusts the horizontal position at which the inset screen is shown.
POSITION V	-50.0- 0.0 -50.0%	Adjusts the vertical position at which the inset screen is shown.
ZOOM	100-400%	Adjusts the zoom of the inset screen.

■ PinP TYPE: LUMINANCE-WHITE KEY

Composites the video by applying a luminance key to the PinP to make its white areas transparent.

Menu item	Value (Bold: default)	Explanation
COPY SETTINGS FROM PinP 2 (or PinP 1)	EXEC	Copies the other PinP settings.
SWAP SETTINGS FROM PinP 2 (or PinP 1)	EXEC	Exchanges the settings of PinP 1 and PinP 2.
WINDOW	Adjusts the inset screen.	
POSITION H	-50.0- -40.0 -50.0%	Adjusts the inset screen's display position horizontally.
POSITION V	-50.0- -40.0 -50.0%	Adjusts the inset screen's display position vertically.
SIZE	10.0- 35.0 -100.0%	Adjusts the size (zoom) of the inset screen.
CROPPING H	0.0-100.0%	Adjusts the horizontal size of the inset screen.
CROPPING V	0.0-100.0%	Adjusts the vertical size of the inset screen.
VIEW	Adjusts the video that is shown in th	ne inset screen.
POSITION H	-50.0- 0.0 -50.0%	Adjusts the horizontal position at which the inset screen is shown.
POSITION V	-50.0- 0.0 -50.0%	Adjusts the vertical position at which the inset screen is shown.
ZOOM	100-400%	Adjusts the zoom of the inset screen.
KEY LEVEL	0- 64 -255	Adjusts the degree of extraction (transparency) for the key.
KEY GAIN	0-255	Adjusts the degree of edge blur (semi-transmissive region) for the key.
MIX LEVEL	0-255	Adjusts the key's overall density (output level).

Menu item	Value (Bold: default)	Explanation
FILL TYPE	BUS, MATTE	If this is "MATTE", the superimposed logo or video is filled-in with the specified color when using key compositing. The fill-in color is specified by "MATTE COLOR" listed below.
MATTE COLOR	WHITE, YELLOW, CYAN, GREEN, MAGENTA, RED , BLUE, BLACK	Specifies the color used when filling-in the superimposed logo or video. * This is valid when "FILL TYPE" is set to "MATTE".
EDGE TYPE	OFF , BORDER, DROP, SHADOW, OUTLINE	Specifies the type of edge applied to the superimposed logo or video.
EDGE COLOR	WHITE, YELLOW, CYAN, GREEN, MAGENTA, RED, BLUE, BLACK	Specifies the color of the edge applied to the superimposed logo or video.
EDGE WIDTH	0-3-14	Specifies the width of the edge applied to the superimposed logo or video.

Composites the video by applying a luminance key to the PinP to make its black ■ PinP TYPE: LUMINANCE-BLACK KEY areas transparent. Menu item Value (Bold: default) **Explanation COPY SETTINGS FROM** EXEC Copies the other PinP settings. PinP 2 (or PinP 1) **SWAP SETTINGS FROM EXEC** Exchanges the settings of PinP 1 and PinP 2. PinP 2 (or PinP 1) **WINDOW** Adjusts the inset screen. **POSITION H** -50.0-**-40.0**-50.0% Adjusts the inset screen's display position horizontally. **POSITION V** -50.0-**-40.0**-50.0% Adjusts the inset screen's display position vertically. SIZE 10.0-**35.0**-100.0% Adjusts the size (zoom) of the inset screen. 0.0-100.0% **CROPPING H** Adjusts the horizontal size of the inset screen. **CROPPING V** 0.0-100.0% Adjusts the vertical size of the inset screen. VIEW Adjusts the video that is shown in the inset screen. **POSITION H** -50.0**-0.0**-50.0% Adjusts the horizontal position at which the inset screen is shown. **POSITION V** -50.0**-0.0**-50.0% Adjusts the vertical position at which the inset screen is shown. ZOOM 100-400% Adjusts the zoom of the inset screen. **KEY LEVEL** 0-64-255 Adjusts the degree of extraction (transparency) for the key. **KEY GAIN** 0-255 Adjusts the degree of edge blur (semi-transmissive region) for the key. MIX LEVEL 0-255 Adjusts the key's overall density (output level). If this is "MATTE", the superimposed logo or video is filled-in with the specified color when using key compositing. **FILL TYPE BUS**, MATTE The fill-in color is specified by "MATTE COLOR" listed below. Specifies the color used when filling-in the superimposed logo or video. WHITE, YELLOW, CYAN, GREEN, **MATTE COLOR** * This is valid when "FILL TYPE" is set to "MATTE". MAGENTA, **RED**, BLUE, BLACK OFF, BORDER, DROP, SHADOW, **EDGE TYPE** Specifies the type of edge applied to the superimposed logo or video. **OUTLINE** WHITE, YELLOW, CYAN, GREEN, **EDGE COLOR** Specifies the color of the edge applied to the superimposed logo or video. MAGENTA, RED, BLUE, BLACK **EDGE WIDTH** 0-3-14 Specifies the width of the edge applied to the superimposed logo or video.

■ PinP TYPE: CHROMA KEY

Composites the video by applying chroma key to the PinP.

Menu item	Value (Bold: default)	Explanation		
COPY SETTINGS FROM PinP 2 (or PinP 1)	EXEC	Copies the other PinP settings.		
SWAP SETTINGS FROM PinP 2 (or PinP 1)	EXEC	Exchanges the settings of PinP 1 and PinP 2.		
WINDOW	Adjusts the inset screen.			
POSITION H	-50.0- -40.0 -50.0%	Adjusts the inset screen's display position horizontally.		
POSITION V	-50.0- -40.0 -50.0%	Adjusts the inset screen's display position vertically.		
SIZE	10.0- 35.0 -100.0%	Adjusts the size (zoom) of the inset screen.		
CROPPING H	0.0-100.0%	Adjusts the horizontal size of the inset screen.		
CROPPING V	0.0-100.0%	Adjusts the vertical size of the inset screen.		
VIEW	Adjusts the video that is shown in	the inset screen.		
POSITION H	-50.0 -0.0 -50.0%	Adjusts the horizontal position at which the inset screen is shown.		
POSITION V	-50.0 -0.0 -50.0%	Adjusts the vertical position at which the inset screen is shown.		
ZOOM	100-400%	Adjusts the zoom of the inset screen.		
KEY LEVEL	0- 64 -255	Adjusts the degree of extraction (transparency) for the key.		
KEY GAIN	0-255	Adjusts the degree of edge blur (semi-transmissive region) for the key.		
MIX LEVEL	0-255	Adjusts the key's overall density (output level).		
CHROMA	Make detailed settings for chroma			
COLOR	GREEN, BLUE	Sets green or blue as the key color (the color to be removed). If you want a color other than green or blue to turn transparent, use "SAMPLING MARKER" to specify the key color.		
HUE WIDTH	-30 -0 -30	Adjusts the hue width for the key color.		
HUE FINE	0- 240 -360	Adjusts the center position of the hue for the key color.		
SATURATION WIDTH	-30 -0 -30	Adjusts the saturation width for the key color.		
SATURATION FINE	0-255	Adjusts the center position of saturation for the key color.		
SAMPLING MARKER	OFF, ON	If this is "ON", a sampling marker (cross-shaped cursor) is shown on the preview output video for you to sample (detect) the key color.		
POSITION II	50.0.500/	When you execute sampling, the setting automatically turns "OFF".		
POSITION H	-50 -0 -50%	Adjusts the horizontal position of the sampling marker.		
POSITION V	-50 -0 -50%	Adjusts the vertical position of the sampling marker.		
SAMPLING EXECUTE	EXEC	Executes key color sampling. The "HUE WIDTH", "HUE FINE", "SATURATION WIDTH", and "SATURATION FINE" settings are adjusted automatically.		
FILL TYPE	BUS, MATTE	If this is "MATTE", the superimposed logo or video is filled-in with the specified color when using key compositing. The fill-in color is specified by "MATTE COLOR" listed below.		
MATTE COLOR	WHITE, YELLOW, CYAN, GREEN, MAGENTA, RED , BLUE, BLACK	Specifies the color used when filling-in the superimposed logo or video. * This is valid when "FILL TYPE" is set to "MATTE".		
EDGE TYPE	OFF , BORDER, DROP, SHADOW, OUTLINE	Specifies the type of edge applied to the superimposed logo or video.		
EDGE COLOR	WHITE, YELLOW, CYAN, GREEN, MAGENTA, RED, BLUE, BLACK	Specifies the color of the edge applied to the superimposed logo or video.		
EDGE WIDTH	0- 3 -14	Specifies the width of the edge applied to the superimposed logo or video.		

7: DSK

Menu item	Value (Bold: default)	Explanation	
	Sets the DSK mode.		
	SELF KEY	Uses the luminance key (brightness) and chroma key (color) to cut out the video image and create a composite by overlaying the video on a background video.	
DSK MODE	ALPHA KEY	Uses alpha channels (areas which contain transparency data) to cut out still images and place them against different background video as a composite.	
	EXTERNAL KEY	Sets the key signal (the shape to be cut out) and the fill video (the video to be composited) separately (external key). This uses the key signal to cut out the fill video and superimpose it on the background video to create the composite.	
	HDMI 1–8, STILL 1 –8		
DSK SOURCE	* When DSK MODE = SELF KEY	Select the source of the logo or image that you want to superimpose.	
D3K 300KCL	STILL 1–8	select the source of the logo of image that you want to superimpose.	
	* When DSK MODE = ALPHA KEY		
KEY SOURCE (*3)	HDMI 1-8, STILL 1-8	Sets the video to use as the key signal (the shape to be cut out).	
FILL SOURCE (*3)	HDMI 1-8, STILL 1-8	Specifies the fill video (the video to be composited) source.	
	Specifies the DSK type used duri		
	LUMINANCE-WHITE	Composite using luminance key.	
	LOWINANCE-WITTE	Makes white portions transparent according to brightness.	
DSK TYPE (*4)	LUMINANCE-BLACK	Composite using luminance key.	
	LOWINANCE-BLACK	Makes black portions transparent according to brightness.	
	CHROMA	Composite using chroma key.	
	CINOWA	Makes the specified key color transparent according to hue.	
DSK LEVEL (*4) 0-64-255 Adjusts the degree of extraction (trans		Adjusts the degree of extraction (transparency) for the key.	
DSK GAIN (*4) 0–255 Adjusts the degree of edge blur (s		Adjusts the degree of edge blur (semi-transmissive region) for the key.	
MIX LEVEL	0-255	Adjusts the key's overall density (output level).	
Make detailed settings for chrom		na key.	
CHROMA	* This can be set if "DSK TYPE" is "CHROMA".		
		Sets green or blue as the key color (the color to be removed).	
COLOR	GREEN, BLUE	If you want a color other than green or blue to turn transparent, use "SAMPLING MARKER" to specify the key color.	
HUE WIDTH	-30 -0 -30	Adjusts the hue width for the key color.	
HUE FINE	0- 240 -360	Adjusts the center position of the hue for the key color.	
SATURATION WIDTH	-30 -0 -30	Adjusts the saturation width for the key color.	
SATURATION FINE	0-255	Adjusts the center position of saturation for the key color.	
SAMPLING MARKER	OFF, ON	If this is "ON", a sampling marker (cross cursor) is shown on the preview output video for you to sample (detect) the key color.	
		When you execute sampling, the setting automatically turns "OFF".	
POSITION H	-50 -0 -50%	Adjusts the horizontal position of the sampling marker.	
POSITION V	-50 -0 -50%	Adjusts the vertical position of the sampling marker.	
SAMPLING EXECUTE	EXEC	Executes key color sampling. The "HUE WIDTH", "HUE FINE", "SATURATION WIDTH", and "SATURATION FINE" settings are adjusted automatically.	
FILLTYPE	BUS, MATTE	If this is "MATTE", the superimposed logo or video is filled-in with the specified color when using key compositing.	
	MULTE VELICION CONTRACTOR	The fill-in color is specified by "MATTE COLOR" listed below.	
MATTE COLOR	WHITE, YELLOW, CYAN, GREEN, MAGENTA, RED , BLUE, BLACK	Specifies the color used when filling-in the superimposed logo or video. * This is valid when "FILL TYPE" is set to "MATTE".	
EDGE TYPE	OFF , BORDER, DROP, SHADOW, OUTLINE	Specifies the type of edge applied to the superimposed logo or video.	
EDGE COLOR	WHITE, YELLOW, CYAN, GREEN, MAGENTA, RED, BLUE, BLACK	Specifies the color of the edge applied to the superimposed logo or video.	
EDGE WIDTH	0- 3 -14	Specifies the width of the edge applied to the superimposed logo or video.	
	-	-	

^(*3) This can be set if "DSK MODE" is "EXTERNAL KEY".

^(*4) This can be set if "DSK MODE" is "SELF KEY".

8: AUDIO INPUT

HDMI IN 1-8, AUDIO INPUT

Menu item	Value (Bold: default)	Explanation	
INPUT LEVEL	-INF- 0.0 -10.0dB	Adjusts the input volume.	
INPUT MUTE	OFF, ON	Turns the mute function on/off. If this is "ON", the input audio is temporarily silenced.	
	Converts the input audio from	stereo to mono.	
	OFF	Sends the stereo input audio without change.	
MONO	L ONLY	The audio of the L channel is sent to both L and R.	
	R ONLY	The audio of the R channel is sent to both L and R.	
	LR MIX	The audio of the L channel and R channel is mixed, and sent to both L and R.	
		Turns the solo function on/off. Only the audio for which this is "ON" is heard in the	
SOLO	OFF, ON	headphones.	
		* The solo function applies to the headphone output. It does not affect output other than the headphones.	
	Specifies an effect preset (high-	-pass filter, compressor, equalizer).	
		ne settings of each effect are overwritten.	
	DEFAULT	For line input (default setting)	
	MEETING	For meetings	
EFFECT PRESET	INTERVIEW	For interviews	
	AMBIENT MIC	For capturing ambient sound	
	WINDY FIELD	For capturing ambient sound in a windy area	
	DE-ESS & POPS SOFT	For reducing sibilants	
	DE-ESS & POPS HARD	For reducing plosives	
DELAY	0.0 –500.0msec	Adjusts the delay time of the audio.	
DELAI	(0.0 –29.9/25.0frame)	Effect This outputs audio with a delay.	
LIICH DACC FILTED 75H-	OFF ON	Turns the high-pass filter on/off.	
HIGH PASS FILTER 75Hz	OFF, ON	Effect Cuts off unneeded low-band audio. The cutoff frequency is 75 Hz.	
NOISE CATE	OFF ON	Turns the noise gate on/off.	
NOISE GATE	OFF, ON	Effect This mutes audio that is below a specified level.	
THRESHOLD	-80.0 50.0 -0.0dB	Specifies the level used as the threshold for removing audio. Audio below the level set here is removed.	
RELEASE	30 -380 -5000ms	Adjusts the length of time until the audio is fully attenuated after audio falls below the threshold.	
		Turns the compressor on/off.	
COMPRESSOR	OFF, ON	Effect This compresses audio that exceeds a specified level.	
		Specifies the level used as the threshold at which the compressor is applied.	
THRESHOLD	-80.0- -50.0 -0.0dB	Compression is applied to audio that exceeds the threshold.	
	1.00: 1, 1.12: 1, 1.25: 1, 1.40: 1,		
RATIO	1.60: 1, 1.80: 1, 2.00: 1, 2.50: 1,	Specifies the degree of compression applied to the audio. The state in which no	
	3.20: 1, 4.00: 1, 5.60 : 1 , 8.00: 1,	compression is applied is defined as "1".	
.==	16.0: 1, INF: 1		
ATTACK	0.2- 1 -100ms	Specifies the time until compression starts when audio exceeding the threshold is input.	
RELEASE	30 –380 –5000ms	Adjusts the length of time until compression ends after audio falls below the threshold.	
		Turns the auto makeup gain feature on/off. If this is "ON", the final output volume level after applying the compressor is	
AUTO GAIN	OFF, ON	automatically adjusted according to the "THRESHOLD" and "RATIO" settings.	
NOTO GAIN		The total of the "MAKEUP GAIN" setting value described below and the value	
		calculated by auto makeup gain becomes the final output volume level	
MAKEUP GAIN	-40- 0 -40dB	(up to +34 dB). Adjusts the final output volume after applying the compressor.	
		Turns the equalizer on/off.	
EQUALIZER	OFF, ON	Effect Adjusts the tone for each frequency band.	
Hi GAIN	-15.0 -0.0 -15.0dB	Boosts or attenuates the high band.	
Hi FREQUENCY	1.0- 10.0 -20.0kHz	Specifies the center frequency when changing the tone in the high band.	
Mid GAIN	-15.0 -0.0 -15.0dB	Boosts or attenuates the middle band.	
		1	

Menu List

Menu item Value (Bold: default)		Value (Bold: default)	Explanation	
Mid FREQUENCY 20.0–500Hz–20.0kHz Specifies the center frequency who		20.0- 500Hz -20.0kHz	Specifies the center frequency when changing the tone in the middle band.	
	Mid Q	0.5 –1.0 –16.0	Adjusts the width of the frequency band when boosting or attenuating the middle band.	
Lo GAIN -15.0-0.0-15.0dB Boosts or attenuates the low band.		Boosts or attenuates the low band.		
	Lo FREQUENCY	20.0- 500Hz -20.0kHz	Specifies the center frequency when changing the tone in the low band.	

9: AUDIO OUTPUT

OUTPUT ASSIGN

Menu item	Value (Bold: default)	Explanation	
		Specifies the audio bu	us that is assigned to each connector.
AUDIO OUT	MASTER OUTPUT, AUX	MASTER OUTPUT:	
		All input audio is mixe	ed and output (master output).
		AUX:	
PHONES OUT	MASTER OUTPUT, AUX	· '	sent to the AUX bus is mixed and output. This allows you to lifferent than the master output.
		AUTO:	
		The audio bus automa	atically switches according to the video bus assignment.
	AUTO, MASTER OUTPUT, AUX	Video bus	Audio bus
HDMI OUTPUT 1–3		Others besides AUX	MASTER OUTPUT
		AUX	AUX

MASTER OUTPUT

Menu item	Value (Bold: default)	Explanation
OUTPUT LEVEL	-INF- 0.0 -10.0dB	Adjusts the output volume.
OUTPUT MUTE OFF ON		Turns the mute function on/off.
		If this is "ON", the output audio is temporarily silenced.
LIMITER	OFF ON	Turns the limiter on or off.
LIMITER	OFF, ON	Effect This limits the output volume so that is does not exceed the set level.
		Adjusts the level that becomes the threshold at which the limiter is applied.
THRESHOLD	-40.0- -6.0 -0.0db	Compression is applied to audio that exceeds the threshold. The volume level of
		audio that is output is limited so as to stay to below the threshold.
EOUALIZER	OFF, ON	Turns the equalizer on/off.
EQUALIZEN	OFF, ON	Effect Adjusts the tone for each frequency band.
Hi GAIN	-15.0- 0.0 -15.0dB	Boosts or attenuates the high band.
Hi FREQUENCY	1.0- 10.0 -20.0kHz	Specifies the center frequency when changing the tone in the high band.
Mid GAIN	-15.0- 0.0 -15.0dB	Boosts or attenuates the middle band.
Mid FREQUENCY	20.0- 500Hz -20.0kHz	Specifies the center frequency when changing the tone in the middle band.
Mid Q	0.5- 1.0 -16.0	Adjusts the width of the frequency band when boosting or attenuating the middle band.
Lo GAIN	-15.0- 0.0 -15.0dB	Boosts or attenuates the low band.
Lo FREQUENCY	20.0- 500Hz -20.0kHz	Specifies the center frequency when changing the tone in the low band.
MULTI BAND	OFF, ON	Turns the multi-band compressor on/off.
COMPRESSOR		Effect Applies separate compressors in individual frequency band.
Hi THRESHOLD	-40.0- -20.0 -0.0dB	Specifies the threshold level at which the compressor is applied to the high band.
HITHESHOLD	-40.0 20.0 -0.00B	Compression is applied to audio that exceeds the threshold.
	1.00: 1, 1.12: 1, 1.25: 1, 1.40: 1,	
Hi RATIO	1.60: 1, 1.80: 1, 2.00: 1, 2.50: 1,	Specifies the amount of compression applied in the high band.
IIIIAIIO	3.20 : 1 , 4.00: 1, 5.60: 1, 8.00: 1,	The state in which no compression is applied is defined as "1".
	16.0: 1, INF: 1	
Mid THRESHOLD	-40.0- -16.0 -0.0dB	Specifies the threshold level at which the compressor is applied to the middle band.
	-40.0- -16.0 -0.00B	Compression is applied to audio that exceeds the threshold.

ı	Menu item	Value (Bold: default)	Explanation
	Mid RATIO	1.00: 1, 1.12: 1, 1.25: 1, 1.40: 1, 1.60: 1, 1.80: 1, 2.00: 1, 2.50: 1 , 3.20: 1, 4.00: 1, 5.60: 1, 8.00: 1, 16.0: 1, INF: 1	Specifies the amount of compression applied in the middle band. The state in which no compression is applied is defined as "1".
	Lo THRESHOLD	-40.0 20.0 -0.0dB	Specifies the threshold level at which the compressor is applied to the low band. Compression is applied to audio that exceeds the threshold.
	Lo RATIO	1.00: 1, 1.12: 1, 1.25: 1, 1.40: 1, 1.60: 1, 1.80: 1, 2.00: 1, 2.50: 1, 3.20: 1, 4.00: 1, 5.60: 1, 8.00: 1, 16.0: 1, INF: 1	Specifies the amount of compression applied in the low band. The state in which no compression is applied is defined as "1".

AUX

Menu item	Value (Bold: default) Expla		Explana	ation	
AUX LEVEL	-INF- 0.0 -10.0dB Adjusts		Adjusts	the output volume of the AUX bus.	
AUX MUTE	OFF ON		Turns th	ne mute function on/off.	
AUX MUTE	OFF, ON		If this is	"ON", the output audio of the AUX bus is temporarily silenced.	
DELAY	0.0 –500.0msec (0.0 –29.9/25.0frame) Adju		Adjusts	the delay time for output audio.	
LIMITED	OFF ON		Turn the	e limiter on/off.	
LIMITER	OFF, ON		Effect	This limits the output volume so that is does not exceed the set level.	
THRESHOLD	-40.0- -6.0 -0.0d	db is applie		the level that becomes the threshold at which the limiter is applied. Compression ed to audio that exceeds the threshold. The volume level of audio that is output is so as to stay to below the threshold.	
	ENTER Di		Display	Displays the following AUX SEND menu.	
	Menu item	Value (Bold:	default)	Explanation	
	AUX SEND -	Selects how	to configu	re the amount of signal sent to the AUX bus for INPUT 1–8.	
AUX SEND		AUTO		Audio is automatically sent to the AUX bus in tandem with the AUX bus video selection.	
	VIDEO	MANUAL		The amount of audio to send is adjusted manually.	
	HDMI IN 1-8	-INF -0dB		Adjusts the amount of audio sent to the AUX bus for each input.	
	AUDIO IN	-INF -OdB		* You can configure HDMI 1–8 when AUX SEND VIDEO is set to "MANUAL".	
	ENTER Display		Display	s the following AUX EFFECT menu.	
	Menu item	Value (Bold:	default)	Explanation	
		Sets whether	er to send audio from each input to the AUX bus with effects applied or not.		
AUX EFFECT		DRY		Sends the source audio with no effects applied.	
	HDMI IN 1-8	PRE FADER		Sends the effect-applied audio.	
	AUDIO IN	. NE I ADEK		The send volume is constant, regardless of the volume (INPUT LEVEL).	
	POST FAI	POST FADER	₹	Sends the effect-applied audio.	
			-	The send volume can be changed by adjusting the volume (INPUT LEVEL).	

10: AUDIO FOLLOW

Menu item	Value (Bold: default)	Explanation	
ALL AUDIO FOLLOW	OFF, ON	Turns on/off the audio follow function for INPUT 1–8 in a single action.	
	Turns the audio follow function on/off. Audio follow is a function that automatically switches the audio output in tandem with video switching.		
INPUT 1-8	OFF	The audio is always output regardless of the video selection.	
	ON	The audio is output only when the video is selected. The audio is automatically muted if another video is selected.	
AUDIO IN OFF, INPUT 1–8		Specifies the input video (INPUT 1–8) that uses audio follow for the audio of AUDIO IN. The audio of AUDIO IN is output only when the specified input video is selected. If this is "OFF", the audio of AUDIO IN is always output regardless of the input video selection.	

11: PRESET MEMORY

Menu item	Value (Bold: default)	Explanation
LOAD	1: MEMORY1–24: MEMORY24 (*5)	Selects the preset memory to load.
		Pressing the [VALUE] knob lets you load the preset memory.
		Selects a preset memory for saving settings. Pressing the [VALUE] knob lets you save the settings to the preset memory.
		* The state of the [OUTPUT FADE] knob and [PHONES] knob (headphone volume) is not saved in preset memory.
SAVE	1: MEMORY1–24: MEMORY24 (*5)	* The following settings menu are common to the unit (one set for the entire
3/142	THEMOTI ZI.MEMOTIZI(3)	unit), and therefore are not saved in preset memory.
		PRESET MEMORY STILL IMAGE CTL/EXP
		• MACRO • FREEZE • USB MEMORY
		SEQUENCER AUTO SWITCHING SYSTEM
INITIALIZE	1: MEMORY1 –24: MEMORY24 (*5)	Selects the preset memory to be initialized.
		Press the [VALUE] knob to initialize the preset memory.
NAME EDIT	1: MEMORY1 –24: MEMORY24 (*5)	Selects the preset memory to be renamed. Press the [VALUE] knob to edit the name.
	Specifies the settings loaded at start	tup.
		Restores the state that was in effect immediately before the power was turned
START UP	LAST MEMORY	off (Last Memory function). The current settings (Last Memory values) are saved every 4 seconds, and
		when you exit a menu.
	1: MEMORY1-24: MEMORY24 (*5)	Recall the settings at the selected memory number.
MEMORY PROTECT	OFF, ON	When this is "ON", prohibits settings from being saved or initialized. This protects
		the preset memories. Shows a list of the preset files (.V08preset) that are on the USB flash drive.
LOAD FROM USB MEMORY	ENTER	You can select a preset file and load the preset memory (1–24) into the unit.
		Shows a list of the preset files (.V08preset) that are on the USB flash drive.
SAVE TO USB MEMORY	ENTER	You can select the preset file used to overwrite the preset memory (1–24). If
	NA/L AAFAAODY : L t L t b FAA	you selected "NEW FILE", a new preset file is saved.
	8	IODE] button, this sets how many buttons function as memory selection buttons. Preset memory 1–8: MEMORY [1]–[8] buttons
NUMBER OF MEMORY SW		Preset memory 1–8: MEMORY [1]–[8] buttons
NOMBER OF MEMORE SW	24	Preset memory 9–16: Cross-point A [1]–[8] buttons
		Preset memory 17–24: Cross-point B [1]–[8] buttons
FADETIME	0.0 –4.0sec	Specifies the time of the transition when loading a preset memory.
MIX/WIPE	OFF, ON	
PinP 1	OFF, ON	Switches the transition effect on/off.
PinP 2	OFF, ON	Switches the transition effect on you.
DSK	OFF, ON	
LOAD PARAMETER	'	oplied when a preset memory is recalled.
VIDEO INPUT	OFF, ON	
VIDEO OUTPUT	OFF, ON	
TRANSITION TIME	OFF, ON	
MIX/WIPE	OFF, ON	Menu items for which this is "OFF" do not change when a preset memory is
SPLIT/VFX	OFF, ON	recalled.
PinP	OFF, ON	
DSK	OFF, ON	
VIDEO CROSSPOINT	OFF, ON	Cuitabas ubathavta land the vide - Cultura - ities to contact (NUTALIZE)
VIDEO FADER	INITIALIZE, ON	Switches whether to load the video fader position in a reset state (INITIALIZE) or to reproduce its state when the preset memory was saved (ON).
AUDIO INPUT	OFF, ON	Manu itana farushish this is "OFF" da a a talan a a
AUDIO OUTPUT	OFF, ON	Menu items for which this is "OFF" do not change when a preset memory is recalled.
110210 0011 01		J (e(alle().

^(*5) If you edited a preset memory's name using "NAME EDIT", the edited name is shown.

12: MACRO

Menu item	Value (Bold: default)	Explanation		
EXECUTE	1: DEMO 1- 100: MACRO100 (*6)	Select a macro (a series of recorded operations) to execute. Press the [VALUE] knob to execute the macro. If MODE is macro (the [MODE] button is lit orange), you can use the AUX / PinP SOURCE / MEMORY [1]–[8] buttons to execute macros 1–8.		
INITIALIZE	ALL, 1: DEMO 1 – 100: MACRO100 (*6)	Selects the macro to be initialized. Press the [VALUE] knob to initialize the macro.		
	1: DEMO 1 – 100: MACRO100 (*6)	Selects the macro to e Press the [VALUE] kno	edit. ob to show the operations recorded in the macro.	
	Menu item	Value	Explanation	
LIST EDIT	1: (operation name)– 10: (operation name)	_	Shows the list of operations recorded in the macro. "" is shown if no operations are recorded. Select an operation or "ADD NEW FUNCTION" and press the [VALUE] knob to display the FUNCTION EDIT menu (p. 80) for editing the operation.	
	PREVIEW	EXEC	Previews the macro.	
	COPY MACRO TO	1: DEMO 1– 100: MACRO100 (*6)	Specifies the macro copy source. Press the [VALUE] knob to copy the macro.	
	SWAP MACRO WITH	1: DEMO 1– 100: MACRO100 (*6)	Specifies the macro swap destination. Press the [VALUE] knob to swap the macro.	
NAME EDIT	1: DEMO 1- 100: MACRO100 (*6)	Selects the macro to be renamed. Press the [VALUE] knob to access the screen for editing the name.		
LOAD FROM USB MEMORY	ENTER	Shows a list of the macro setting files (.RMF) that are on the USB flash drive. You can select a macro setting file and load the macro (1–100) into the unit.		
SAVE TO USB MEMORY	ENTER	Shows a list of the macro setting files (.RMF) that are on the USB flash drive. You can select the macro settings file used to overwrite the macro (1–100) to the USB flash drive. If you selected "NEW FILE", a new macro settings file is saved.		
	When "MACRO" is selec	ted on the [MODE] but	ton, this sets how many buttons function as macro selection buttons.	
	8	Macro 1–8: AU	(/ PinP SOURCE / MEMORY [1]–[8] buttons	
NUMBER OF MACRO SW		Macro 1–8: AU	(/ PinP SOURCE / MEMORY [1]–[8] buttons	
	24		ss-point A [1]–[8] buttons,	
			ss-point B [1]–[8] buttons	
	ENTER	Displays the following		
	Specifies the macro as			
SW ASSIGN	Menu item	Value	Explanation	
	MACRO 1-8	1: DEMO 1-	AUX / PinP SOURCE / MEMORY [1]–[8] buttons	
	PGM/A 1–8 (*7) PST/B 1–8 (*7)	100: MACRO100 (*6)	Cross-point A [1]–[8] buttons Cross-point B [1]–[8] buttons	
	131/01 0(7)		cross point o [1] fol pattons	

^(*6) If you edited a macro's name using "NAME EDIT", the edited name is shown.

^(*7) This can be set if "NUMBER OF MACRO SW" is "24".

FUNCTION EDIT

Menu item	Value (Bold: default)	Explanation
FUNCTION	PGM TAKE PGM/PST SELECT SPLIT POSITION AUX SELECT INPUT ASSIGN TRANSITION TIME TRANSITION TYPE PinP ON/OFF PINP SOURCE PINP WINDOW DSK ON/OFF DSK SOURCE SPLIT/VFX ON/OFF SPLIT/VFX ON/OFF SPLIT/VFX TYPE AUDIO INPUT LEVEL AUDIO OUTPUT LEVEL AUDIO OUTPUT MUTE PRESET MEMORY PRESET MEMORY OUTPUT FADE DSK ON/OFF REC CONTROL SPLIT/VFX ON/OFF	Sets the operation to record to the macro. * The related menu is shown according to the operation you set. WAIT: Sets the waiting time before the next operation is executed.
	Sets the timing of the operation to execute.	
TIMING	AFTER PREVIOUS	The function is executed after the preceding one. The next sequential list number is used.
	SAME AS PREVIOUS	Executes the operation at the same time as the preceding one. The same list number as the previous operation is used.
MOVE THIS FUNCTION	ENTER	Moves the operation being edited and resorts the list.
COPY THIS FUNCTION	ENTER	Copies the operation being edited into a position in the list you desire.
DELETE THIS FUNCTION	EXEC	Deletes the operation being edited.

13: SEQUENCER

Menu item	Value (Bold: default)	Explanation	Explanation			
SEQUENCER	OFF, ON	Turns the sequencer function on/off.				
REPEAT EXECUTE	OFF, ON	When this is "ON", the recorded operation is repeatedly executed.				
ALITO CEOLIENCE	OFF ON	Turns the auto sequence function on/off.				
AUTO SEQUENCE	OFF, ON	* This is valid when "SEQUENCER" is set to "ON".				
		Shows a list of op	perations recorded in the sequencer.			
	ENTER		ion or "ADD NEW FUNCTION" and press the [VALUE] knob to show the			
		following FUNCT	TION EDIT menu, where you can edit the operation.			
	Menu item	Value	Explanation			
		Sets the operation to	o record to the sequencer.			
		The related menu is	shown according to the operation you set.			
	FUNCTION	PGM TAKE	Switches the final output video.			
		PRESET MEMORY	Recalls a preset memory.			
		MACRO	Executes a macro (a series of recorded operations).			
	NAME	_	Shows the name of the operation.			
LIST EDIT		Sets how naming is done.				
	EDIT	AUTO	Names are automatically given.			
		CUSTOM	Names can be assigned as you like.			
		COSTOW	Press the [VALUE] knob to access the screen for editing the name.			
		Sets the operation w	hen auto sequence is on.			
	AUTO SEQUENCE	PAUSE	Pauses the auto sequence.			
		AUTO	Executes the next operation in the sequence.			
		1- 5 -120sec	Executes the next operation after delaying for a specified amount of time.			
	MOVE THIS FUNCTION	ENTER	Moves the operation being edited and resorts the list.			
	COPY THIS FUNCTION	ENTER	Copies the operation being edited into a position in the list you desire.			
	DELETE THIS FUNCTION	ENTER	Deletes the operation being edited.			
INITIALIZE	EXEC	Initializes the sec	quencer.			
		Shows a list of the sequence files (.SEQ) that are on the USB flash drive.				
LOAD FROM USB MEMORY	ENTER	You can select a sequence file to load the sequencer settings into this unit. The current				
		sequencer settings are overwritten.				
		<u> </u>	e seguence files (.SEQ) that are on the USB flash drive.			
SAVE TO USB MEMORY	ENTER		sequence file to overwrite the current sequencer settings. If you selected			
		"NEW FILE", a new sequence file is saved.				
						

14: STILL IMAGE

Menu item	Value (Bold: default)	Explanation		
LOAD FROM USB MEMORY	STILL 1–8	Loads a still image from a USB flash drive and saves it in this unit. Specifies the save-destination for the still image that is loaded from the USB flash drive. If a still image is already saved, an "*" is shown. When you press the [VALUE] knob, a list of the still images on the USB flash drive is shown. Select the still image that you want to load, and press the [VALUE] knob to save the still image in this unit.		
SAVE TO USB MEMORY	STILL 1-8	Saves a still image captured from the input video to a USB flash drive. Select the still image memory ("STILL 1"-"STILL 8") that you want to save. Memories in which a still image is saved are indicated by a "*" symbol. Select the FILE TYPE (file format), and enter a file name. Select "SAVE", and then press the [VALUE] knob to save the still image to the USB flash drive. * An image captured while HDCP is ON cannot be saved.		
SAVE TO INTERNAL STORAGE	Use this to set whether DISABLE	r to save still images you've captured or loaded to this unit's internal memory. Temporarily saves still images to internal memory. This lets you capture images while the audio is still playing. * When you turn off the power, the still image is deleted.		
DELETE STILL IMAGE	ALL, STILL 1–8	Saves still images to internal memory. * All audio stops during still-image capture. Selects the still images to delete. Press the [VALUE] knob to delete the still images.		

15: FREEZE

Menu item	Value (Bold: default)	Explanation		
FREEZE	OFF, ON	Turns the freeze function on/off. If this is "ON", the input video is temporarily frozen. If "FREEZE" is assigned to the USER [1] or [2] button, you can also switch this by pressing the button.		
	Specifies the type of f	reeze function.		
TYPE	ALL	Freezes all video that is being input.		
	SELECT	Freezes only the specified input video.		
HDMI IN 1–8	ENABLE, DISABLE	For each input, specifies whether the freeze function is enabled (ENABLE) or disabled (DISABLE). * This is shown if TYPE is "SELECT".		

16: AUTO SWITCHING

Menu item	Value (Bold: default)	Explanation
AUTO SWITCHING	OFF, ON	Turns the auto switching function on/off. If this is "ON", the INPUT 1–8 video or preset memory are switched automatically. If "AUTO SWITCHING" is assigned to the USER [1] or [2] button, you can also switch this by pressing the button.
ТҮРЕ	INPUT SCAN PRESET MEMORY SCAN BPM SYNC	Specifies the type of auto switching function. * The menu items differ for each type.

■ TYPE: INPUT SCAN

Automatically switches to the video of INPUT 1–8 when the specified time elapses.

Menu item	Value (Bold: default)	Explanation			
	Specifies the order in which video	Specifies the order in which video signals are shown.			
	Channels that have no video input	t are skipped.			
SCAN SEQUENCE	NORMAL	Switches in the order of INPUT 1 \rightarrow 8.			
	REVERSE	Switches in the order of INPUT $8 \rightarrow 1$.			
	RANDOM	Switches randomly.			
SCAN TRANSITION TIME	0.0- 1.0 -4.0sec	Specifies the video transition time.			
Specifies the video bus in which video transition.		ideo transition.			
SCAN TARGET	A/B	Switches between A/PGM bus and B/PST bus.			
	PinP 1, PinP 2	Switches the video you want to make the inset screen of the PinP 1 or PinP 2.			
INPUT 1–8 TIME	OFF, 1- 5 -120sec	Specifies the time that the video is shown.			
INPUT T-O TIME	OFF, 1-3-120SeC	If this is "OFF", video switching does not affect the input.			

■ TYPE: PRESET MEMORY SCAN

This automatically switches between preset memories 1–8. The video and audio are switched according to the settings that are saved in each preset memory.

Menu item	Value (Bold: default)	Explanation		
	Specifies the order in which preset memories are switched.			
	* Preset memories in which no set	tings have been saved are skipped.		
SCAN SEQUENCE	NORMAL	Switches in the order of preset memory $1 \rightarrow 24$.		
	REVERSE	Switches in the order of preset memory 24 → 1.		
	RANDOM	Switches randomly.		
MEMORY 1–24 TIME	OFF, 1– 5 –120sec	Specifies the time that the video is shown. If this is "OFF", video switching does not affect the input.		

■ TYPE: BPM SYNC

This automatically switches the video at specified BPM intervals.

Menu item	Value (Bold: default)	Explanation	
BPM	20- 120 -250	Specifies the BPM.	
Specifies how the picture is switched.		ed.	
MODE	TRANSITION The picture switches using the currently selected transition effect (mix or wi		
	CUT	The picture switches instantly.	
SPEED	x1/4, x1/2, x1 , x2	Specifies the picture switching speed as a multiple of the specified BPM.	

17: CTL/EXP

CTL/EXP 1, 2

Menu item	Value (Bold: default)	Explanation					
	Specifies the device (for	otswitch, expression pedal) that is connected to the CTL/EXP jack.				
CTL/EXP TYPE	OFF	Disables the CTL/EXP jac					
	CTL A & CTL B	Choose this if a footswitch is connected.					
	EXP	Choose this if an expression pedal is connected.					
	Specifies the functions	·	and CTL B of the footswitch.				
ASSIGN		_/EXP TYPE" is set to "CTL A					
	CATEGORY	VALUE	Explanation				
	N/A		No function is assigned.				
	A/PGM CH SELECT	INPUT 1–8	Switches the video sent to the A/PGM bus.				
	B/PST CH SELECT	INPUT 1–8	Switches the video sent to the B/PST bus.				
	AUX CH SELECT	INPUT 1–8	Switches the video sent to the AUX bus.				
	INPUT ASSIGN	INPUT 1–8	Each time you press the footswitch, the video source of the specified input channel switches.				
	STILL OUTPUT	STILL 1–8	Pauses the normal output, and preview/final outputs a cut of the still image.				
	PinP 1, 2 SOURCE	HDMI 1–8, STILL 1–8	Switches the video shown in the PinP 1 or PinP 2 inset screen.				
	DSK SOURCE	HDMI 1–8, STILL 1–8	Switches the DSK video source.				
	SW CONTROL	CUT SW, AUTO SW TRANSITION SW MODE SW SPLIT/VFX A, B SW PinP 1, 2 PVW SW PinP 1, 2 ON SW DSK PVW SW DSK ON SW USER 1, 2 SW	This works the same as when you press the button selected in "VALUE".				
		▲ AUTO TAKE ▼	Automatically switches the A/ PGM/ bus and B/PST bus videos.				
CTL A	TAKE	▲ CUT ▼	Switches the video between PGM/A bus and PST/B bus as a cut.				
CTL B	AUDIO INPUT MUTE	HDMI IN 1–8, AUDIO IN	Turns the mute function on/off for the input audio.				
	AUDIO OUTPUT MUTE	MASTER OUTPUT, AUX	Turns the mute function on/off for the output audio.				
	AUDIO INPUT SOLO	HDMI IN 1–8, AUDIO IN	Turns the solo function on/off for the input audio.				
	OUTPUT FADE	LEFT, RIGHT	The same function as turning the [OUTPUT FADE] knob to the left or right.				
	LOAD MEMORY	MEMORY 1–24	Recalls a preset memory.				
	INPUT SCAN	NORMAL	Each time you press the footswitch, the final output switches from INPUT 1–8 in sequential order.				
	INPUT SCAN	REVERSE	Each time you press the footswitch, the final output switches from INPUT 1–8 in reverse order.				
	MEMORY SCANI	NORMAL	Each time you press the footswitch, preset memories 1–24 are recalled in sequential order.				
	MEMORY SCAN	REVERSE	Each time you press the footswitch, preset memories are recalled in reverse order from 24 through 1.				
	MACRO EXECUTE	MACRO 1-100	Executes a macro (a series of recorded operations).				
		MODE ON/OFF	Turns sequencer function on/off.				
	SEOLIENCED	NEXT	When the sequencer function is on, the same operation as when you press the [AUTO] button.				
9	SEQUENCER	PREVIOUS	When the sequencer function is on, the same operation as when you press the [CUT] button.				
		AUTO SEQUENCE	Turns the auto sequence function on/off.				

Menu item	Value (Bold: default)	Explanation			
	Specifies the function that is assigned to the expression pedal. * This is valid when "CTL/EXP TYPE" is set to "EXP".				
	CATEGORY	VALUE	Explanation		
	N/A		No function is assigned.		
	VIDEO FADER	FADE	Operates the video fader.		
EXP	VIDEOTABLE	▲ CUT ▼	Switches the video between A/PGM bus and B/PST bus as a cut.		
EXI	VFX MIX LEVEL VFX A, VFX B		Adjusts the density (output level) of the video that is processed by the visual effect A or B.		
	OUTPUT FADE	LEFT, RIGHT	The same function as turning the [OUTPUT FADE] knob to the left or right.		
	STILL OUTPUT	STILL 1–8	Pauses the normal output, and previews or final outputs a cut of the still image.		
	AUDIO INPUT LEVEL	HDMI IN 1–8, AUDIO IN	Adjusts the input volume.		
	AUDIO OUTPUT LEVEL	MASTER OUTPUT, AUX	Adjusts the output volume.		
		Displays the EXP CALIBRATE screen.			
		Following the direction on the screen, calibrate (adjust) the expression pedal.			
		The first time you use the expression pedal, be sure to execute calibration so that the pedal will			
EXP CALIBRATE	ENTER	operate optimally.			
		In some cases, the expression pedal might no longer be operating optimally because of the passage of time or the conditions of use. In such cases you should also execute expression pedal calibration.			
		* This is valid when "CTL/EXP TYPE" is set to "EXP".			

18: USB MEMORY

Menu item	Value (Bold: default)	Explanation	
RESTORE ALL SETTINGS	ENTER	This loads settings that are in a preset memory saved on a USB flash drive. When you press the [VALUE] knob, a list of the files in the USB flash drive appears. When you select the file that you want to recall and press the [VALUE] knob, the contents of this unit are overwritten.	
BACKUP ALL SETTINGS	ENTER	Saves the current settings as a file on the USB flash drive. When you press the [VALUE] knob, a list of the files in the USB flash drive appears. If you are saving as a new file, select "NEW FILE" and enter a file name. If you are overwriting an existing file, select that file in the list. When you press the [VALUE] knob, the file is saved to the USB flash drive.	
FORMAT	EXEC	Formats the USB flash drive. When you press the [VALUE] knob, format is executed.	

19: SYSTEM

Menu item	Value (Bold: default)	Explanation	Explanation			
		Specifies whether	er HDCP is enabled (ON) or disabled (OFF).			
		When set to "ON	When set to "ON", copyright-protected (HDCP) video can be input.			
HDCP	OFF, ON		HDCP is also added to the video that is output.			
			* When you change the setting, the change is not applied until you press the [VALUE] knob to confirm.			
	60, 59.94, 50, 30, 29.97, 25,	Specifies the fran				
FRAME RATE	24, 23.976Hz	* A change in thi	is setting does not take effect until you press the [VALUE] knob to nen restart the unit.			
			tem format for the V-8HD.			
SYSTEM FORMAT	1080p , 1080i, 720p		nge the setting, the change is not applied until you press the [VALUE]			
	Specifies the function of the	knob to confirm	n.			
	▲ AUTO TAKE		of the B/PST bus is selected, switches to the video of the A/PGM bus.			
	▲ AUTO TAKE ▼		eo between A/PGM bus and B/PST bus.			
	AOTO TARL V		of the B/PST bus is selected, switches to the video of the A/PGM bus as a			
CUT SW ASSIGN	▲ CUT	cut.	of the D/1 31 bus is selected, switches to the video of the A/1 divibus as a			
	▲ CUT ▼	Switches the vid	eo between A/PGM bus and B/PST bus as a cut.			
	▲ TRANSFORM	Switches to the v	video of the A/PGM bus as a cut only while you're holding down the			
	Specifies the function of th	ne [AUTO] button.				
	AUTO TAKE ▼	When the video	of the A/PGM bus is selected, switches to the video of the B/PST bus.			
	▲ AUTO TAKE ▼	Switches the vid	eo between A/PGM bus and B/PST.			
AUTO SW ASSIGN	CUT ▼	When the video o	of the A/PGM bus is selected, switches to the video of the B/PST bus as a			
	▲ CUT ▼	Switches the vid	eo between A/PGM bus and B/PST as a cut.			
	TRANSFORM ▼	Switches to the v	video of the B/PST bus as a cut only while you're holding down the			
PANEL OPERATION	A/B, PGM/PST		eration mode for video transitions.			
EFFECTS TRANSITION SYNC	OFF, ON	transitions. When this is "ON transitions. The c	PinP/DSK composites are switched on and off in tandem with the video ", the PinP/DSK composition turn on/off in tandem with the video composited result that is previewed is sent to final output when			
		transitioning to a different video.				
	ENTER	, ,	owing PANEL LOCK menu.			
	Enable (ON) or disable (OFF) the panel lock.					
	Menu item	Value (Bold: default)	Explanation			
	ALL SW & VOLUME	OFF, ON	Turns on/off the settings of the following buttons and knobs in a single action.			
	A/PGM 1–8 SW	OFF, ON	Cross-point A [1]–[8] buttons			
	B/PST 1–8 SW CUT SW	OFF, ON	Cross-point B [1]–[8] buttons [CUT] button			
	AUTO SW	OFF, ON	[AUTO] button			
	MODE SW	OFF, ON	[MODE] button			
	AUX SW	OFF, ON	AUX [1]–[8] buttons			
	PinP 1 SOURCE SW	OFF, ON	PinP 1 [1]–[8] buttons			
DANIEL LOCK	PinP 2 SOURCE SW	OFF, ON	PinP 2 [1]–[8] buttons			
PANEL LOCK	MEMORY SW	OFF, ON	MEMORY [1]–[8] buttons			
	MACRO SW	OFF, ON	AUX / PinP SOURCE / MEMORY [1]–[8] buttons			
	TRANSITION SW	OFF, ON	[TRANSITION] button			
	VIDEO FADER	OFF, ON	Video fader			
	SPLIT/VEX A BLOCK	OFF, ON	SPLIT/VFX [A] knob/button			
	SPLIT/VFX B BLOCK PinP 1 BLOCK	OFF, ON OFF, ON	SPLIT/VFX [B] knob/button PinP 1's [POSITION H] knob, [POSITION V] knob, [PVW] button, [ON] button			
	PinP 2 BLOCK	OFF, ON	PinP 1's [POSITION H] knob, [POSITION V] knob, [PVW] button, [ON] button			
	DSK BLOCK	OFF, ON	DSK's [LEVEL] knob, [GAIN] knob, [PVW] button, [ON] button			
	USER 1 SW	OFF, ON	USER [1] button			
	USER 2 SW	OFF, ON	USER [2] button			
	CAPTURE IMAGE SW	OFF, ON	[CAPTURE IMAGE] button			
	OUTPUT FADE	OFF, ON	[OUTPUT FADE] knob			
		•				

Menu item	Value (Bold: default)	Explanation					
	Specifies whether the same video as the PGM bus is sent to the AUX bus (AUX link).						
	OFF	Use the AUX [1]-[8] butt	ons to select the video of the AUX bus.			
		AUX link is enabled, and the same video as the PGM bus is sent to the AUX bus.					
		Temporarily d	lisabling <i>l</i>	AUX link			
			_	[1]–[8] button, the selection of the AUX [1]–[8] button is			
AUX LINKED PGM	AUTO LINK	enabled (lit gre	een).				
	MANUAL LINK	Re-enabling A	NUX link				
		When you operate the [AUTO] button etc. to switch the video of					
		the PGM bus, AUX link is automatically enabled.					
		MANUAL LINK	, ,	press the AUX [1]–[8] button that is currently selected AUX link is enabled.			
	Specifies the functions that	accur whon you		OUTPUT FADE] knob to the left (TURN LEFT) or to the right			
OUTPUT FADE ASSIGN	(TURN RIGHT).	occur when you	turn the t	OUTPUT PADE; know to the left (TOKN LEFT) of to the right			
	BLACK	Fade out to bla	ick.				
	WHITE	Fade out to wh	nite.				
	AUDIO	Adjust the volu	ıme of the	e output audio.			
TURN LEFT		-		e fade-to-black and the output audio volume adjustment			
TURN RIGHT	BLACK&AUDIO (TURN LEFT)	functions.		<u> </u>			
	WHITE&AUDIO (TURN RIGHT)	Simultaneously functions.	Simultaneously apply the fade-to-white and the output audio volume adjustment functions.				
	STILL 1–8 OUTPUT	Outputs the sp	ecified sti	II image.			
USER 1 SW USER 2 SW	Specifies the function of the	USER [1] [2] but	tons.				
	CATEGORY	VALUE		Explanation			
	N/A			No function is assigned.			
	FREEZE (USER 1)			Turns the freeze function on/off.			
	AUTO SWITCHING (USER 2)	AUTO SWITCH	IING SW	Turns the auto switching function on/off.			
		ВРМ ТАР		If AUTO SWITCHING is "BPM SYNC", you can set the BPM according to the tempo at which you press the button.			
	INPUT ASSIGN	INPUT 1–8		Each time you press a button, the video source of the specified input channel switches.			
	STILL OUTPUT	STILL 1–8		Pauses the normal output, and preview/final outputs a cut of the still image.			
	AUDIO INPUT MUTE	HDMI 1–8, AUI	DIO IN	Turns the mute function on/off for the input audio.			
	AUDIO OUTPUT MUTE	MASTER OUTP	UT, AUX	Turns the mute function on/off for the output audio.			
ACCION		NORMAL		Each time you press a button, the final output switches from INPUT 1–8 in sequential order.			
ASSIGN	INPUT SCAN	REVERSE		Each time you press a button, the final output switches from INPUT 1–8 in reverse order.			
		NODAAAI		Each time you press a button, preset memories 1–24 are			
	MEMORY SCAN N	NORMAL		recalled in sequential order.			
	WEMONI SCANN	REVERSE		Each time you press a button, preset memories are recalled in reverse order from 24 through 1.			
	REC CONTROL			Controls the recorder's video record start/stop if a recorder that supports HDMI REC TRIGGER functionality is connected.			
		MODE ON/OFF	:	Turns sequencer function on/off.			
		NEVE		When the sequencer function is on, the same operation as			
	SEQUENCER	NEXT		when you press the [AUTO] button.			
		PREVIOUS		When the sequencer function is on, the same operation as when you press the [CUT] button.			
		AUTO SEQUEN	CE	Turns the auto sequence function on/off.			
LED DIMMER	1-8	Adjusts the bri	ghtness w	rhen the buttons or indicators are lit.			
LCD DIMMER	1-8	Adjusts the bri	ghtness o	f this unit's display.			
ON SCREEN MENU	UPPER LEFT, UPPER RIGHT, LOWER LEFT, LOWER RIGHT	Specifies the location of the OSD menu displayed on the multi-view monitor.					
TALLY FRAME	OFF, ON	Specifies whetl	Specifies whether the tally frame is visible (ON) or hidden (OFF) in the multi-view monitor.				
		1					

Menu item	Value (Bold: default)	Explanation				
		If this is "ON", a	symbol is showi	n in the CH 1–8 section of t	ne multi-view monitor.	
		[MODE] button	Mark color	Explanation		
AUX/PinP INDICATOR	OFF, ON	AUX	Green	Input channel being sent to the	ne AUX bus	
		PinP 1 SOURCE	Yellow	Input channel specified as the	PinP 1 source image	
		PinP 2 SOURCE	Magenta	Input channel specified as the	PinP 2 source image	
REC INDICATOR	OFF, ON		n has been press		nown (OFF) to indicate that a that supports the HDMI REC	
AUDIO LEVEL METER	OFF, ON	Specifies whe view monitor.	ther the audio le	vel meter is shown (ON) or	r not shown (OFF) in the multi-	
AUDIO IN	OFF , LOWER, UPPER	shown (OFF).			wn (LOWER or UPPER) or not	
MULTI-VIEW LABEL	OFF, ON				OFF) in the multi-view monito	
MULTI-VIEW LABEL EDIT	HDMI 1 –8, STILL 1–8, PROGRAM, PREVIEW, AUX			the multi-view monitor. less the MULTI-VIEW LABEL	EDIT screen.	
MULTI-VIEW LABEL SIZE	SMALL, NORMAL	Specifies the t	ext size of the la	bel shown in the multi-vie	w monitor.	
	Specifies the screen layou	t of the PVW secti	on and PGM sect	tion shown in the multi-vie	ew monitor.	
	PVW.PGM	PGM.PVW		BLACK.PGM	PGM.BLACK	
MULTI-VIEW LAYOUT	PVW PGM	PGM PV		PGM The PVW section is not shown.	PGM The PVW section is not shown.	
	ENTER	Displays the fo	ollowing OUTPU	T 3 OSD menu.	<u>. </u>	
	Menu item Value (Bold: default) Explanation					
	ON SCREEN MENU	OFF, ON		he menu is shown (ON) or not s	hown (OFF).	
OUTPUT 3 OSD	TALLY FRAME	OFF, ON	•	he tally frame is visible (ON) or h	idden (OFF) in the multi-view monitor LTI-VIEW".	
	LABEL/LEVEL METER/MARK	OFF, ON	multi-view monitor	he "label", "audio level meter", "AU are shown (ON) or not shown (O n "OUTPUT ASSIGN" is set to "MU	•	
AUTO INPUT DETECT	OFF, ON	If this is "ON", a	and the video th	nput detect function on/off. d the video that is being output as the program disappears, the atically switches to another input video.		
AUTO OFF	OFF, ON	If this is "ON", 1 states persist • No operatio • No audio or	Turns the Auto Off function on/off. If this is "ON", the power to the V-8HD turns off automatically when all of the following states persist for 240 minutes. • No operation performed on the V-8HD • No audio or video input			
	No equipment is connected to the OUTPUT connectors		;			
	S 15 11 1	• No equipme	nt is connected	to the OUTPUT connectors	,	
	Specifies the test pattern. OFF , 75% COLOR BAR,					
TEST PATTERN	OFF , 75% COLOR BAR, 100% COLOR BAR, RAMP, STEP, HATCH	Selects the te	st pattern to disp	olay.		
	OFF, 75% COLOR BAR, 100% COLOR BAR, RAMP, STEP, HATCH DISABLE, SLOW, FAST	Selects the te		olay.		
TEST TONE	OFF, 75% COLOR BAR, 100% COLOR BAR, RAMP, STEP, HATCH DISABLE, SLOW, FAST Specifies the test tone.	Selects the tes	st pattern to disp scroll speed of th	olay. e test pattern.		
TEST TONE LEVEL	OFF, 75% COLOR BAR, 100% COLOR BAR, RAMP, STEP, HATCH DISABLE, SLOW, FAST Specifies the test tone. OFF, -20dB, -10dB, 0dB	Selects the test	st pattern to disp scroll speed of th volume level of t	e test pattern. he test tone.		
TEST TONE LEVEL FREQUENCY L	OFF, 75% COLOR BAR, 100% COLOR BAR, RAMP, STEP, HATCH DISABLE, SLOW, FAST Specifies the test tone. OFF, -20dB, -10dB, 0dB 400Hz, 1kHz, 2kHz	Specifies the so	st pattern to disp scroll speed of th rolume level of t frequency of the	olay. le test pattern. he test tone. test tone for the L-channe	I.	
TEST TONE LEVEL	OFF, 75% COLOR BAR, 100% COLOR BAR, RAMP, STEP, HATCH DISABLE, SLOW, FAST Specifies the test tone. OFF, -20dB, -10dB, 0dB	Specifies the specifies the specifies the factors and specifies the factors are specified to the fact	st pattern to disp scroll speed of the volume level of t frequency of the frequency of the	olay. e test pattern. he test tone. test tone for the L-channe test tone for the R-channe	I.	
TEST TONE LEVEL FREQUENCY L	OFF, 75% COLOR BAR, 100% COLOR BAR, RAMP, STEP, HATCH DISABLE, SLOW, FAST Specifies the test tone. OFF, -20dB, -10dB, 0dB 400Hz, 1kHz, 2kHz	Specifies the specifies the specifies the final Specifies the fina	st pattern to dispose croll speed of the volume level of the requency of the IDEO FADER SET instructions on the pecause of controls.	he test pattern. he test tone. test tone for the L-channe test tone for the R-channe screen. the screen, calibrate (adjustinued use or transport, the video fader all the way to	I. I. st) the video fader.	
TEST TONE LEVEL FREQUENCY L FREQUENCY R	OFF, 75% COLOR BAR, 100% COLOR BAR, RAMP, STEP, HATCH DISABLE, SLOW, FAST Specifies the test tone. OFF, -20dB, -10dB, 0dB 400Hz, 1kHz, 2kHz 400Hz, 1kHz, 2kHz	Specifies the specifies the specifies the specifies the final Displays the V Following the In some cases reach 100% evideo fader care	st pattern to dispose of the volume level of the requency of the IDEO FADER SET instructions on the ven if you slide the set of the ven if you slide the set of the s	he test pattern. he test tone. test tone for the L-channe test tone for the R-channe screen. the screen, calibrate (adjustinued use or transport, the video fader all the way to	I. I. st) the video fader. e video output might not	

List of Shortcut Keys

You can set the following items without showing a menu.

Menu item	Operation	Remarks	
MIX/WIPE			
MIX TYPE	Hold down the [TRANSITION] button and turn the SPLIT/VFX [A] knob	TRANSITION TYPE: MIX	
WIPE TYPE	Hold down the [TRANSITION] button and turn the SPLIT/VFX [A] knob		
WIPE DIRECTION	Hold down the [TRANSITION] button and turn the SPLIT/VFX [B] knob		
WIPE BORDER COLOR	PE BORDER COLOR Hold down the [TRANSITION] button and turn the SPLIT/VFX [A] knob while pressing		
WIPE BORDER WIDTH	Hold down the [TRANSITION] button and turn the SPLIT/VFX [B] knob while pressing		
SPLIT/VFX A			
SPLIT/VFX TYPE	Hold down the SPLIT/VFX [A] button and turn the SPLIT/VFX [A] knob		
AREA SIZE	Hold down a Cross-point A [1]–[8] button and turn the SPLIT/VFX [A] knob	- VFX/SPLITTYPE :	
BLOCK SIZE	Hold down a Cross-point A [1]–[8] button and turn the SPLIT/VFX [A] knob while pressing	PART MOSAIC, BACKGROUND MOSAIC	
CENTER POSITION	Turn while pressing the SPLIT/VFX [A] knob	VFX/SPLIT TYPE : SPLIT V, SPLIT H	
SPLIT/VFX B			
SPLIT/VFX TYPE	Hold down the SPLIT/VFX [B] button and turn the SPLIT/VFX [A] knob		
AREA SIZE	Hold down a Cross-point B [1]–[8] button and turn the SPLIT/VFX [B] knob	VFX/SPLIT TYPE :	
BLOCK SIZE	Hold down a Cross-point B [1]–[8] button and turn the SPLIT/VFX [B] knob while pressing	PART MOSAIC, BACKGROUND MOSAIC	
CENTER POSITION	Turn while pressing the SPLIT/VFX [B] knob	VFX/SPLIT TYPE : SPLIT V, SPLIT H	
INPUT 1-8			
INPUT ASSIGN	Hold down the [EXIT] button and press a Cross-point A or B [1]–[8] button		
OUTPUT 3			
OUTPUT ASSIGN	Hold down the [EXIT] button and press [TRANSITION] button	Switch in the order of the PGM, PVW, AUX, and MULTI-VIEW bus.	

When the shortcut key is operated, the following menu screen is shown. \\

Menu screen	Operation	
DSK Hold down the DSK [PVW] button and press [MENU] button		
PinP 1, PinP 2	Hold down the PinP 1 (PinP 2) [PVW] button and press [MENU] button	
SPLIT/VFX A, SPLIT/VFX B	VFX A, SPLIT/VFX B Hold down the SPLIT/VFX [A] or [B] button and press [MENU] button	
MIX/WIPE	Hold down the [TRANSITION] button and press [MENU] button	

Appendix

Troubleshooting

If you suspect a malfunction, please check the following points. If this does not resolve the problem, contact a nearby Roland Service Center.

Problem	Items to check	Action	Page
Video-related problems			
	Could an AUX/PinP SOURCE/MEMORY [1]–[8] button and cross-point A or B [1]–[8] button be blinking?	Video in a format that differs from the setting on the V-8HD is being input. Set the system format to match the connected device.	p. 8
No picture is input.	Has the video source been correctly assigned to INPUT 1–8?	Specify the video source to assign to INPUT 1–8.	p. 30 p. 65
	Is copyright-protected (HDCP) video being input?	When inputting copyright-protected (HDCP) video signals, set "HDCP" to "ON".	p. 10
Video from the computer is not displayed.	Is the format of the video output from the computer compatible with the V-8HD's input formats?	The supported input formats on channels 1 through 6 are 1080p, 1080i, and 720p. Only channels 7 and 8 supports VESA-standard resolutions.	p. 8
Video from the computer is corrupted.	When a rapidly moving video is input from a computer, out-of-sync motion, flicker, or other picture corruption may occur.	This is called "tearing", and does not indicate an equipment mal	function.
No picture is output.	Could the [OUTPUT FADE] knob be turned all the way left or right?	If the fade function is assigned to the [OUTPUT FADE] knob, turning the knob all the way to the left or right applies a fade to the final output video. To output the video, set the [OUTPUT FADE] knob to the center position.	p. 33
	Is the display connected correctly?	When outputting copyright-protected (HDCP) video, connect an HDCP-compatible display.	p. 10
"Snowy"-noise video is output.	It is possible that the HDMI signal is not being sent and received correctly.	Reconnect the HDMI cable.	
The colors on the monitor screen connected via HDMI are incorrect.	Do the color space settings of the connected display and of the V-8HD match?	Use VIDEO OUTPUT menu → "OUTPUT 1–3" → "COLOR SPACE" to change the setting. Depending on the device, the color space might be interlinked selection of DVI or HDMI or the selected format. In such cases, con the color space on the output device might bring about improvements for the problem.	hanging
The edge of the video is cut off on the connected display	Are the display settings compatible?	In the case of HDMI signals, automatic overscan occurs on some displays. Change the display's settings.	2
Compositing a logo or video cannot be accomplished.	Has the correct key type (extraction color) been selected for DSK?	Go to the DSK menu and use "KEY TYPE" to select the key type (extraction color) to match the background color of the logo or video.	
	101 2511.	Use the [LEVEL] and [GAIN] knobs to adjust the position to just the right degree of extraction for the logo or image.	p. 25
	Are you importing a still image whose format and resolution are supported by the V-8HD?	Still images of unsupported formats or resolutions are not recognized. Prepare a still image whose format and resolution are supported by the V-8HD.	
Still-image cannot be imported.	Does still image have a proper file name?	Use a file name composed of no more than 8 single-byte alphanumeric characters. Also, be sure to append the ".bmp", ".png" or ".jpg" file extension.	p. 30
		Still images without proper file names are not recognized.	
Audio-related Problems			
No audio is output.	Could the volume of the connected amp or speaker be lowered?	Adjust the volume appropriately.	
Audio volume is low.	Is the volume turned down on the V-8HD?	Adjust each input to an appropriate volume level.	p. 34
	Could the audio be muted?	In the AUDIO INPUT menu, defeat muting.	p. 39
Other Problems			
Buttons and knobs cannot be operated.	Is panel lock turned on?	If the [MENU] button is blinking, panel lock is on. In the SYSTEM menu item "PANEL LOCK", turn panel lock off.	p. 63
Switching is not complete even when the video fader is moved.	Factors such as continued use and transportation can sometimes cause the video to fail to be switched completely.	Perform calibration of the video fader. Go to the SYSTEM menu, then select and execute "VIDEO FADER CALIBRATE".	p. 87
A USB flash drive cannot be read.	Has the USB flash drive been formatted on the V-8HD?	You may not be able to normally use USB flash drives on the V-8HD that are formatted on a different device. Be sure to format the media on the V-8HD (in FAT32 format). Operation has been tested for commonly available USB flash drives, but operation of all USB flash drives is not assured. Depending on the manufacturer and type of the USB flash drive, correct operation may not be possible.	p. 60

Main Specifications

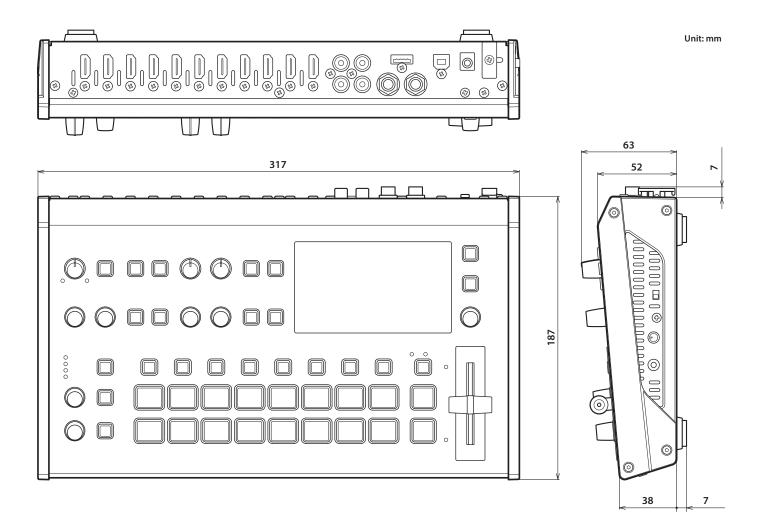
40 = 0.05 := :	4.0.2 (V/DL/D.)				
4:2:2 (Y/Pb/Pr), 8-					
INPUT 1-6					
INPUT 7–8					
	* HDCP and Multi-format supported				
OUTPUT 1–3	HDMI type A x 3				
00110113	* HDCP supported				
	720/59.94p, 720/60p (*1) (*3)				
	720/50p (*1) (*4)				
	1080/59.94i, 1080/60i, 1080/59.94p, 10	080/60p, 1080/29.97p, 1080/30p (*2) (*	3)		
	1080/50i, 1080/50p, 1080/25p (*2) (*4))			
INPUT 1-6	1080/23.98p, 1080/24p (*2)				
	* The input interlaced video signal is o	converted to progressive video signal b	y internal processing.		
	(*1) SYSTEM FORMAT = 720p				
	(*2) SYSTEM FORMAT = 1080i or 1080	р			
	(*3) FRAME RATE = 59.94, 60 Hz, 29.97	7 Hz, 30 Hz			
	(*4) FRAME RATE = 50 Hz or 25 Hz				
	480/59.94i, 480/59.94p, 720/59.94p, 72	20/60p, 1080/59.94i, 1080/60i, 1080/59	.94p, 1080/60p, 1080/29.97p, 1080/30p (*1)		
	576/50i, 576/50p, 720/50p, 1080/50i, 1	080/50p, 1080/25p (*2)			
	1080/23.98p, 1080/24p	,			
	VGA (640×480/60 Hz)	SVGA (800×600/60 Hz)	XGA (1024×768/60 Hz)		
	WXGA (1280×800/60 Hz)	SXGA (1280×1024/60 Hz)	FWXGA (1366×768/60 Hz)		
INPUT 7, 8	SXGA + (1400×1050/60 Hz)	UXGA (1600×1200/60 Hz)	WUXGA (1920×1200/60 Hz)		
	* The refresh rate is the maximum val	ue of each resolution.			
	* Conforms to CEA-861-E, VESA DMT \	ersion 1.0 Revision 11.			
	* 1920 x 1200/60 Hz: Reduced blankir	g			
	-		y internal processing.		
		9.97 Hz, 30 Hz			
			ed		
Still Image					
	· '	* It can be stored up to 24 files in the internal memory.			
	'				
			720/505 (*1) (*9)		
	·	<u> </u>	720/50p (*1) (*8)		
			1080/50i (*2) (*8)		
			1080/29.97p (*3) (*6)		
			1080/25p (*3) (*9)		
OUTDUT 1 2					
001101 1,2	· '				
	() -) - ()				
	(*3) SYSTEM FORMAT = 1080p	(*9) FRAME RATE = 25 Hz			
	(*4) FRAME RATE = 59.94 Hz	(*10) FRAME RATE = 23.98 Hz			
	(*4) FRAME RATE = 59.94 Hz (*5) FRAME RATE = 60 Hz				
	(*4) FRAME RATE = 59.94 Hz (*5) FRAME RATE = 60 Hz (*6) FRAME RATE = 29.97 Hz	(*10) FRAME RATE = 23.98 Hz (*11) FRAME RATE = 24 Hz	1090/20.07p (*2)		
	(*4) FRAME RATE = 59.94 Hz (*5) FRAME RATE = 60 Hz (*6) FRAME RATE = 29.97 Hz 1080/59.94p (*1)	(*10) FRAME RATE = 23.98 Hz (*11) FRAME RATE = 24 Hz 1080/60p (*2)	1080/29.97p (*3)		
	(*4) FRAME RATE = 59.94 Hz (*5) FRAME RATE = 60 Hz (*6) FRAME RATE = 29.97 Hz 1080/59.94p (*1) 1080/30p (*4)	(*10) FRAME RATE = 23.98 Hz (*11) FRAME RATE = 24 Hz 1080/60p (*2) 1080/50p (*5)	1080/29.97p (*3) 1080/25p (*6)		
OLITPLIT 2	(*4) FRAME RATE = 59.94 Hz (*5) FRAME RATE = 60 Hz (*6) FRAME RATE = 29.97 Hz 1080/59.94p (*1) 1080/30p (*4) 1080/23.98p (*7)	(*10) FRAME RATE = 23.98 Hz (*11) FRAME RATE = 24 Hz 1080/60p (*2) 1080/50p (*5) 1080/24p (*8)	• • • • • • • • • • • • • • • • • • • •		
OUTPUT 3	(*4) FRAME RATE = 59.94 Hz (*5) FRAME RATE = 60 Hz (*6) FRAME RATE = 29.97 Hz 1080/59.94p (*1) 1080/30p (*4) 1080/23.98p (*7) (*1) FRAME RATE = 59.94 Hz	(*10) FRAME RATE = 23.98 Hz (*11) FRAME RATE = 24 Hz 1080/60p (*2) 1080/50p (*5) 1080/24p (*8) (*5) FRAME RATE = 50 Hz	• • • • • • • • • • • • • • • • • • • •		
OUTPUT 3	(*4) FRAME RATE = 59.94 Hz (*5) FRAME RATE = 60 Hz (*6) FRAME RATE = 29.97 Hz 1080/59.94p (*1) 1080/30p (*4) 1080/23.98p (*7) (*1) FRAME RATE = 59.94 Hz (*2) FRAME RATE = 60 Hz	(*10) FRAME RATE = 23.98 Hz (*11) FRAME RATE = 24 Hz 1080/60p (*2) 1080/50p (*5) 1080/24p (*8) (*5) FRAME RATE = 50 Hz (*6) FRAME RATE = 25 Hz	• • • • • • • • • • • • • • • • • • • •		
OUTPUT 3	(*4) FRAME RATE = 59.94 Hz (*5) FRAME RATE = 60 Hz (*6) FRAME RATE = 29.97 Hz 1080/59.94p (*1) 1080/30p (*4) 1080/23.98p (*7) (*1) FRAME RATE = 59.94 Hz (*2) FRAME RATE = 60 Hz (*3) FRAME RATE = 29.97 Hz	(*10) FRAME RATE = 23.98 Hz (*11) FRAME RATE = 24 Hz 1080/60p (*2) 1080/50p (*5) 1080/24p (*8) (*5) FRAME RATE = 50 Hz (*6) FRAME RATE = 25 Hz (*7) FRAME RATE = 23.98 Hz	• • • • • • • • • • • • • • • • • • • •		
	(*4) FRAME RATE = 59.94 Hz (*5) FRAME RATE = 60 Hz (*6) FRAME RATE = 29.97 Hz 1080/59.94p (*1) 1080/30p (*4) 1080/23.98p (*7) (*1) FRAME RATE = 59.94 Hz (*2) FRAME RATE = 60 Hz (*3) FRAME RATE = 29.97 Hz (*4) FRAME RATE = 30 Hz	(*10) FRAME RATE = 23.98 Hz (*11) FRAME RATE = 24 Hz 1080/60p (*2) 1080/50p (*5) 1080/24p (*8) (*5) FRAME RATE = 50 Hz (*6) FRAME RATE = 25 Hz (*7) FRAME RATE = 23.98 Hz (*8) FRAME RATE = 24 Hz	• • • • • • • • • • • • • • • • • • • •		
OUTPUT 3 Transition	(*4) FRAME RATE = 59.94 Hz (*5) FRAME RATE = 60 Hz (*6) FRAME RATE = 29.97 Hz 1080/59.94p (*1) 1080/30p (*4) 1080/23.98p (*7) (*1) FRAME RATE = 59.94 Hz (*2) FRAME RATE = 60 Hz (*3) FRAME RATE = 29.97 Hz (*4) FRAME RATE = 30 Hz CUT, MIX (DISSOLVE/FAM/NAM), WIPE	(*10) FRAME RATE = 23.98 Hz (*11) FRAME RATE = 24 Hz 1080/60p (*2) 1080/50p (*5) 1080/24p (*8) (*5) FRAME RATE = 50 Hz (*6) FRAME RATE = 25 Hz (*7) FRAME RATE = 23.98 Hz (*8) FRAME RATE = 24 Hz (8 types)	1080/25p (*6)		
Transition	(*4) FRAME RATE = 59.94 Hz (*5) FRAME RATE = 60 Hz (*6) FRAME RATE = 29.97 Hz 1080/59.94p (*1) 1080/30p (*4) 1080/23.98p (*7) (*1) FRAME RATE = 59.94 Hz (*2) FRAME RATE = 60 Hz (*3) FRAME RATE = 29.97 Hz (*4) FRAME RATE = 30 Hz CUT, MIX (DISSOLVE/FAM/NAM), WIPE PinP x 2: SQUARE, CIRCLE, DIAMOND, 3	(*10) FRAME RATE = 23.98 Hz (*11) FRAME RATE = 24 Hz 1080/60p (*2) 1080/50p (*5) 1080/24p (*8) (*5) FRAME RATE = 50 Hz (*6) FRAME RATE = 25 Hz (*7) FRAME RATE = 24 Hz (8 types) SPLIT (2 types), Keyer x 2: Luminance Ke	1080/25p (*6)		
	(*4) FRAME RATE = 59.94 Hz (*5) FRAME RATE = 60 Hz (*6) FRAME RATE = 29.97 Hz 1080/59.94p (*1) 1080/30p (*4) 1080/23.98p (*7) (*1) FRAME RATE = 59.94 Hz (*2) FRAME RATE = 60 Hz (*3) FRAME RATE = 60 Hz (*4) FRAME RATE = 30 Hz CUT, MIX (DISSOLVE/FAM/NAM), WIPE PINP x 2: SQUARE, CIRCLE, DIAMOND, 3 DSK: Luminance Key, Chroma Key, Alp	(*10) FRAME RATE = 23.98 Hz (*11) FRAME RATE = 24 Hz 1080/60p (*2) 1080/50p (*5) 1080/24p (*8) (*5) FRAME RATE = 50 Hz (*6) FRAME RATE = 25 Hz (*7) FRAME RATE = 23.98 Hz (*8) FRAME RATE = 24 Hz (8 types) SPLIT (2 types), Keyer x 2: Luminance Keha Key (*1), External Key (*1)	1080/25p (*6)		
Transition	(*4) FRAME RATE = 59.94 Hz (*5) FRAME RATE = 60 Hz (*6) FRAME RATE = 29.97 Hz 1080/59.94p (*1) 1080/30p (*4) 1080/23.98p (*7) (*1) FRAME RATE = 59.94 Hz (*2) FRAME RATE = 60 Hz (*3) FRAME RATE = 60 Hz (*4) FRAME RATE = 30 Hz CUT, MIX (DISSOLVE/FAM/NAM), WIPE PINP x 2: SQUARE, CIRCLE, DIAMOND, 3 DSK: Luminance Key, Chroma Key, Alp (*1) Exclusive with alpha bus or AUX by	(*10) FRAME RATE = 23.98 Hz (*11) FRAME RATE = 24 Hz 1080/60p (*2) 1080/50p (*5) 1080/24p (*8) (*5) FRAME RATE = 50 Hz (*6) FRAME RATE = 25 Hz (*7) FRAME RATE = 23.98 Hz (*8) FRAME RATE = 24 Hz (8 types) SPLIT (2 types), Keyer x 2: Luminance Keha Key (*1), External Key (*1)	1080/25p (*6)		
	INPUT 1-6 INPUT 7-8 OUTPUT 1-3 INPUT 1-6 INPUT 7,8	NPUT 7-8	INPUT 1-6		

Audio		and the control of th	
	Sample rate: 24 bits,	/48 kHz	
	Linear PCM, 24 bits/48 kHz, 2 ch		
11	NPUT 1–8	HDMI Type A x 8	
Input Connectors	AUDIO IN	RCA phono type	
С	DUTPUT 1–3	HDMI Type A x 3	
Output Connectors A	AUDIO OUT	RCA phono type	
P	PHONES	Stereo miniature type	
Input Level A	AUDIO IN: -10 dBu (I	Maximum: +8 dBu)	
Input Impedance A	AUDIO IN: 38 kΩ		
A A	AUDIO OUT	-10 dBu (Maximum: +8 dBu)	
Output Level	PHONES	92 mW + 92 mW (32 Ω)	
Outroot languages	AUDIO OUT	1 kΩ	
Output Impedance	PHONES	10 Ω	
Audio Effects	Delay, High pass filt	er, Compressor, Noise gate, Equalizer, Multi-band compressor, Limiter, Test tone output	
■ Others			
U	JSB MEMORY	USB A type (for USB flash drive)	
Other Connectors R	REMOTE	USB B Type (for remote control from PC and iPad)	
C	TL/EXP	1/4-inch TRS phone type	
	Preset Memory (24 t		
	Macro Control (100	types)	
	Sequencer Control		
Other Functions	Panel lock function		
	EDID Emulator		
	Auto Switching Auto Input Detect		
	Rec Control		
		LCD: 480 x 272 dots	
	AC Adaptor		
	3.3 A		
Power Consumption 3	39.6 W		
+	+0 to +40 degrees Celsius		
Operation Temperature	+32 to +104 degrees Fahrenheit		
3	317 (W) x 193 (D) x 3		
Dimensions		D) x 2-13/16 (H) inches	
	2.0 kg		
	l lbs 7 oz		
	Startup Guide, AC adaptor, Power cord		

^{* 0} dBu = 0.775 Vrms

^{*} This document explains the specifications of the product at the time that the document was issued. For the latest information, refer to the Roland website.

Dimensions



MIDI Implementation

Model: V-8HD

Date: October 8, 2021

Version: 2.00

Symbol	Item	Setting Range
n	MIDI Channel	Fixed at 00H

1. MIDI Messages Received at MIDI IN

Channel Voice Messages

Control Change

O Panpot (Controller Number 10)

This control the position of video fader.

Status2nd Byte3rd ByteBnH0AHvvH

vv = 00H-7FH (00H: bottom edge, 7FH: top edge)

O Expression (Controller Number 11)

This control the value of TRANSITION TYPE.

 $\begin{array}{cc} \underline{\text{Status}} & \underline{\text{2nd Byte}} & \underline{\text{3rd Byte}} \\ \text{BnH} & \overline{\text{0BH}} & \underline{\text{vvH}} \end{array}$

vv = 00H-03H (MIX, WIPE)

○ Effect Control 1 (Controller Number 12)

This control the value of MIX/WIPE TIME.

 $\begin{array}{cc} \underline{\text{Status}} & \underline{\text{2nd Byte}} & \underline{\text{3rd Byte}} \\ \text{BnH} & \underline{\text{0CH}} & \underline{\text{vvH}} \end{array}$

vv = 00H-28H (0.0-4.0sec)

○ Effect Control 2 (Controller Number 13)

This control the value of PinP 1 TIME.

 $\begin{array}{cc} \underline{\text{Status}} & \underline{\text{2nd Byte}} & \underline{\text{3rd Byte}} \\ \text{BnH} & \underline{\text{0DH}} & \underline{\text{vvH}} \end{array}$

vv = 00H-28H (0.0-4.0sec)

O Undefined (Controller Number 14)

This control the value of PinP 2 TIME.

 $\begin{array}{cc} \underline{\text{Status}} & \underline{\text{2nd Byte}} & \underline{\text{3rd Byte}} \\ \text{BnH} & \underline{\text{0EH}} & \underline{\text{vvH}} \end{array}$

vv = 00H-28H (0.0-4.0sec)

○ Undefined (Controller Number 15)

This control the value of DSK TIME.

Status 2nd Byte 3rd Byte
RnH 0FH vvH

vv = 00H-28H (0.0-4.0sec)

O General Purpose Controllers 1 (Controller Number 16)

This control the value of PinP 1 SOURCE.

vv = 00H-0FH (HDMI 1-8, STILL 1-8)

O General Purpose Controllers 2 (Controller Number 17)

This control the value of PinP 1 POSITION H.

vv = 0AH-64H (-50-50%)

O General Purpose Controllers 3 (Controller Number 18)

This control the value of PinP 1 POSITION V.

 $\begin{array}{ccc} \underline{\text{Status}} & \underline{\text{2nd Byte}} & \underline{\text{3rd Byte}} \\ \text{BnH} & \underline{\text{12H}} & \underline{\text{vvH}} \end{array}$

vv = 0AH-64H (-50-50%)

O General Purpose Controllers 4 (Controller Number 19)

This control the value of PinP 1 SIZE.

 Status
 2nd Byte
 3rd Byte

 BnH
 13H
 vvH

vv = 0AH-64H (10-100%)

O Undefined (Controller Number 20)

This control the value of PinP 1 VIEW ZOOM.

 Status BnH
 2nd Byte 14H
 3rd Byte vvH

vv = 0AH-64H (100-1000%)

O Undefined (Controller Number 21)

This control the value of PinP 2 SOURCE.

 $\begin{array}{ccc} \underline{\mathsf{Status}} & \underline{\mathsf{2nd}} \ \mathsf{Byte} \\ \mathsf{BnH} & 15\mathsf{H} & \underline{\mathsf{vvH}} \end{array}$

vv = 00H-0FH (HDMI 1-8, STILL 1-8)

○ Undefined (Controller Number 22)

This control the value of PinP 2 POSITION H.

 Status
 2nd Byte
 3rd Byte

 BnH
 16H
 vvH

vv = 0AH-64H (-50-50%)

O Undefined (Controller Number 23)

This control the value of PinP 2 POSITION V.

 $\begin{array}{ccc} \underline{\text{Status}} & \underline{\text{2nd Byte}} & \underline{\text{3rd Byte}} \\ \text{BnH} & \underline{\text{17H}} & \underline{\text{vvH}} \end{array}$

vv = 0AH-64H (-50-50%)

O Undefined (Controller Number 24)

This control the value of PinP 2 SIZE.

 Status
 2nd Byte
 3rd Byte

 BnH
 18H
 vvH

vv = 0AH-64H (10-100%)

O Undefined (Controller Number 25)

This control the value of PinP 2 VIEW ZOOM.

 $\begin{array}{cc} \underline{\text{Status}} & \underline{\text{2nd Byte}} & \underline{\text{3rd Byte}} \\ \underline{\text{PnH}} & \underline{\text{19H}} & \underline{\text{vvH}} \end{array}$

vv = 0AH-64H (100-1000%)

○ Undefined (Controller Number 26)

This control the value of DSK SOURCE.

 Status
 2nd Byte
 3rd Byte

 BnH
 1AH
 vvH

vv = 00H-0FH (HDMI 1-8, STILL 1-8)

○ Undefined (Controller Number 27)

This control the value of DSK LEVEL.

 $\begin{array}{cc} \underline{\mathsf{Status}} & \underline{\mathsf{2nd}} \ \mathsf{Byte} \\ \mathsf{BnH} & 1\mathsf{BH} & \underline{\mathsf{vvH}} \end{array}$

vv = 00H-7FH (Converted to 0–255)

O Undefined (Controller Number 28)

This control the value of DSK GAIN.

vv = 00H-7FH (Converted to 0-255)

O Undefined (Controller Number 29)

This control the value of DSK MIX LEVEL.

 $\begin{array}{cc} \underline{\text{Status}} & \underline{\text{2nd Byte}} & \underline{\text{3rd Byte}} \\ \text{BnH} & \underline{\text{1DH}} & \underline{\text{vvH}} \end{array}$

vv = 00H-7FH (Converted to 0–255)

O Undefined (Controller Number 30)

This control the value of SPLIT/VFX A SW.

vv = 00H, 01H (OFF, ON)

O Undefined (Controller Number 31)

This control the value of SPLIT/VFX A TYPE.

 Status BnH
 2nd Byte 1FH
 3rd Byte vvH

vv = 00H-11H (refer to p. 99)

O Bank select (Controller Number 32)

This control the value of SPLIT/VFX B SW.

 Status
 2nd Byte
 3rd Byte

 BnH
 20H
 vvH

vv = 00H, 01H (OFF, ON)

O Modulation (Controller Number 33)

This control the value of SPLIT/VFX B TYPE.

vv = 00H-11H (refer to p. 99)

O Bless Controller (Controller Number 34)

This control the [OUTPUT FADE] knob position (counter-clockwise)

Status 2nd Byte 3rd Byte

vv = 00H-3FH

O Undefined (Controller Number 35)

This control the [OUTPUT FADE] knob position (clockwise)

 Status BnH
 2nd Byte 23H
 3rd Byte vvH

vv = 00H-3FH

O Foot Controller (Controller Number 36)

This control the value of AUDIO INPUT LEVEL (INPUT 1).

 Status
 2nd Byte
 3rd Byte

 BnH
 24H
 vvH

 $vv = 00 H-7 FH \ (refer \ to \ "Control \ Value-Input/Output \ Level \ Correspondence \ Table" \ (p. 95))$

O Portamento Time (Controller Number 37)

This control the value of AUDIO INPUT LEVEL (INPUT 2).

 Status
 2nd Byte
 3rd Byte

 BnH
 25H
 vvH

 $vv = 00H-7FH \ (refer to \ "Control Value-Input/Output Level Correspondence \ Table" \ (p. 95))$

O Data Entry (Controller Number 38)

This control the value of AUDIO INPUT LEVEL (INPUT 3).

vv = 00H-7FH (refer to "Control Value-Input/Output Level Correspondence Table" (p. 95))

O Channel volume (Controller Number 39)

This control the value of AUDIO INPUT LEVEL (INPUT 4).

 $\begin{array}{cc} \underline{\text{Status}} & \underline{\text{2nd Byte}} \\ \underline{\text{BnH}} & \underline{\text{27H}} & \underline{\text{vvH}} \end{array}$

vv = 00H-7FH (refer to "Control Value-Input/Output Level Correspondence Table" (p. 95))

O Balance (Controller Number 40)

This control the value of AUDIO INPUT LEVEL (INPUT 5).

 Status BnH
 2nd Byte 28H
 3rd Byte vvH

 $vv = 00H-7FH \ (refer to \ ``Control \ Value-Input/Output \ Level \ Correspondence \ Table'' \ (p. 95))$

○ Undefined (Controller Number 41)

This control the value of AUDIO INPUT LEVEL (INPUT 6).

 $\begin{array}{cc} \underline{\text{Status}} & \underline{\text{2nd Byte}} & \underline{\text{3rd Byte}} \\ \text{BnH} & \underline{\text{29H}} & \text{vvH} \end{array}$

vv = 00H-7FH (refer to "Control Value-Input/Output Level Correspondence Table" (p. 95))

O Panpot (Controller Number 42)

This control the value of AUDIO INPUT LEVEL (INPUT 7).

 $\begin{array}{cc} \underline{\text{Status}} & \underline{\text{2nd Byte}} & \underline{\text{3rd Byte}} \\ \underline{\text{BnH}} & \underline{\text{2AH}} & \underline{\text{vvH}} \end{array}$

vv = 00H-7FH (refer to "Control Value-Input/Output Level Correspondence Table" (p. 95))

O Expression (Controller Number 43)

This control the value of AUDIO INPUT LEVEL (INPUT 8).

Status2nd Byte3rd ByteBnH2BHvvH

vv = 00H-7FH (refer to "Control Value-Input/Output Level Correspondence Table" (p. 95))

○ Effect Control 1 (Controller Number 44)

This control the value of AUDIO INPUT LEVEL (AUDIO IN).

 $\begin{array}{ccc} \underline{\text{Status}} & \underline{\text{2nd Byte}} & \underline{\text{3rd Byte}} \\ \underline{\text{BnH}} & \underline{\text{2CH}} & \underline{\text{vvH}} \end{array}$

vv = 00H-7FH (refer to "Control Value-Input/Output Level Correspondence Table" (p. 95))

O Effect Control 2 (Controller Number 45)

This control the value of AUDIO OUTPUT LEVEL.

 $\begin{array}{cc} \underline{\text{Status}} & \underline{\text{2nd Byte}} \\ \underline{\text{BnH}} & \underline{\text{2DH}} & \underline{\text{vvH}} \end{array}$

vv = 00H–7FH (refer to "Control Value–Input/Output Level Correspondence Table" (p. 95))

O Undefined (Controller Number 52)

Presses or release the [CUT] button.

 $\begin{array}{cc} \underline{\text{Status}} & \underline{\text{2nd Byte}} \\ \text{BnH} & 34\text{H} & \underline{\text{vvH}} \end{array}$

vv = 00H, 01H (OFF, ON)

O Undefined (Controller Number 53)

Presses release the [AUTO] button.

Status2nd Byte3rd ByteBnH35HvvH

vv = 00H, 01H (OFF, ON)

O Undefined (Controller Number 54)

Switches the video as "▲ CUT ▼".

vv = any (00H-7FH)

○ Undefined (Controller Number 55)

Switches the video as "▲ AUTO TAKE ▼".

Status
BnH2nd Byte
37H3rd Byte
vvH

vv = any (00H-7FH)

O Undefined (Controller Number 56)

This control the value of AUDIO INPUT MUTE (INPUT 1).

 $\begin{array}{cc} \underline{\text{Status}} & \underline{\text{Pnd Byte}} & \underline{\text{3rd Byte}} \\ \underline{\text{BnH}} & \underline{\text{38H}} & \underline{\text{vvH}} \end{array}$

vv = 00H, 01H (OFF, ON)

○ Undefined (Controller Number 57)

This control the value of AUDIO INPUT MUTE (INPUT 2).

 $\begin{array}{cc} \underline{\text{Status}} & \underline{\text{2nd Byte}} \\ \text{BnH} & 39\text{H} & \text{vvH} \end{array}$

vv = 00H, 02H (OFF, ON)

O Undefined (Controller Number 58)

This control the value of AUDIO INPUT MUTE (INPUT 3).

 $\begin{array}{cc} \underline{\text{Status}} & \underline{\text{2nd Byte}} \\ \overline{\text{BnH}} & \overline{\text{3AH}} & \overline{\text{vvH}} \end{array}$

vv = 00H, 03H (OFF, ON)

○ Undefined (Controller Number 59)

This control the value of AUDIO INPUT MUTE (INPUT 4).

vv = 00H, 04H (OFF, ON)

O Undefined (Controller Number 60)

This control the value of AUDIO INPUT MUTE (INPUT 5).

 $\begin{array}{cc} \underline{\text{Status}} & \underline{\text{2nd Byte}} & \underline{\text{3rd Byte}} \\ \text{BnH} & \overline{\text{3CH}} & \underline{\text{vvH}} \end{array}$

vv = 00H, 05H (OFF, ON)

○ Undefined (Controller Number 61)

This control the value of AUDIO INPUT MUTE (INPUT 6).

vv = 00H, 06H (OFF, ON)

O Undefined (Controller Number 62)

This control the value of AUDIO INPUT MUTE (INPUT 7).

 $\begin{array}{cc} \underline{\text{Status}} & \underline{\text{2nd Byte}} & \underline{\text{3rd Byte}} \\ \text{BnH} & \underline{\text{3EH}} & \underline{\text{vvH}} \end{array}$

vv = 00H, 07H (OFF, ON)

○ Undefined (Controller Number 63)

This control the value of AUDIO INPUT MUTE (INPUT 8).

 $\begin{array}{ccc} \underline{\text{Status}} & \underline{\text{2nd Byte}} & \underline{\text{3rd Byte}} \\ \text{BnH} & \overline{\text{3FH}} & \underline{\text{vvH}} \end{array}$

vv = 00H, 08H (OFF, ON)

O Hold 1 (Controller Number 64)

This control the value of AUDIO INPUT MUTE (AUDIO IN).

 $\begin{array}{ccc} \underline{\text{Status}} & \underline{\text{2nd Byte}} & \underline{\text{3rd Byte}} \\ \text{BnH} & \underline{\text{40H}} & \underline{\text{vvH}} \end{array}$

vv = 00H, 09H (OFF, ON)

O Portamento Switch (Controller Number 65)

This control the value of AUDIO OUTPUT MUTE.

Status 2nd Byte 3rd Byte vvH

vv = 00H, 10H (OFF, ON)

■ Control Value-Input/Output Level Correspondence Table (unit: dB)

0	-Inf	32	-33.1	64	-11.3	96	-0.3
1	-80.0	33	-32.3	65	-10.7	97	0.0
2	-76.7	34	-31.5	66	-10.3	98	0.3
3	-73.3	35	-30.8	67	-10.0	99	0.7
4	-70.0	36	-30.0	68	-9.7	100	1.0
5	-66.7	37	-29.3	69	-9.3	101	1.3
6	-63.3	38	-28.7	70	-9.0	102	1.7
7	-60.0	39	-28.0	71	-8.7	103	2.0
8	-58.6	40	-27.3	72	-8.3	104	2.3
9	-57.1	41	-26.7	73	-8.0	105	2.7
10	-55.7	42	-26.0	74	-7.7	106	3.0
11	-54.3	43	-25.3	75	-7.3	107	3.3
12	-52.9	44	-24.7	76	-7.0	108	3.7
13	-51.4	45	-24.0	77	-6.7	109	4.0
14	-50.0	46	-23.3	78	-6.3	110	4.3
15	-48.9	47	-22.7	79	-6.0	111	4.7
16	-47.8	48	-22.0	80	-5.7	112	5.0
17	-46.7	49	-21.3	81	-5.3	113	5.3
18	-45.6	50	-20.7	82	-5.0	114	5.7
19	-44.4	51	-20.0	83	-4.7	115	6.0
20	-43.3	52	-19.3	84	-4.3	116	6.3
21	-42.2	53	-18.7	85	-4.0	117	6.7
22	-41.1	54	-18.0	86	-3.7	118	7.0
23	-40.0	55	-17.3	87	-3.3	119	7.3
24	-39.2	56	-16.7	88	-3.0	120	7.7
25	-38.5	57	-16.0	89	-2.7	121	8.0
26	-37.7	58	-15.3	90	-2.3	122	8.3
27	-36.9	59	-14.7	91	-2.0	123	8.7
28	-36.2	60	-14.0	92	-1.7	124	9.0
29	-35.4	61	-13.3	93	-1.3	125	9.3
30	-34.6	62	-12.7	94	-1.0	126	9.7
31	-33.8	63	-12.0	95	-0.7	127	10.0

Program Change

This message recalls a preset memory.

 $\begin{array}{cc} \underline{\text{Status}} & \underline{\text{2nd Byte}} \\ \underline{\text{CnH}} & \underline{\text{ppH}} \end{array}$

pp = Memory number: 00H-07H (MEMORY 1-MEMORY 8)

System Exclusive Messages

<u>Status</u> <u>Data Byte</u> <u>Status</u> F0H iiH,ddH,...,eeH F7H

F0H: Status of system exclusive message

ii= ID number: This is the ID to recognize manufacturer of the exclusive

message (manufacturer ID).

The manufacturer ID of Roland is 41H.

The ID numbers of 7EH and 7FH are expansion of MIDI standards and used as universal non-realtime message (7EH) of universal

realtime message (7FH).

dd,...,ee= data: 00H-7FH (0-127)

F7H: EOX (end of exclusive)

● Data Request 1 (RQ1)

This is the message to request of "send data" to the connected device. Specify data type and amount using address and size. When this is received, the unit sends the requested data as "Data Set 1 (DT1)" message in case the unit is in status where the sending of data is possible and requested address and size are appropriate. If not, the unit sends nothing.

 Status
 Data Byte
 Status

 F0H
 41H, 10H, 00H, 00H, 00H, 68H, 11H, aaH,
 F7H

 bbH, ccH, ssH, ttH, uuH, sum

Byte Explanation
F0H Exclusive Status

41H Manufacturer ID (Roland)

10H Device ID

00H 1st byte of model ID (V-8HD) 00H 2nd byte of model ID (V-8HD) 00H 3rd byte of model ID (V-8HD) 68H 4th byte of model ID (V-8HD) 11H Command ID (RQ1)

aaH Address upper byte
bbH Address middle byte
ccH Address lower byte
ssH Size upper byte
ttH Size middle byte
uuH Size lower byte
sum Checksum

F7H EOX (end of exclusive)

- * Depending on the data type, the amount of single-time transmission is specified. It is necessary to execute data request according to the specified first address and size. Refer to the "2. Parameter Address Map" (p. 97) for address and size.
- * See "Example of an Exclusive Message and Calculating a Checksum" (p. 107) for checksum.

Data Set 1 (DT1)

This is the message of actual data transmission. Use this when you want to set data to the unit.

Status	Data Byte	Status
F0H	41H, 10H, 00H, 00H, 00H, 68H, 12H, aaH,	F7H
	bbH, ccH, ddH,, eeH, sum	

Byte Explanation Exclusive Status

41H Manufacturer ID (Roland)

10H Device ID

00H 1st byte of model ID (V-8HD) 00H 2nd byte of model ID (V-8HD) 00H 3rd byte of model ID (V-8HD) 68H 4th byte of model ID (V-8HD) 12H Command ID (DT1)

12H Command ID (DT1)
aaH Address upper byte
bbH Address middle byte
ccH Address lower byte

ddH Data: actual data to transmit. Multiple byte data is sent in address order.

eeH Data sum Checksum

F7H EOX (end of exclusive)

- * Depending on the data type, the amount of single-time transmission is specified. It is necessary to execute data request according to the specified first address and size. Refer to the "2. Parameter Address Map" (p. 97) for address and size.
- * See "Example of an Exclusive Message and Calculating a Checksum" (p. 107) for checksum.
- * Data exceeding 256 bytes should be divided into packets of 256 bytes or smaller. If you send data set 1 successively, set interval of 20 ms or longer between packets.

2. Parameter Address Map

Start Address	Description	
00H 00H 00H	Video Parameter Area	
01H 00H 00H	Audio Parameter Area	
02H 00H 00H	System Parameter Area	
0AH 00H 00H	Other Parameter Area	
0CH 00H 00H	Tally Parameter Area	
10H 00H 00H	Video Parameter (Memory 1)	
11H 00H 00H	Audio Parameter (Memory 1)	
12H 00H 00H	Video Parameter (Memory 2)	
13H 00H 00H	Audio Parameter (Memory 2)	
14H 00H 00H	Video Parameter (Memory 3)	
15H 00H 00H	Audio Parameter (Memory 3)	
16H 00H 00H	Video Parameter (Memory 4)	
17H 00H 00H	Audio Parameter (Memory 4)	

Start Address	Description	
18H 00H 00H	Video Parameter (Memory 5)	
19H 00H 00H	Audio Parameter (Memory 5)	
1AH 00H 00H	Video Parameter (Memory 6)	
1BH 00H 00H	Audio Parameter (Memory 6)	
1CH 00H 00H	Video Parameter (Memory 7)	
1DH 00H 00H	Audio Parameter (Memory 7)	
1EH 00H 00H	Video Parameter (Memory 8)	
1FH 00H 00H	Audio Parameter (Memory 8)	
:	:	
3EH 00H 00H	Video Parameter (Memory 24)	
3FH 00H 00H	Audio Parameter (Memory 24)	
60H 00H 00H	Preset Memoey Name Area	

● Video Parameter Area

O Video Input

 * "xxH" corresponds to the respective channels as indicated below. xxH: 00H–05H (CH1–CH6)

Address	Parameter Name	Sys.Ex.Value	Meaning of Value
00H xxH 00H	INPUT ASSIGN	00H-08H	HDMI, STILL 1–8
00H xxH 01H	FLIP H	00H-01H	OFF, ON
00H xxH 02H	FLIP V	00H-01H	OFF, ON
00H xxH 03H	BRIGHTNESS	60H-00H-1FH	-32-0-31
00H xxH 04H	CONTRAST	60H-00H-1FH	-32-0-31
00H xxH 05H	SATURATION	60H-00H-1FH	-32-0-31

○ Vodeo Input (SCALER)

* "xxH" corresponds to the respective channels as indicated below. xxH: 06H–05H (CH7–CH8)

Address	Parameter Name	Sys.Ex.Value	Meaning of Value
00H xxH 00H	INPUT ASSIGN	00H-08H	HDMI, STILL 1–8
00H xxH 01H	FLICKER FILTER	00H-01H	OFF, ON
00H xxH 02H	FLIP H	00H-01H	OFF, ON
00H xxH 03H	FLIP V	00H-01H	OFF, ON
00H xxH 04H	EDID	00H-0BH	INTERNAL, SVGA (800x600), XGA (1024x768), WXGA (1280x800), FWXGA (1366x768), SXGA (1280x1024), SXGA + (1400x1050), UXGA (1600x1200), WUXGA (1920x1200), 720p, 1080i, 1080p
00H xxH 05H 06H	ZOOM	00H 64H-4EH 10H	10.0–1000.0%
00H xxH 07H	SCALING TYPE	00H-04H	FULL, LETTERBOX, CROP, DOT BY DOT, MANUAL
00H xxH 08H 09H	MANUAL SIZE H	70H 30H-00H -0FH 50H	-2000-0-2000
00H xxH 0AH 0BH	MANUAL SIZE V	70H 30H–00H–0FH 50H	-2000-0-2000
00H xxH 0CH 0DH	POSITION H	71H 00H–00H–0FH 00H	-1920-0-1920
00H xxH 0EH 0FH	POSITION V	76H 50H-00H-09H 30H	-1200-0-1200
00H xxH 10H	BRIGHTNESS	60H-00H-1FH	-32-0-31
00H xxH 11H	CONTRAST	60H-00H-1FH	-32-0-31
00H xxH 12H	SATURATION	60H-00H-1FH	-32-0-31
00H xxH 13H	RED	40H-00H-3FH	-64-0-63
00H xxH 14H	GREEN	40H-00H-3FH	-64-0-63
00H xxH 15H	BLUE	40H-00H-3FH	-64-0-63

\bigcirc Video Output

* "xxH" corresponds to the respective channels as indicated below. xxH: 08H–0AH (OUTPUT 1–3)

Address	Parameter Name	Sys.Ex.Value	Meaning of Value
00H xxH 00H	OUTPUT ASSIGN	00H-03H	PROGRAM, PREVIEW, AUX, MULTI VIEW
00H xxH 01H	COLOR SPACE	00H-02H	YPbPr, RGB (0–255), RGB (16–235)
00H xxH 02H	DVI-D/HDMI SIGNAL	00H-01H	HDMI, DVI-D
00H xxH 03H	BRIGHTNESS	40H-00H-3FH	-64-0-63
00H xxH 04H	CONTRAST	40H-00H-3FH	-64-0-63
00H xxH 05H	SATURATION	40H-00H-3FH	-64-0-63
00H xxH 06H	RED	40H-00H-3FH	-64-0-63
00H xxH 07H	GREEN	40H-00H-3FH	-64-0-63
00H xxH 08H	BLUE	40H-00H-3FH	-64-0-63
00H xxH 09H	REC CONTROL	00H-01H	OFF, ON

○ TRANSITION TIME

Address	Parameter Name	Sys.Ex.Value	Meaning of Value
00H 0BH 00H	MIX/WIPE TIME	00H-28H	0.0-4.0sec
00H 0BH 01H	PinP 1 TIME	00H-28H	0.0-4.0sec
00H 0BH 02H	PinP 2 TIME	00H-28H	0.0–4.0sec
00H 0BH 03H	DSKTIME	00H-28H	0.0–4.0sec

○ MIX/WIPE

Address	Parameter Name	Sys.Ex.Value	Meaning of Value
00H 0CH 00H	TRANS TYPE	00H-01H	MIX, WIPE
00H 0CH 01H	MIX TYPE	00H-02H	MIX, FAM, NAM
00H 0CH 02H	WIPE TYPE	00H-07H	HORIZONTAL, VERTICAL, UPPER LEFT, UPPER RIGHT, LOWER LEFT, LOWER RIGHT, H-CENTER, V-CENTER
00H 0CH 03H	WIPE DIRECTION	00H-02H	NORMAL, REVERSE, ROUND TRIP
00H 0CH 04H	WIPE BORDER COLOR	00H-08H	WHITE, YELLOW, CYAN, GREEN, MAGENTA, RED, BLUE, BLACK, SOFT EDGE
00H 0CH 05H	WIPE BORDER WIDTH	00H-0EH	0–14

○ PinP

* "xxH" corresponds to the respective channels as indicated below. xxH: 0DH–0EH (PinP 1, 2)

Address	Parameter Name	Sys.Ex.Value	Meaning of Value
00H xxH 00H	PGM SW	00H-01H	OFF, ON
00H xxH 01H	PVW SW	00H-01H	OFF, ON
00H xxH 02H	SOURCE	00H-0FH	HDMI1-8, STILL1-8
00H xxH 03H	TYPE	00H-03H	PinP, LUMINANCE-WHITE KEY, LUMINANCE-BLACK KEY, CHROMA KEY
00H xxH 04H 05H	POSITION H	7CH 0CH-00H 00H-03H 74H	-50.0-0.0-50.0%
00H xxH 06H 07H	POSITION V	7CH 0CH-00H 00H-03H 74H	-50.0-0.0-50.0%
00H xxH 08H 09H	SIZE	00H 64H–07H 68H	10.0–100.0%
00H xxH 0AH 0BH	CROPPING H	00H 00H–07H 68H	0.0–100.0%
00H xxH 0CH 0DH	CROPPING V	00H 00H-07H 68H	0.0–100.0%
00H xxH 0EH	SHAPE	00H-02H	RECTANGLE, CIRCLE, DIAMOND
00H xxH 0FH	BORDER COLOR	00H-08H	WHITE, YELLOW, CYAN, GREEN, MAGENTA, RED, BLUE, BLACK, SOFT EDGE
00H xxH 10H	BORDER WIDTH	00H-0EH	0–14
00H xxH 11H 12H	VIEW POSITION H	00H 64H-07H 68H	10.0–100.0%
00H xxH 13H 14H	VIEW POSITION V	00H 64H–07H 68H	10.0–100.0%
00H xxH 15H 16H	VIEW ZOOM	00H 64H-03H 10H	100-400%
00H xxH 17H 18H	KEY LEVEL	00H 00H-01H 7FH	0–255
00H xxH 19H 1AH	KEY GAIN	00H 00H-01H 7FH	0–255
00H xxH 1BH 1CH	MIX LEVEL	00H 00H-01H 7FH	0–255
00H xxH 1DH	CHROMA COLOR	00H-01H	GREEN, BLUE
00H xxH 1EH	HUE WIDTH	62H-00H-1EH	-30-0-30

Address	Parameter Name	Sys.Ex.Value	Meaning of Value
00H xxH 1FH 20H	HUE FINE	00H 00H-02H 68H	0–360
00H xxH 21H 22H	SATURATION WIDTH	7FH 00H-00H 00H-00H 7FH	-128-0-127
00H xxH 23H 24H	SATURATION FINE	00H 00H-01H 7FH	0–255
00H xxH 25H	FILLTYPE	00H-01H	BUS, MATTE
00H xxH 26H	MATTE COLOR	00H-07H	WHITE, YELLOW, CYAN, GREEN, MAGENTA, RED, BLUE, BLACK
00H xxH 27H	EDGE TYPE	00H-04H	OFF, BORDER, DROP, SHADOW, OUTLINE
00H xxH 28H	EDGE COLOR	00H-07H	WHITE, YELLOW, CYAN, GREEN, MAGENTA, RED, BLUE, BLACK
00H xxH 29H	EDGE WIDTH	00H-0EH	0–14

$\bigcirc \, \mathbf{DSK}$

Address	Parameter Name	Sys.Ex.Value	Meaning of Value
00H 0FH 00H	PGM SW	00H-01H	OFF, ON
00H 0FH 01H	PVW SW	00H-01H	OFF, ON
00H 0FH 02H	FILL SOURCE	00H-0FH	HDMI 1–8, STILL 1–8
00H 0FH 03H	TYPE	00H-02H	LUMINANCE-WHITE, LUMINANCE-BLACK, CHROMA
00H 0FH 04H 05H	DSK LEVEL	00H 00H-01H 7FH	0–255
00H 0FH 06H 07H	DSK GAIN	00H 00H-01H 7FH	0–255
00H 0FH 08H 09H	MIX LEVEL	00H 00H-01H 7FH	0–255
00H 0FH 0AH	CHROMA COLOR	00H-01H	GREEN, BLUE
00H 0FH 0BH	HUE WIDTH	62H-00H-1EH	-30-0-30
00H 0FH 0CH 0DH	HUE FINE	00H 00H-02H 68H	0-360
00H 0FH 0EH 0FH	SATURATION WIDTH	7FH 00H-00H 00H-00H 7FH	-128-0-127
00H 0FH 10H 11H	SATURATION FINE	00H 00H-01H 7FH	0–255
00H 0FH 12H	FILL TYPE	00H-01H	BUS, MATTE
00H 0FH 13H	MATTE COLOR	00H-07H	WHITE, YELLOW, CYAN, GREEN, MAGENTA, RED, BLUE, BLACK
00H 0FH 14H	EDGE TYPE	00H-04H	OFF, BORDER, DROP, SHADOW, OUTLINE
00H 0FH 15H	EDGE COLOR	00H-07H	WHITE, YELLOW, CYAN, GREEN, MAGENTA, RED, BLUE, BLACK
00H 0FH 16H	EDGE WIDTH	00H-0EH	0–14
00H 0FH 17H	DSK MODE	00H ~ 02H	SELF KEY, ALPHA KEY, EXTERNAL KEY
00H 0FH 18H	KEY SOURCE	00H ~ 0FH	HDMI 1–8, STILL 1–8
00H 0FH 19H	reserved		

○ SPLIT/VFX

 * "xxH" corresponds to the respective channels as indicated below. xxH: 10H–11H (SPLIT/VFX A, B)

Address	Parameter Name	Sys.Ex.Value	Meaning of Value
00H xxH 00H	SPLIT/VFX SW	00H-01H	OFF, ON
00H xxH 01H	SPLIT/VFX TYPE	00H-11H	SPLIT_V, SPLIT_H, PART MOSAIC, BACKGROUND MOSAIC, FULL MOSAIC, WAVE, RGB REPLACE, COLOR PASS, NEGATIVE, COLORIZE, POSTERIZE, SILHOUETTE, EMBOSS, FIND EDGES, MONOCOLOR, HUE OFFSET, SATURATION OFFSET, VALUE OFFSET
00H xxH 02H 03H	MIX LEVEL	00H 00H-01H 7FH	0–255
00H xxH 04H	PART MOSAIC MODE	00H-07H	OFF (1x1), 4 x 4, 8 x 8, 16 x 16, 32 x 32, 64 x 64, 128 x 128, 256 x 256
00H xxH 05H 06H	PART MOSAIC POSITION H	7CH 0CH-00H 00H-03H 74H	-50.0-0.0-50.0%
00H xxH 07H 08H	PART MOSAIC POSITION V	7CH 0CH-00H 00H-03H 74H	-50.0-0.0-50.0%
00H xxH 09H 0AH	PART MOSAIC AREA SIZE	00H 64H-07H 68H	10.0–100.0%
00H xxH 0BH 0CH	PART MOSAIC AREA CORRECTION H	00H 64H-07H 68H	10.0–100.0%
00H xxH 0DH 0EH	PART MOSAIC AREA CORRECTION V	00H 64H–07H 68H	10.0–100.0%
00H xxH 0FH	BG MOSAIC MODE	00H-07H	OFF (1x1), 4 x 4, 8 x 8, 16 x 16, 32 x 32, 64 x 64, 128 x 128, 256 x 256
00H xxH 10H 11H	BG MOSAIC POSITION H	7CH 0CH-00H 00H-03H 74H	-50.0-0.0-50.0%

Appendix

Address	Parameter Name	Sys.Ex.Value	Meaning of Value
00H xxH 12H 13H	BG MOSAIC POSITION V	7CH 0CH-00H 00H-03H 74H	-50.0-0.0-50.0%
00H xxH 14H 15H	BG MOSAIC AREA SIZE	00H 64H-07H 68H	10.0–100.0%
00H xxH 16H 17H	BG MOSAIC AREA CORRECTION H	00H 64H-07H 68H	10.0–100.0%
00H xxH 18H 19H	BG MOSAIC AREA CORRECTION V	00H 64H-07H 68H	10.0–100.0%
00H xxH 1AH	FULL MOSAIC MODE	00H-07H	OFF (1x1), 4 x 4, 8 x 8, 16 x 16, 32 x 32, 64 x 64, 128 x 128, 256 x 256
00H xxH 1BH 1CH	WAVE GAIN	00H 00H-01H 7FH	0–255
00H xxH 1DH	WAVETYPE	00H-07H	0–7
00H xxH 1EH	RGB REPLACE TYPE	00H-05H	OFF (R.G.B), B.R.G, G.B.R, R.B.G, G.R.B, B.G.R
00H xxH 1FH	COLOR PASS TYPE	01H–3FH	1–63
00H xxH 20H	NEGATIVE TYPE	01H-07H	Pr, Pb, PbPr, Y, YPr, YPb, YPbPr
00H xxH 21H	COLORIZE TYPE	00H-07H	1–8
00H xxH 22H	POSTERIZE LEVEL	00H-03H	1–4
00H xxH 23H	SILHOUETTE TYPE	00H-7FH	1–128
00H xxH 24H	EMBOSS TYPE	00H-7FH	1–128
00H xxH 25H	EMBOSS CONTRAST	00H-0FH	0–15
00H xxH 26H	FIND EDGES FG COLOR	00H-0FH	0–15
00H xxH 27H	FIND EDGES BG COLOR	00H-0FH	0–15
00H xxH 28H	MONOCOLOR Pb COLOR	00H-3FH	0–63
00H xxH 29H	MONOCOLOR Pr COLOR	00H-3FH	0–63
00H xxH 2AH 2BH	HUE OFFSET VALUE	00H 00H-02H 67H	0-359
00H xxH 2CH 2DH	SATURATION OFFSET VALUE	7EH 00H-00H 00H- 01H 7FH	-256-0-255
00H xxH 2EH 2FH	VALUE OFFSET VALUE	7EH 00H-00H 00H-01H 7FH	-256-0-255
00H xxH 30H 31H	SPLIT CENTER A	7CH 0CH-00H 00H-03H 74H	-50.0-0.0-50.0%
00H xxH 32H 33H	SPLIT CENTER B	7CH 0CH-00H 00H-03H 74H	-50.0-0.0-50.0%
00H xxH 34H 35H	SPLIT CENTER POSITION	7CH 0CH-00H 00H-03H 74H	-50.0-0.0-50.0%
00H xxH 36H	SPLIT BORDER COLOR	00H-07H	WHITE, YELLOW, CYAN, GREEN, MAGENTA, RED, BLUE, BLACK
00H xxH 37H	SPLIT BORDER WIDTH	00H-0EH	0–14

○ Panel

Address	Parameter Name	Sys.Ex.Value	Meaning of Value
00H 12H 00H	PGM Select	00H-07H	INPUT1-8
00H 12H 01H	PST Select	00H-07H	INPUT1-8
00H 12H 02H	AUX Select	00H-07H	INPUT1-8
00H 12H 03H 04H	AB Fader Level	00H 00H–0FH 7FH	0–2047
00H 12H 05H	AB Bus Select	00H-01H	A, B

Audio Parameter Area

O Audio Input

* "xxH" corresponds to the respective channels as indicated below. xxH: 00H–08H (HDMI IN 1–8, AUDIO IN)

Address	Parameter Name	Sys.Ex.Value	Meaning of Value
01H xxH 00H 01H 02H	INPUT LEVEL	7EH 00H 00H, 7FH 79H 60H–00H 00H 00H– 00H 00H 64H	-INFdB, -80.0–0.0–10.0dB
01H xxH 03H	INPUT MUTE	00H-01H	OFF, ON
01H xxH 04H	SOLO	00H-01H	OFF, ON
01H xxH 05H	EFFECT PRESET	00H-06H	DEFAULT, MEETING, INTERVIEW, AMBIENT MIC, WINDY FIELD, DE-ESS/POPS SOFT, DE-ESS/POPS HARD
01H xxH 06H 07H	DELAY	00H 00H-27H 08H	0.0–500.0ms
01H xxH 08H	HIGH PASS FILTER 75Hz	00H-01H	OFF, ON
01H xxH 09H	NOISE GATE SW	00H-01H	OFF, ON
01H xxH 0AH 0BH	NOISE GATE THRESHOLD	79H 60H-00H 00H	-80.0-0.0dB
01H xxH 0CH	NOISE GATE RELEASE	00H-7FH	30–5000ms
01H xxH 0DH	COMPRESSOR SW	00H-01H	OFF, ON
01H xxH 0EH 0FH	COMPRESSOR THRESHOLD	7BH 28H-00H 00H	-60.0–0.0dB
01H xxH 10H	COMPRESSOR RATIO	00H-0DH	1.00:1, 1.12:1, 1.25:1, 1.40:1, 1.60:1, 1.80:1, 2.00:1, 2.50:1, 3.20:1, 4.00:1, 5.60:1, 8.00:1, 16.0:1, INF:1
01H xxH 11H	COMPRESSOR ATTACK	00H-19H	0.2–100ms
01H xxH 12H	COMPRESSOR RELEASE	00H-7FH	30–5000ms
01H xxH 13H	COMPRESSOR AUTO GAIN	00H-01H	OFF, ON
01H xxH 14H 15H	COMPRESSOR MAKEUP GAIN	7CH 70H-00H 00H-03H 10H	-40.0-0.0-40.0dB
01H xxH 16H	EQUALIZER SW	00H-01H	OFF, ON
01H xxH 17H 18H	EQUALIZER HI GAIN	7EH 6AH-00H 00H-01H 16H	-15.0-0.0-15.0dB
01H xxH 19H	EQUALIZER HI FREQUENCY	44H-78H	1.00–20.0kHz
01H xxH 1AH 1BH	EQUALIZER Mid GAIN	7EH 6AH-00H 00H-01H 16H	-15.0-0.0-15.0dB
01H xxH 1CH	EQUALIZER Mid FREQUENCY	00H-78H	20Hz-20.0kHz
01H xxH 1DH	EQUALIZER Mid Q	00H-05H	0.5–16.0
01H xxH 1EH 1FH	EQUALIZER Lo GAIN	7EH 6AH-00H 00H-01H 16H	-15.0–0.0–15.0dB
01H xxH 20H	EQUALIZER Lo FREQUENCY	00H-38H	20-500Hz
01H xxH 21H	MONO	00H-03H	OFF, L ONLY, R ONLY, LR MIX

$\bigcirc \ \mathbf{Audio} \ \mathbf{Output} \ \mathbf{Assign}$

	· · · · · · · · · · · · · · · · · · ·				
Address	Parameter Name	Sys.Ex.Value	Meaning of Value		
01H 10H 00H	AUDIO OUT	00H-01H	MASTER OUTPUT, AUX		
01H 10H 01H	PHONES OUT	00H-01H	MASTER OUTPUT, AUX		
01H 10H 02H	HDMI OUTPUT 1	00H-02H	AUTO, MASTER OUTPUT, AUX		
01H 10H 03H	HDMI OUTPUT 2	00H-02H	AUTO, MASTER OUTPUT, AUX		
01H 10H 04H	HDMI OUTPUT 3	00H-02H	AUTO, MASTER OUTPUT, AUX		

O Audio Master Output

Address	Parameter Name	Sys.Ex.Value	Meaning of Value
01H 11H 00H 01H 02H	OUTPUT LEVEL	7EH 00H 00H, 7FH 79H 60H–00H 00H 00H–00H 00H 64H	-INFdB, -80.0–0.0–10.0dB
01H 11H 03H	OUTPUT MUTE	00H-01H	OFF, ON
01H 11H 04H	LIMITER SW	00H-01H	OFF, ON
01H 11H 05H 06H	LIMITER THRESHOLD	7CH 70H-00H 00H	-40.0-0.0dB
01H 11H 07H	EQUALIZER SW	00H-01H	OFF, ON
01H 11H 08H 09H	EQUALIZER HI GAIN	7EH 6AH-00H 00H-01H 16H	-15.0–0.0–15.0dB
01H 11H 0AH	EQUALIZER HI FREQUENCY	44H-78H	1.00-20.0kHz
01H 11H 0BH 0CH	EQUALIZER Mid GAIN	7EH 6AH-00H 00H-01H 16H	-15.0-0.0-15.0dB
01H 11H 0DH	EQUALIZER Mid FREQUENCY	00H-78H	20Hz-20.0kHz

Appendix

Address	Parameter Name	Sys.Ex.Value	Meaning of Value
01H 11H 0EH	EQUALIZER Mid Q	00H-05H	0.5–16.0
01H 11H 0FH 10H	EQUALIZER Lo GAIN	7EH 6AH-00H 00H-01H 16H	-15.0–0.0–15.0dB
01H 11H 11H	EQUALIZER Lo FREQUENCY	00H-38H	20-500Hz
01H 11H 12H	MULTI BAND COMPRESSOR SW	00H-01H	OFF, ON
01H 11H 13H 14H	MB COMP Hi THRESHOLD	7CH 70H-00H 00H	-40.0-0.0dB
01H 11H 15H	MB COMP Hi RATIO	00H-0DH	1.00:1, 1.12:1, 1.25:1, 1.40:1, 1.60:1, 1.80:1, 2.00:1, 2.50:1, 3.20:1, 4.00:1, 5.60:1, 8.00:1, 16.0:1, INF:1
01H 11H 16H 17H	MB COMP Mid THRESHOLD	7CH 70H-00H 00H	-40.0–0.0dB
01H 11H 18H	MB COMP Mid RATIO	00H-0DH	1.00:1, 1.12:1, 1.25:1, 1.40:1, 1.60:1, 1.80:1, 2.00:1, 2.50:1, 3.20:1, 4.00:1, 5.60:1, 8.00:1, 16.0:1, INF:1
01H 11H 19H 1AH	MB COMP Lo THRESHOLD	7CH 70H-00H 00H	-40.0–0.0dB
01H 11H 1BH	MB COMP Lo RATIO	00H-0DH	1.00:1, 1.12:1, 1.25:1, 1.40:1, 1.60:1, 1.80:1, 2.00:1, 2.50:1, 3.20:1, 4.00:1, 5.60:1, 8.00:1, 16.0:1, INF:1

O Audio AUX Output

Address	Parameter Name	Sys.Ex.Value	Meaning of Value
01H 12H 00H 01H 02H	OUTPUT LEVEL	7EH 00H 00H, 7FH 79H 60H–00H 00H 00H–00H 00H 64H	-INFdB, -80.0–0.0–10.0dB
01H 12H 03H	OUTPUT MUTE	00H-01H	OFF, ON
01H 12H 04H	LIMITER SW	00H-01H	OFF, ON
01H 12H 05H 06H	LIMITER THRESHOLD	7CH 70H-00H 00H	-40.0-0.0dB
01H 12H 07H	AUX SEND VIDEO	00H-01H	AUTO, MANUAL
01H 12H 08H	AUX SEND AUDIO IN	00H-01H	OFF, ON
01H 12H 09H	AUX EFFECT HDMI IN 1	00H-01H	DRY, WET
01H 12H 0AH	AUX EFFECT HDMI IN 2	00H-01H	DRY, WET
01H 12H 0BH	AUX EFFECT HDMI IN 3	00H-01H	DRY, WET
01H 12H 0CH	AUX EFFECT HDMI IN 4	00H-01H	DRY, WET
01H 12H 0DH	AUX EFFECT HDMI IN 5	00H-01H	DRY, WET
01H 12H 0EH	AUX EFFECT HDMI IN 6	00H-01H	DRY, WET
01H 12H 0FH	AUX EFFECT HDMI IN 7	00H-01H	DRY, WET
01H 12H 10H	AUX EFFECT HDMI IN 8	00H-01H	DRY, WET
01H 12H 11H	AUX EFFECT AUDIO IN	00H-01H	DRY, WET
01H 12H 12H 13H	AUX DELAY	00H 00H-27H 08H	0. 0–500.0ms
01H 12H 14H	AUX SEND HDMI IN 1	2FH-00H	-INFdB, -80-0dB
01H 12H 15H	AUX SEND HDMI IN 2	2FH-00H	-INFdB, -80-0dB
01H 12H 16H	AUX SEND HDMI IN 3	2FH-00H	-INFdB, -80-0dB
01H 12H 17H	AUX SEND HDMI IN 4	2FH-00H	-INFdB, -80-0dB
01H 12H 18H	AUX SEND HDMI IN 5	2FH-00H	-INFdB, -80-0dB
01H 12H 19H	AUX SEND HDMI IN 6	2FH-00H	-INFdB, -80-0dB
01H 12H 1AH	AUX SEND HDMI IN 7	2FH-00H	-INFdB, -80-0dB
01H 12H 1BH	AUX SEND HDMI IN 8	2FH-00H	-INFdB, -80-0dB
01H 12H 1CH	AUX SEND AUDIO IN	2FH-00H	-INFdB, -80–0dB

O Audio Follow

Address	Parameter Name	Sys.Ex.Value	Meaning of Value
01H 20H 00H	INPUT 1	00H-01H	OFF, ON
01H 20H 01H	INPUT 2	00H-01H	OFF, ON
01H 20H 02H	INPUT 3	00H-01H	OFF, ON
01H 20H 03H	INPUT 4	00H-01H	OFF, ON
01H 20H 04H	INPUT 5	00H-01H	OFF, ON
01H 20H 05H	INPUT 6	00H-01H	OFF, ON
01H 20H 06H	INPUT 7	00H-01H	OFF, ON
01H 20H 07H	INPUT 8	00H-01H	OFF, ON
01H 20H 08H	AUDIO IN	00H-08H	OFF, INPUT 1–8

System Parameter Area

○ Version

Address	Parameter Name	Sys.Ex.Value	Meaning of Value
02H 00H 00H	System Version Major	00H-09H	Version Number (Read Only)
02H 00H 01H	System Version Minor (1)	00H-09H	Version Number (Read Only)
02H 00H 02H	System Version Minor (2)	00H-09H	Version Number (Read Only)

○ System

Address	Parameter Name	Sys.Ex.Value	Meaning of Value
02H 01H 00H	HDCP	00H-01H	OFF, ON
02H 01H 01H	FRAME RATE	00H-02H	60, 59.94, 50 Hz
02H 01H 02H	SYSTEM FORMAT	00H-02H	1080p, 1080i, 720p
02H 01H 03H	CUT SW ASSIGN	00H-04H	▲AUTO TAKE, ▲AUTO TAKE▼, ▲CUT, ▲CUT▼, ▲TRANSFORM
02H 01H 04H	AUTO SW ASSIGN	00H-04H	AUTO TAKE▼, ▲AUTO TAKE▼, CUT▼, ▲CUT▼, TRANSFORM▼
02H 01H 05H	PANEL OPERATION	00H-01H	A/B, PGM/PST
02H 01H 06H	AUX LINKED PGM	00H-02H	OFF, AUTO, MANUAL
02H 01H 07H	OUTPUT FADE LEFT ASSIGN	00H-0CH	BLACK, WHITE, AUDIO, BLACK&AUDIO, WHITE&AUDIO, STILL 1–8 OUTPUT
02H 01H 08H	OUTPUT FADE RIGHT ASSIGN	00H-0CH	BLACK, WHITE, AUDIO, BLACK&AUDIO, WHITE&AUDIO, STILL 1–8 OUTPUT
02H 01H 09H	USER 1 SW ASSIGN	00H-27H	N/A, FREEZE, AUTO SWITCHING, BPM TAP, INPUT 1–8 ASSIGN, STILL 1–8 OUTPUT, HDMI IN 1–8 MUTE, AUDIO IN MUTE, OUTPUT MUTE, AUX MUTE, INPUT SCAN N, INPUT SCAN R, MEMORY SCAN N, MEMORY SCAN R, REC START/STOP, SEQUENCER MODE ON/OFF, SEQUENCER NEXT, SEQUENCER PREVIOUS, SEQUENCER AUTO SEQUENCE
02H 01H 0AH	USER 2 SW ASSIGN	00H-27H	N/A, FREEZE, AUTO SWITCHING, BPM TAP, INPUT 1–8 ASSIGN, STILL 1–8 OUTPUT, HDMI IN 1–8 MUTE, AUDIO IN MUTE, OUTPUT MUTE, AUX MUTE, INPUT SCAN N, INPUT SCAN R, MEMORY SCAN N, MEMORY SCAN R, REC START/STOP, SEQUENCER MODE ON/OFF, SEQUENCER NEXT, SEQUENCER PREVIOUS, SEQUENCER AUTO SEQUENCE
02H 01H 0BH	LED DIMMER	01H-08H	1–8
02H 01H 0CH	LCD DIMMER	01H-08H	1–8
02H 01H 0DH	ON SCREEN MENU	00H-03H	UPPER LEFT, UPPER RIGHT, LOWER LEFT, LOWER RIGHT
02H 01H 0EH	TALLY FRAME	00H-01H	OFF, ON
02H 01H 0FH	AUX/PinP MARK	00H-01H	OFF, ON
02H 01H 10H	REC MARK	00H-02H	OFF, ON
02H 01H 11H	AUDIO LEVEL METER SW	00H-01H	OFF, ON
02H 01H 12H	AUDIO LEVEL METER AUDIO IN	00H-02H	OFF, LOWER, UPPER
02H 01H 13H	MULTI-VIEW LABEL	00H-01H	OFF, ON
02H 01H 14H	MULTI-VIEW LAYOUT	00H-03H	PVW.PGM, PGM.PVW, BLACK.PGM, PGM.BLACK
02H 01H 15H	OUTPUT 3 OSD ON SCREEN MENU	00H-01H	OFF, ON
02H 01H 16H	OUTPUT 3 OSD TALLY FRAME	00H-01H	OFF, ON
02H 01H 17H	OUTPUT 3 OSD LABEL/LEVEL METER/MARK	00H-01H	OFF, ON
02H 01H 18H	AUTO INPUT DETECT	00H-01H	OFF, ON
02H 01H 19H	AUTO OFF	00H-01H	OFF, ON
02H 01H 1AH	TEST PATTERN	00H-05H	OFF, 75% COLOR BAR, 100% COLOR BAR, RAMP, STEP, HATCH
02H 01H 1BH	TEST TONE LEVEL	00H-03H	OFF, -20dB, -10dB, 0dB
02H 01H 1CH	AUX SW MODE	00H-01H	OFF, ON
02H 01H 1DH	LABEL SIZE	00H-01H	SMALL, NORMAL
02H 01H 1EH	TEST TONE FREQUENCY L	00H-02H	400Hz, 1kHz, 2kHz
02H 01H 1FH	TEST TONE FREQUENCY R	00H-02H	400Hz, 1kHz, 2kHz
02H 01H 20H	reserved		
02H 01H 21H	reserved		
02H 01H 22H	reserved		
02H 01H 23H	EFFECTS TRANSITION SYNC	00H-01H	OFF, ON
02H 01H 24H	TEST PATTERN MOTION	00H-02H	DISABLE, SLOW. FAST

O Panel Lock

Address	Parameter Name	Sys.Ex.Value	Meaning of Value
02H 02H 00H	A/PGM 1 SW	00H-01H	OFF, ON
02H 02H 01H	A/PGM 2 SW	00H-01H	OFF, ON
02H 02H 02H	A/PGM 3 SW	00H-01H	OFF, ON
02H 02H 03H	A/PGM 4 SW	00H-01H	OFF, ON
02H 02H 04H	A/PGM 5 SW	00H-01H	OFF, ON
02H 02H 05H	A/PGM 6 SW	00H-01H	OFF, ON

Address	Parameter Name	Sys.Ex.Value	Meaning of Value
02H 02H 06H	A/PGM 7 SW	00H-01H	OFF, ON
02H 02H 07H	A/PGM 8 SW	00H-01H	OFF, ON
02H 02H 08H	B/PST 1 SW	00H-01H	OFF, ON
02H 02H 09H	B/PST 2 SW	00H-01H	OFF, ON
02H 02H 0AH	B/PST 3 SW	00H-01H	OFF, ON
02H 02H 0BH	B/PST 4 SW	00H-01H	OFF, ON
02H 02H 0CH	B/PST 5 SW	00H-01H	OFF, ON
02H 02H 0DH	B/PST 6 SW	00H-01H	OFF, ON
02H 02H 0EH	B/PST 7 SW	00H-01H	OFF, ON
02H 02H 0FH	B/PST 8 SW	00H-01H	OFF, ON
02H 02H 10H	CUT SW	00H-01H	OFF, ON
02H 02H 11H	AUTO SW	00H-01H	OFF, ON
02H 02H 12H	AUX SW	00H-01H	OFF, ON
02H 02H 13H	MODE SW	00H-01H	OFF, ON
02H 02H 14H	TRANSITION SW	00H-01H	OFF, ON
02H 02H 15H	VIDEO FADER	00H-01H	OFF, ON
02H 02H 16H	VFX/SPLIT A BLOCK	00H-01H	OFF, ON
02H 02H 17H	VFX/SPLIT B BLOCK	00H-01H	OFF, ON
02H 02H 18H	PinP 1 BLOCK	00H-01H	OFF, ON
02H 02H 19H	PinP 2 BLOCK	00H-01H	OFF, ON
02H 02H 1AH	DSK BLOCK	00H-01H	OFF, ON
02H 02H 1BH	USER 1 SW	00H-01H	OFF, ON
02H 02H 1CH	USER 2 SW	00H-01H	OFF, ON
02H 02H 1DH	CAPTURE IMAGE SW	00H-01H	OFF, ON
02H 02H 1EH	OUTPUT FADE	00H-01H	OFF, ON
02H 02H 1FH	MACRO SW	00H-01H	OFF, ON

O Preset Memory

Address	Parameter Name	Sys.Ex.Value	Meaning of Value
02H 03H 00H	START UP	00H-18H	LAST MEMORY, MEMORY 1–24
02H 03H 01H	MEMORY PROTECT	00H-01H	OFF, ON
02H 03H 02H	PinP FADE TIME	00H-0AH	0.0–1.0s
02H 03H 03H	LOAD PARAMETER / VIDEO INPUT	00H-01H	OFF, ON
02H 03H 04H	LOAD PARAMETER / VIDEO OUTPUT	00H-01H	OFF, ON
02H 03H 05H	LOAD PARAMETER / TRANSITION TIME	00H-01H	OFF, ON
02H 03H 06H	LOAD PARAMETER / MIX/WIPE	00H-01H	OFF, ON
02H 03H 07H	LOAD PARAMETER / PinP	00H-01H	OFF, ON
02H 03H 08H	LOAD PARAMETER / DSK	00H-01H	OFF, ON
02H 03H 09H	LOAD PARAMETER / VFX/SPLIT	00H-01H	OFF, ON
02H 03H 0AH	LOAD PARAMETER / AUDIO INPUT	00H-01H	OFF, ON
02H 03H 0BH	LOAD PARAMETER / AUDIO OUTPUT	00H-01H	OFF, ON
02H 03H 0CH	LOAD PARAMETER / AUDIO FOLLOW	00H-01H	OFF, ON
02H 03H 0DH	LOAD PARAMETER / CROSSPOINT	00H-01H	OFF, ON
02H 03H 0EH	LOAD PARAMETER / T-Bar	00H-01H	INITIALIZE, ON
02H 03H 0FH	NUM OF MEMORY SW	00H-01H	OFF, ON
02H 03H 10H	LOAD FADE SW / MIX/WIPE	00H-01H	OFF, ON
02H 03H 11H	LOAD FADE SW / PinP 1	00H-01H	OFF, ON
02H 03H 12H	LOAD FADE SW / PinP 2	00H-01H	OFF, ON
02H 03H 13H	LOAD FADE SW / DSK	00H-01H	OFF, ON
02H 03H 14H	LOAD PARAMETER / AUX	00H-01H	OFF, ON

○ FREEZE

··				
Address	Parameter Name	Sys.Ex.Value	Meaning of Value	
02H 04H 00H	FREEZE TYPE	00H-01H	ALL, SELECT	
02H 04H 01H	FREEZE_SELECT HDMI IN 1	00H-01H	DISABLE, ENABLE	
02H 04H 02H	FREEZE_SELECT HDMI IN 2	00H-01H	DISABLE, ENABLE	
02H 04H 03H	FREEZE_SELECT HDMI IN 3	00H-01H	DISABLE, ENABLE	
02H 04H 04H	FREEZE_SELECT HDMI IN 4	00H-01H	DISABLE, ENABLE	
02H 04H 05H	FREEZE_SELECT HDMI IN 5	00H-01H	DISABLE, ENABLE	
02H 04H 06H	FREEZE_SELECT HDMI IN 6	00H-01H	DISABLE, ENABLE	
02H 04H 07H	FREEZE_SELECT HDMI IN 7	00H-01H	DISABLE, ENABLE	
02H 04H 08H	FREEZE_SELECT HDMI IN 8	00H-01H	DISABLE, ENABLE	

○ AUTO SWITCHING

Address	Parameter Name	Sys.Ex.Value	Meaning of Value
02H 05H 00H	AUTO SWITCHING SW	00H-01H	OFF, ON
02H 05H 01H	AUTO SWITCHING TYPE	00H-02H	INPUT SCAN, PRESET MEMORY SCAN, BPM SYNC
02H 05H 02H	INPUT SCAN SEQUENCE	00H-02H	NORMAL, REVERSE, RANDOM
02H 05H 03H	INPUT SCAN TRANSITION TIME	00H-28H	0.0-4.0s
02H 05H 04H	INPUT SCAN TIME / INPUT 1	00H-78H	0 –120s
02H 05H 05H	INPUT SCANTIME / INPUT 2	00H-78H	0–120s
02H 05H 06H	INPUT SCANTIME / INPUT 3	00H-78H	0–120s
02H 05H 07H	INPUT SCANTIME / INPUT 4	00H-78H	0–120s
02H 05H 08H	INPUT SCAN TIME / INPUT 5	00H-78H	0–120s
02H 05H 09H	INPUT SCANTIME / INPUT 6	00H-78H	0–120s
02H 05H 0AH	INPUT SCANTIME / INPUT 7	00H-78H	0–120s
02H 05H 0BH	INPUT SCANTIME / INPUT 8	00H-78H	0 –120s
02H 05H 0CH	MEMORY SCAN SEQUENCE	00H-02H	NORMAL, REVERSE, RANDOM
02H 05H 0DH	reserved		
02H 05H 0EH	reserved		
02H 05H 0FH	reserved		
02H 05H 10H	reserved		
02H 05H 11H	reserved		
02H 05H 12H	reserved		
02H 05H 13H	reserved		
02H 05H 14H	reserved		
02H 05H 15H 16H	BPM SYNC BPM	00H 14H-01H 7AH	20–250
02H 05H 17H	BPM SYNC MODE	00H-01H	TRANSITION, CUT
02H 05H 18H	BPM SYNC SPEED	00H-03H	x1/4, x1/2, x1, x2
02H 05H 19H	MEMORY SCAN TIME / MEMORY 1	00H-78H	0–120s
:	:		
02H 05H 30H	MEMORY SCAN TIME / MEMORY 24	00H-78H	0–120s

\bigcirc CTL/EXP

* "xxH" corresponds to the respective channels as indicated below. xxH: 06H–07H (CTL/EXP 1, 2)

Address	Parameter Name	Sys.Ex.Value	Meaning of Value
02H xxH 00H	CTL/EXP TYPE	00H-02H	OFF, CTL A & CTL B, EXP
02H xxH 01H 02H	CTL A ASSIGN	00H 00H-02H 02H	
02H xxH 03H 04H	CTL B ASSIGN	00H 00H-02H 02H	refer to p. 83
02H xxH 05H	EXP ASSIGN	00H-19H	refer to p. 84

○ STILL IMAGE

Address	Parameter Name	Sys.Ex.Value	Meaning of Value
02H 08H 00H	SAVE TO INTERNAL STORAGE	00H ~ 01H	DISABLE, ENABLE

○ LABEL EDIT

* "xxH" corresponds to the respective channels as indicated below. xxH: 10H–22H (HDMI 1–8, STILL 1–8, PROGRAM, PREVIEW, AUX)

Address	Parameter Name	Sys.Ex.Value	Meaning of Value
02H xxH 00H	LABEL (0)	20H-7EH	Character shown in the label (1st character)
02H xxH 01H	LABEL (1)	20H-7EH	Character shown in the label (2nd character)
02H xxH 02H	LABEL (2)	20H-7EH	Character shown in the label (3rd character)
02H xxH 03H	LABEL (3)	20H-7EH	Character shown in the label (4th character)
02H xxH 04H	LABEL (4)	20H-7EH	Character shown in the label (5th character)
02H xxH 05H	LABEL (5)	20H-7EH	Character shown in the label (6th character)
02H xxH 06H	LABEL (6)	20H-7EH	Character shown in the label (7th character)
02H xxH 07H	LABEL (7)	20H-7EH	Character shown in the label (8th character)

Other Parameter Area

○ Memory

Address	Parameter Name	Sys.Ex.Value	Meaning of Value
0AH 00H 00H	Memory Load Trigger	00H-17H	Memory 1–24 (Write Only)
0AH 00H 01H	Memory Save Trigger	00H-17H	Memory 1–24 (Write Only)
0AH 00H 02H	Memory Initialize Trigger	00H-17H	Memory 1–24 (Write Only)
0AH 00H 03H	Loaded Memory Number	00H–17H, 7FH	Memory 1–24, Last Memory (Read Only)

● Tally Parameter Area

Address	Parameter Name	Sys.Ex.Value	Meaning of Value
0CH 00H 00H	HDMI IN 1 TALLY	00H-02H	OFF, PGM, PST (Read Only)
0CH 00H 01H	HDMI IN 2 TALLY	00H-02H	OFF, PGM, PST (Read Only)
0CH 00H 02H	HDMI IN 3 TALLY	00H-02H	OFF, PGM, PST (Read Only)
0CH 00H 03H	HDMI IN 4 TALLY	00H-02H	OFF, PGM, PST (Read Only)
0CH 00H 04H	HDMI IN 5 TALLY	00H-02H	OFF, PGM, PST (Read Only)
0CH 00H 05H	HDMI IN 6 TALLY	00H-02H	OFF, PGM, PST (Read Only)
0CH 00H 06H	HDMI IN 7 TALLY	00H-02H	OFF, PGM, PST (Read Only)
0CH 00H 07H	HDMI IN 8 TALLY	00H-02H	OFF, PGM, PST (Read Only)

Preset Memory Area

You can load or rewrite the stored contents of the preset memories.

* The 2nd byte and 3rd byte of a Preset Memory Area address, and the value range, are in common with the Video Parameter Area (00H 00H 00H) and the Audio Parameter Area (01H 00H 00H).

Address	Parameter Name	Meaning of Value
10H 00H 00H	Video Parameter (Memory 1)	Load/rewrite video parameter stored in Memory 1
11H 00H 00H	Audio Parameter (Memory 1)	Load/rewrite audio parameter stored in Memory 1
12H 00H 00H	Video Parameter (Memory 2)	Load/rewrite video parameter stored in Memory 2
13H 00H 00H	Audio Parameter (Memory 2)	Load/rewrite audio parameter stored in Memory 2
14H 00H 00H	Video Parameter (Memory 3)	Load/rewrite video parameter stored in Memory 3
15H 00H 00H	Audio Parameter (Memory 3)	Load/rewrite audio parameter stored in Memory 3
16H 00H 00H	Video Parameter (Memory 4)	Load/rewrite video parameter stored in Memory 4
17H 00H 00H	Audio Parameter (Memory 4)	Load/rewrite audio parameter stored in Memory 4
18H 00H 00H	Video Parameter (Memory 5)	Load/rewrite video parameter stored in Memory 5
19H 00H 00H	Audio Parameter (Memory 5)	Load/rewrite audio parameter stored in Memory 5
1AH 00H 00H	Video Parameter (Memory 6)	Load/rewrite video parameter stored in Memory 6
1BH 00H 00H	Audio Parameter (Memory 6)	Load/rewrite audio parameter stored in Memory 6
1CH 00H 00H	Video Parameter (Memory 7)	Load/rewrite video parameter stored in Memory 7
1DH 00H 00H	Audio Parameter (Memory 7)	Load/rewrite audio parameter stored in Memory 7
1EH 00H 00H	Video Parameter (Memory 8)	Load/rewrite video parameter stored in Memory 8
1FH 00H 00H	Audio Parameter (Memory 8)	Load/rewrite audio parameter stored in Memory 8
:	:	
3EH 00H 00H	Video Parameter (Memory 24)	Load/rewrite video parameter stored in Memory 24
3FH 00H 00H	Audio Parameter (Memory 24)	Load/rewrite audio parameter stored in Memory 24

Preset Memory Name Area

xxH: 00H-17H (MEMORY 1-24)

Address	Parameter Name	Meaning of Value		
60H xxH 00H	NAME (0)	Name of preset memory number xx (1st character)		
60H xxH 01H	NAME (1)	Name of preset memory number xx (2nd character)		
60H xxH 02H	NAME (2)	Name of preset memory number xx (3rd character)		
60H xxH 03H	NAME (3)	Name of preset memory number xx (4th character)		
60H xxH 04H	NAME (4)	Name of preset memory number xx (5th character)		
60H xxH 05H	NAME (5)	Name of preset memory number xx (6th character)		
60H xxH 06H	NAME (6)	Name of preset memory number xx (7th character)		
60H xxH 07H	NAME (7)	Name of preset memory number xx (8th character)		

3. Supplementary Material

Decimal and Hexadecimal Table

(Hexadecimal Numbers are Indicated by 'H')

In MIDI documentation, data values and addresses/sizes of exclusive messages etc. are expressed as hexadecimal values for each 7 bits.

The following table shows how these correspond to decimal numbers.

D	Н	D	Н	D	Н	D	Н
0	00H	32	20H	64	40H	96	60H
1	01H	33	21H	65	41H	97	61H
2	02H	34	22H	66	42H	98	62H
3	03H	35	23H	67	43H	99	63H
4	04H	36	24H	68	44H	100	64H
5	05H	37	25H	69	45H	101	65H
6	06H	38	26H	70	46H	102	66H
7	07H	39	27H	71	47H	103	67H
8	08H	40	28H	72	48H	104	68H
9	09H	41	29H	73	49H	105	69H
10	0AH	42	2AH	74	4AH	106	6AH
11	0BH	43	2BH	75	4BH	107	6BH
12	0CH	44	2CH	76	4CH	108	6CH
13	0DH	45	2DH	77	4DH	109	6DH
14	0EH	46	2EH	78	4EH	110	6EH
15	0FH	47	2FH	79	4FH	111	6FH
16	10H	48	30H	80	50H	112	70H
17	11H	49	31H	81	51H	113	71H
18	12H	50	32H	82	52H	114	72H
19	13H	51	33H	83	53H	115	73H
20	14H	52	34H	84	54H	116	74H
21	15H	53	35H	85	55H	117	75H
22	16H	54	36H	86	56H	118	76H
23	17H	55	37H	87	57H	119	77H
24	18H	56	38H	88	58H	120	78H
25	19H	57	39H	89	59H	121	79H
26	1AH	58	3AH	90	5AH	122	7AH
27	1BH	59	3BH	91	5BH	123	7BH
28	1CH	60	3CH	92	5CH	124	7CH
29	1DH	61	3DH	93	5DH	125	7DH
30	1EH	62	3EH	94	5EH	126	7EH
31	1FH	63	3FH	95	5FH	127	7FH

D: decimal

H: hexadecimal

- * Decimal expressions used for MIDI channel, bank select, and program change are 1 greater than the decimal value shown in the above table.
- * Hexadecimal values in 7-bit units can express a maximum of 128 levels in one byte of data. If the data requires greater resolution, two or more bytes are used. For example, a value indicated by a hexadecimal expression in two 7-bit bytes aa bbH would be aa x 128 + bb.
- * Data marked "nibbled" is expressed in hexadecimal in 4-bit units. A value expressed as a 2-byte nibble 0a 0bH has the value of a x 16 + b.

<Example 1>

What is the decimal expression of 5AH? From the preceding table, 5AH = 90

<Example 2>

What is the decimal expression of the value 12 34H given as hexadecimal for each 7 bits?

From the preceding table, since 12H = 18 and 34H = 52

 $18 \times 128 + 52 = 2356$

<Example 3>

What is the decimal expression of the nibbled value 0A 03 09 0D? From the preceding table, since 0AH=10,03H=3,09H=9,0DH=13 (($10\times16+3)\times16+9$) $\times16+13=41885$

<Example 4>

What is the nibbled expression of the decimal value 1258?

16<u>) 1258</u> 16<u>) 78</u>... 10 16<u>) 4</u>... 14

0.4

Since from the preceding table, 0 = 00H, 4 = 04H, 14 = 0EH, 10 = 0AH, the answer is 00.04 0E 0AH.

MIDI Message Examples

<Example 1> 92H 3EH 5FH

9n is a note on status and n is the MIDI channel number.

As 2H = 2, 3EH = 62 and 5FH = 95, this is a note on message of MIDI CH = 3, note number 62 (D4) and velocity 95.

<Example 2> CEH 49H

CnH is program change status, and n is the MIDI channel number. As EH = 14 and 49H = 73, this is a program change message of MIDI CH = 15 and program number 74 (in the GS sound map, Flute).

■ Example of an Exclusive Message and Calculating a Checksum

Roland Exclusive messages are transmitted with a checksum at the end (before F7) to make sure that the message was correctly received. The value of the checksum is determined by the address and data (or size) of the transmitted exclusive message.

O How to Calculate the Checksum

(Hexadecimal Numbers are Indicated by 'H')

The checksum is a value that produces a lower 7 bits of zero when the address, size, and checksum itself are summed. If the exclusive message to be transmitted has an address of aa bb ccH and the data is dd ee ffH, the actual calculation would be as follows:

aa + bb + cc + dd + ee + ff = sum sum / 128 = quotient ... remainder 128 - remainder = checksum (However, the checksum will be 0 if the remainder is 0.)

<Example>

Setting Dissolve Time Ctrl Assign in MIDI Visual Control to Modulation for Control Changes

From the "Parameter Address Map", the start address of the Dissolve Time Ctrl Assign in MIDI Visual Control is 10H 10H 02H and the Modulation parameter in Control Change is 00H 01H. Therefore ...

F0H	7EH	00H	0CH 01H	10H 10H 02H	00H 01H	??H	F7H
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)

- (1) Exclusive Status
- (2) ID Number (Universal SysEx Non Realtime)
- (3) Device ID (0)
- (4) Sub ID (MIDI Visual Control Version 1.0)
- (5) Address
- (6) Data
- (7) Checksum
- (8) EOX

Next calculate the checksum. Add (5) to (6).

10H + 10H + 02H + 00H + 01H = 16 + 16 + 2 + 0 + 1 = 35 (sum)

35 (sum) / 128 = 0 (quotient) ... 35 (remainder)

Checksum = 128 - 35 (remainder) = 93 = 5DH

Thus, the message to transmit is: F0H 7EH 00H 0CH 01H 10H 10H 02H 00H 01H 5DH F7H

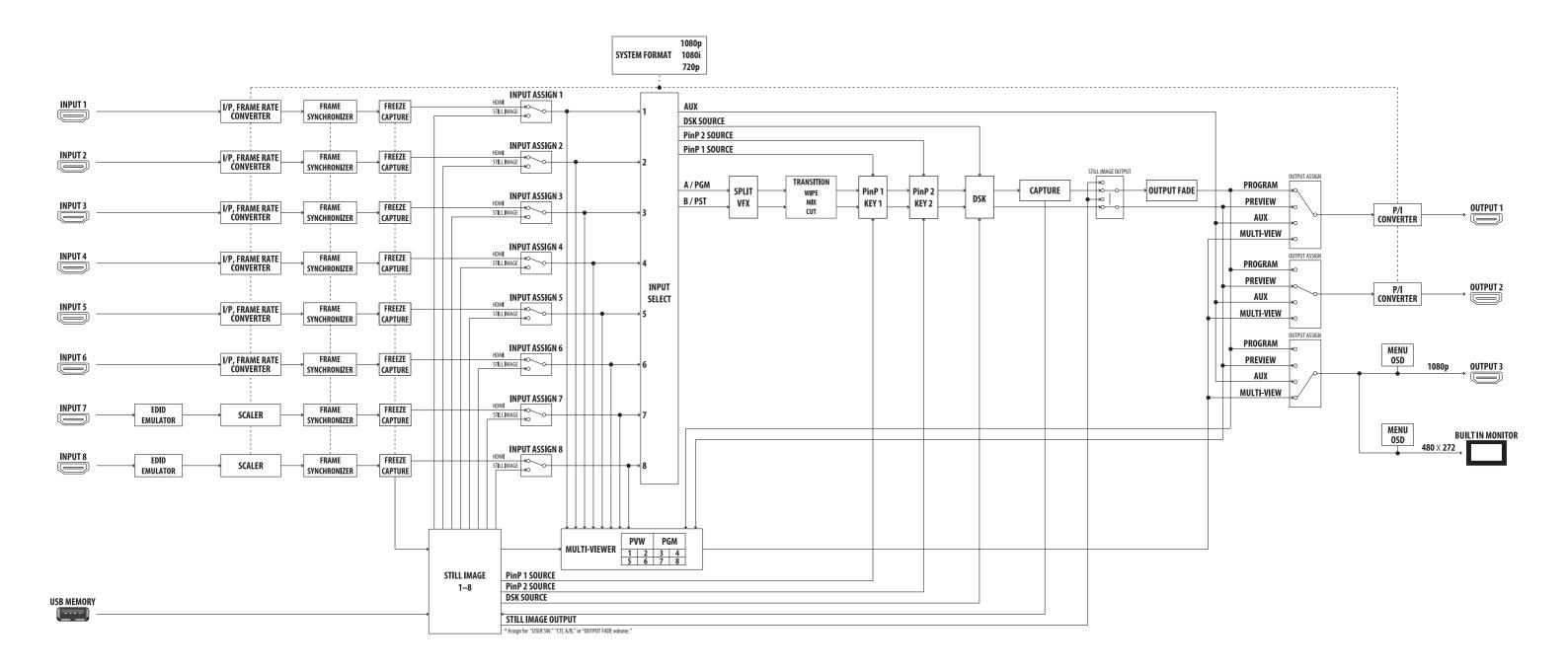
MIDI Implementation Chart

Date: Oct. 8, 2021 Version: 2.00

Function		Transmitted	Recognized	Remarks
Basic	Default	1	1	
Channel	Changed	1	1	
-	Default	×	×	
Mode	Messages	×	×	
Wode	Altered	********	*******	
Note	True Voice	×	×	
Number				
Velocity	Note On	×	×	
velocity	Note Off	×	×	
After	Key's	×	×	
Touch	Channel's	×	×	
Pitch Bend		×	×	
	0-9	X	×	
	10–31		0	Controls various parameters
	32–46		0	
	46–51		×	
	52-65		0	
	66–119		×	
Control				
Change				
Program		×	0	
Program Change	: True Number	^	1-8	
Change	. irue ivumber			
System Exclusive		0	0	
System	: Song Position	×	×	
Common	: Song Select	×	×	
	: Tune Request	×	×	
System	: Clock	×	×	
Real Time	: Commands	×	×	
	: All Sound Off	×	×	
	: Reset All Controllers	×	×	
Aux	: Local On/Off	×	×	
Messages	: All Notes Off	×	×	
.	: Active Sensing	×	×	
	: System Reset	×	×	
	. system neset	, ,	1	
Notes				

Mode 1 : OMNI ON, POLY Mode 3 : OMNI OFF, POLY Mode 2 : OMNI ON, MONO Mode 4 : OMNI OFF, MONO

VIDEO Block Diagram



AUDIO Block Diagram

