



# **SHARK S6**

# 6 CHANNEL HDMI/SDI MULTI-FORMAT STREAMING VIDEO SWITCHER

# **USING THE UNIT SAFELY**

Before using this unit, please read below warning and precautions which provide important information concerning the proper operation of the unit. Besides, to assure that you have gained a good grasp of every feature of your new unit, read below manual. This manual should be saved and kept on hand for further convenient reference.



# Warning And Cautions

※ Operate unit only on the specified supply voltage.

% Disconnect power cord by connector only. Do not pull on cable portion.

※ Do not place or drop heavy or sharp-edged objects on power cord. A damaged cord can cause fire or electrical shock hazards. Regularly check power cord for excessive wear or damage to avoid possible fire / electrical hazards.

% Ensure unit is properly grounded at all times to prevent electrical shock hazard.

% Do not operate unit in hazardous or potentially explosive atmospheres. Doing so could result in fire, explosion, or other dangerous results.

※ Handle with care to avoid shocks in transit. Shocks may cause malfunction. When you need to transport the unit, use the original packing materials or alternate adequate packing.

% Do not remove covers, panels, casing, or access circuitry with power applied to the unit! Turn power off and disconnect power cord prior to removal. Internal servicing / adjustment of unit should only be performed by qualified personnel.

% Turn off the unit if an abnormality or malfunction occurs. Disconnect everything before moving the unit.

# Please select the best installation position

% Do not cover the air inlet and outlet of the unit, make sure that there is sufficient space around the ventilation holes on both sides to avoid blockage of ventilation.

% To avoid falling or damage, please do not place this unit on an unstable cart, stand, or table. Make sure install this unit on a very stable horizontal surface for use.

% Do not use this unit in a humid, dusty location or near water. Avoid liquids, metal pieces or other foreign materials to enter the unit.

% Do not use this unit in an environment where the temperature is too cold or too hot.

X Avoid placing this unit in direct sunlight or in a place where hot air from other products can blow.

Note: due to constant effort to improve products and product features, specifications may change without notice.

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# **1. BRIEF INTRODUCTION**

### 1.1. Overview

SHARK S6 is a 6-channel HDMI&SDI multi-format video Switcher with a 5-inch LCD display. It supports various functions including LAN streaming, recording, video switching, audio mixing, PGM/ Multiview/ AUX out, different transition effects, Luma Key, Chroma Key, DSK, LOGO, PIP/ POP, PTZ control etc.



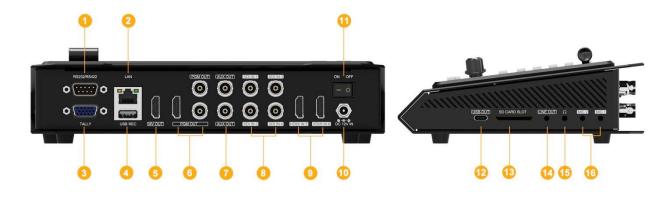
# 1.2. Main Features

- Built-in 5-inch LCD display
- Input: 4×SDI and 2×HDMI
- Output: 2×SDI, 1×HDMI PGM, 2×SDI AUX ,1×HDMI Multiview, 1×USB Type-C,
- Professional chroma Key, downstream key, 2PIP/ POP, and LOGO overlay
- T-bar/ Auto/ Cut transitions, various effects: MIX/ DIP/ WIPE effects
- FTB/ STILL, GPIO port for tally system, RS232/RS422/RS485
- Multiview layout style: Landscape and portrait mode
- RTMP stream & USB disk/ SD card record
- USB-C for capturing and streaming on PC
- Audio mixer: 4×SDI, 2×HDMI audio & 2×MIC in
- PTZ camera control: VISCA, VISCA over IP, PELCO & ONVIF protocols

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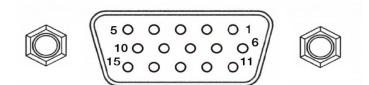
# 2. INTERFACES

# 2.1. Interface Overview



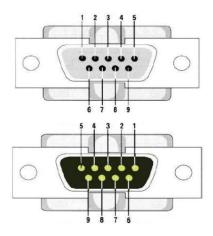
1	RS232/RS422/RS485	9	HDMI IN × 2
2	LAN (for streaming and PC remote control)	10	DC 12V IN × 1
3	GPIO (for tally)	11	POWER SWITCH
4	USB REC (for recording and importing logo)	12	USB OUT × 1 (for capturing on PC)
5	MULTIVIEW OUT × 1	13	SD CARD SLOT (for recording)
6	HDMI PGM OUT × 1, SDI PGM OUT × 2	14	LINE OUT × 1
7	AUX OUT × 2	15	EARPHONE OUT × 1
8	SDI IN × 4	16	MIC IN × 2

# 2.2. Tally PIN Definition



PIN	Definition	PIN	Definition
11	PGM-IN1	6	PVW-IN1
12	PGM-IN2	7	PVW-IN2
13	PGM-IN3	8	PVW-IN3
14	PGM-IN4	9	PVW-IN4
15	PGM-IN5	10	PVW-IN5
3	PGM-IN6	4	PVW-IN6
5	GND	1	GPIO
2	GPIO		

# 2.3. RS232/RS422/RS485 (DB9) Definition



NO.	Port	Definition		
1	RXD-	RS422		
2	RXD	Receive Data		
3	TXD	Transmit Data		
4	TXD+	RS422		
5	GND	System Ground		
6	RXD+	RS422		
7	RTS	Request to Send		
8	CTS	Clear to Send		
9	TXD-	RS422		

# 3. SPECIFICATION

CONNECTION	
Video In	SD/HD/3G-SDI(75 Ω ) ×4, HDMI type-A(100 Ω ) ×2
PGM Outputs	HD/3G-SDI(75Ω) ×2, HDMI Type-A(100Ω) ×1
Multiview Outputs	HDMI type-A(100 Ω ) ×1
AUX Outputs	3G-SDI(75Ω) ×2, including IN1~6, PVW, PGM, Color Bar, Multiview
Stream Output	LAN
Capture Output	USB type-C
Audio Input	MIC ×2
Audio Output	Line ×1, Earphone slot×1
Media Port	USB type-A×1
Camera Control Port	LAN, RS232/RS422/RS485
Tally Port	DB-15
Power In	DC 12V
STREAM& REC	
Bitrate	2M~32Mbps
Rate Control	CBR/VBR
Stream Protocols	RTMP(S)/ RTSP/ SRT
REC SD Card Format	FAT32/exFAT/NTFS
REC USB Disk Format	FAT32/exFAT/NTFS
REC File segment	1~120mins

FUNCTIONS				
Transitions	T-Bar/ AUTO/ CUT			
Effects	WIPE(11×3 patterns)/ MIX/ DIP/ STILL(freeze)/ FTB			
Multiview Layout	Landscape & Portrait Mode			
Upstream Key	Chroma Key $\times$ 1, PIP $\times$ 2/ POP $\times$ 1			
Downstream Key	DSK $\times$ 1, Logo $\times$ 1			
Audio Function	AFV, Mix, Audio delay			
Logo Library	Up to 8 PNG images			
Record Storage	USB Disk/ SD Card			
Display	5-inch HD LCD Display			
STANDARDS				
	1080p 60/59.94/50/30/29.97/25/24/23.98			
	1080psF 30/29.97/25/24/23.98			
SDI Input Format	1080i 60/59.94/50			
Support	720p 60/59.94/50/30/29.97/25/24/23.98			
	625i 50 PAL, 525i 59.94 NTSC			
	1200p 60/50/30			
HDMI Input Format	1080p 60/59.94/50/30/29.97/25/24/23.98/23.976			
Support	1080i 50/59.94/60			
Support	720p 60/59.94/50/30/29.97/25/24/23.98			
	576i 50, 576p 50			
PGM Output Format	1080p 60/59.94/50/30/29.97/25/24/23.98			
F GM Output I offiat	1080i 60/50/59.94			
Multiview Output Format	1080p 60			
Color Space	RGB Full/ RGB Limited/ YUV			
SDI Video Rate	Auto Detection, SD/HD/3G-SDI			
SDI Compliance	SMPTE 292M/ SMPTE 259M/ SMPTE 424M			
USB Capture Out	MJPG, up to 1080p 60			
Supports OS	Windows 7/8/10/11, Linux (Kernel version 2.6.38 and above), Mac OS (10.8			
	and above)			
Capture Compatibility	OBS Studio, Skype, ZOOM, Teams, Youtube, Live, etc.			
OTHERS				
Power	DC 12V 1.5A, 18W			
Dimension (LWD)	238.5×168.2×47.5mm			
Weight	Net Weight: 1450g, Gross Weight: 2370g			

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Temperature

**Working: -20℃~60℃, Storage: -30℃~70℃** 

# 4. FRONT CONTROL PANEL



1	FTB/STILL	FTB: Fade to Black, used for emergency.	
		STILL: Freeze the input sources.	
		EFFECT: WIPE/MIX/DIP	
		AUDIO: User can configure the audio of each channel in this area, including	
	EFFECT&	AFV or audio mix mode, audio source selecting, adjust volume + & volume -	
2	AUDIO& KEYS	CHROMA: Enable the Chroma Key	
		PIP1/PIP2: Enable two group of Picture in Picture. Size and position can be	
		set via Menu.	
		DSK: Enable the downstream key	
		LOGO: Add logo bin from USB flash disk, enable the logo overlay	
3	STREAM&	STREAM: For streaming	
	RECORD	RECORD: Record the image on a USB disk or SD card	
4	PTZ Control	Use the joystick and buttons to pan, tilt and zoom the PTZ camera.	
5	PGM & PVW	Selecting the signal source for Program and Preview.	
6	CUT/ AUTO	CUT: Performs a simple immediate switch between Program and Preview.	
		AUTO: Performs an automated switch between Program and Preview.	
7	MENU	For menu control, configure different parameter	
8	T-Bar	Switch the PVW and PGM through T-Bar	

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9 DISPLAY

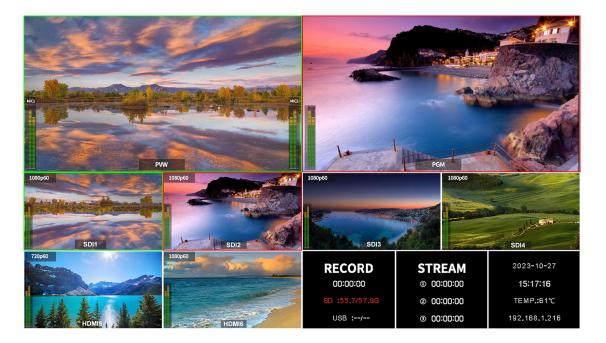
5-inch LCD display, Multiview monitoring

# 5. LCD SCREEN

The switcher is a compact design that build-in a 5 inch LCD screen. Users can conveniently monitor the multiview on the screen or check menu through the screen.

### 5.1. Multiview Monitoring

The multiview provides clear windows of PVW, PGM, SDI1, SDI2, SDI3, SDI4, HDMI5, HDMI6, and the Record/Stream status page. The multiview's status page provides real-time updates as settings are modified, ensuring users are always aware of the current system configuration. See the below image:



# 5.2. Menu Interface

Simply press the menu button on the switcher to seamlessly transition from the multiview display to the comprehensive menu interface on the built-in screen. Please mention that he menu is exclusively accessible on the built-in screen and not on the HDMI multiview output.)

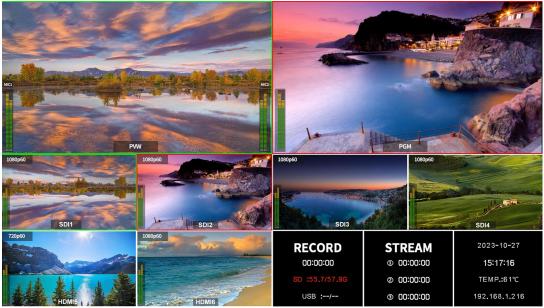
	Wipe	Style	Style
		Softness	8
🖻 Transitions		DirectiON	Normal
🏝 Upstreamkey	DIP	Color R	1
🛓 Downstreamkey		Color G	0
Multiview		Color B	0
🕩 Output	Speed	Speed	0.5s
Record Stream	Chroma	Key Status	OFF
⊙ PTZ		Key Source	HDMI 5
📽 System		Similarity	17

# 6. SIGNAL SWITCHING

# 6.1. PGM & PVW Channel Selection

Select PGM and PVW sources directly from buttons on the front panel. The selected PGM button will illuminate with a red LED, while the selected PVW button will glow with a green LED. For clear visual identification, PGM source will be framed by a red border, and PVW source will be outlined in green.





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# 6.2. Transition: CUT/ AUTO/ T-BAR

This video switcher offers three transition control types: CUT, AUTO and T-Bar.

**CUT** performs a quick transition between Preview and Program, bypassing any selected transition effects like WIPE, MIX, or DIP.

**AUTO** performs a smooth transition between Preview and Program, allowing to adjust the transition speed using the speed button. WIPE, DIP, and MIX transition effects are available.

**T-BAR** performs manual transition, which is similar flexible to AUTO transition. Users can control the transition speed by the movement of the T-Bar lever.

# 7. TRANSITION EFFECT

The video switcher provides various transition effects and settings for choice.

### 7.1. WIPE

Outside of menu mode, simply press the EFFECT button on the panel to summon a quick menu in the display's left corner. Select the WIPE option to swiftly apply the wipe transition effect. For added customization, adjust the WIPE style and edge softness to your preference. When using the AUTO transition, choose between Normal, Invert, and Flip-Flop directions.



# 7.2. DIP

Outside of menu mode, simply press the EFFECT button on the panel to summon a quick menu in the display's left corner. Select the DIP option to promptly apply the dip transition effect. For added customization, adjust the DIP color through the DIP RGB menu option. The default color is black.



DIP to Black (fade out):



DIP to White (fade out):



### 7.3. MIX

Outside of menu mode, simply press the EFFECT button on the panel and select the MIX option to swiftly apply the mix transition effect.



# 7.4. Transition Speed

Customize the transition speed to match your production needs directly from the menu. The selected speed setting will be automatically saved for future use. Higher values correspond to slower transition speeds, with a wide range of options from 0.1 seconds to 8.0 seconds available to cater to diverse creative requirements.

	Wipe	Style	Style
		Softness	
🖻 Transitions		DirectiON	Normal
ᆂ Upstreamkey	DIP	Color R	
🕹 Downstreamkey		Color G	
Multiview		Color B	
🕩 Output	Speed	Speed	0.5s
Record Stream	Chroma	Key Status	OFF
⊙ PTZ		Key Source	HDMI 5
📽 System		Similarity	17

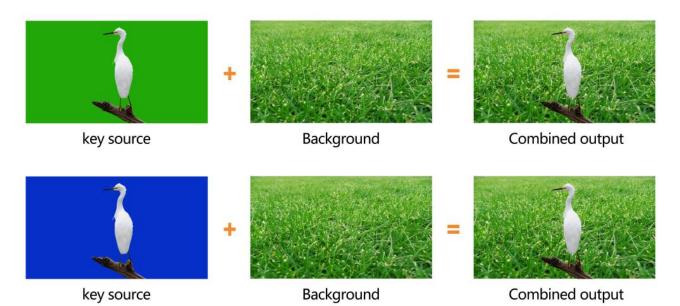
# 8. UPSTREAM KEY

Upstream keys are intrinsically integrated into the transition process. When switching from Preview to Program, any upstream key elements will seamlessly transition alongside the main video content.

### 8.1. Chroma key

Chroma key is a visual effects technique that combines (overlay) two images or video streams based on color hues (chroma range). It's commonly used to remove a background from the subject of a photo or

#### video, particularly in newscasting, movies, and video games.



Access the chroma key menu to select the desired key source from SDI1, SDI2, SDI3, SDI4, HDMI5, HDMI6, Color Bar, or Black video sources. In Fetch XY mode, utilize the 3D joystick to pinpoint the color you want to remove. Fine-tune the chroma key's similarity, smoothness, spill, and opacity to achieve the desired effect. Additionally, configure the chroma key's effect parameters, including Brightness, Contrast, Saturation, and Mask, directly from the menu page.

AVMATRIX	Chroma	Key Status	OFF	
		Key Source	HDMI 5	
🖻 Transitions		Similarity	17	
🏝 Upstreamkey		Smooth	32	
🕹 Downstreamkey		Spill	14	
<b>Hultiview</b>		Opacity	45	
🕩 Output		Fetch Switch	OFF	
Record Stream		Fetch XY	(182,225)	

AVMATRIX			
	Brightness	50	
🔁 Transitions	Contrast	50	
🎝 Upstreamkey	Saturation	50	
🕹 Downstreamkey	Mask Enable	OFF	
Multiview	Mask Left	0	
🕩 Output	Mask Top	0	
Record Stream	Mask Right	50	
• PTZ	Mask Bottom	50	

Outside of menu mode, pressing the CHROMA button on the panel prompts a menu for quick selection of chroma key activation on PVW, PGM, or both. Detailed settings can be configured in the menu.

CHROMA button **PGM**: Enables chroma key on PGM

CHROMA button **PVW**: Enables chroma key on PVW

CHROMA button **PGM&PVW**: Enables chroma key on both PVW and PGM

CHROMA button **OFF**: Disables chroma key

Chroma key detailed parameters are as follows:

Menu	Sub-menu	ltem	Parameter	Default
		Key Status	OFF/ PVW/ PGM/ PVW&PGM	OFF
		Key Source	SDI1/ SDI2/ SDI3/ SDI4/ HDMI5/ HDMI6/	COLOR
			BLACK/ COLOR BAR	BAR
		Similarity	0~255	5
		Smooth	0~255	5
		Spill	0~255	0
		Opacity	0-128	128
Linetreem Key	Chrome	Fetch Switch	On/Off	On
Upstream Key	Chroma	Fetch XY	(0,0)	(0,0)
		Brightness	0%-100%	50%
		Contrast	0%-100%	50%
		Saturation	0%-100%	50%
		Mask Enable	On/Off	Off
		Mask Left	0%-100%	0%
		Mask Top	0%-100%	0%
		Mask Right	0%-100%	50%
		Mask Bottom	0%-100%	50%

### 8.2. PIP & POP



The video switcher supports two PIP or one POP. Outside of menu mode, pressing the PIP1 or PIP2 button on the panel displays a quick menu in the left corner for selecting PIP application on PVW or PGM or both. Access the menu settings, navigate to PIP settings, and configure position, size, border, source,

and other parameters.

PIP1/PIP2 button **PVW**: Displays PIP1 or PIP2 on PVW.

PIP1/PIP2 button **PGM**: Enables PIP1 or PIP2 on PGM.

PIP1/PIP2 button **PVW&PGM**: Enables PIP1 or PIP2 on both PVW and PGM.

PIP1/PIP2 button **OFF**: Disables PIP1 or PIP2.

Configure POP settings in the menu. When POP is active, PIP is disabled.

PIP & POP detailed parameters are as follows.

Menu	Sub-Menu	ltem	Parameter	Default
		Border Status	On/Off	On
	Border Color	Color	White	
		Border Width	0~15	2
		PIP1 Status	OFF/ PVW/ PGM/ PVW&PGM	Off
		PIP1 Source	SDI1/ SDI2/ SDI3/ SDI4/ HDMI5/ HDMI6/ BLACK/ COLOR BAR	SDI1
		PIP1 Size	1/2 1/3 1/4	1/3
		PIP1 Position X	0~100	0
		PIP1 Position Y	0~100	0
Upstream Key	PIP/POP	PIP2 Status	OFF/ PVW/ PGM/ PVW&PGM	Off
		PIP2 Source	SDI1/ SDI2/ SDI3/ SDI4/ HDMI5/ HDMI6/ BLACK/ COLOR BAR	SDI2
		PIP2 Size	1/2 1/3 1/4	1/3
		PIP2 Position X	0~100	100
		PIP2 Position Y	0~100	0
		POP Status	OFF/ PVW/ PGM/ PVW&PGM	off
		POP Source 1	SDI1/ SDI2/ SDI3/ SDI4/ HDMI5/ HDMI6/ BLACK/ COLOR BAR	HDMI5
		POP Source 2	SDI1/ SDI2/ SDI3/ SDI4/ HDMI5/ HDMI6/ BLACK/ COLOR BAR	SDI2

# 9. DOWNSTREAM KEY

Downstream keys (DSKs) are the final layers of keying, overlaying all video switched to the main program output. They function independently of the selected background, ensuring that any content placed on a

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DSK remains on the screen regardless of transition changes. DSKs are ideal for incorporating animated bugs or logos into the program output.

# 9.1. TIE

As we know the DSK is usually used for logo or title overlay into the program out directly, but if users want to make downstream key active in transition when use AUTO or T-Bar, can just turn on the TIE option from the menu.

### 9.2. DSK



Key source

Background

Combined output

DSK settings, including source (Key Source), clip, gain, and mask (Mask Enable, Mask Left, Mask Top, Mask Right, Mask Bottom), can be configured from the menu. Select the PGM button in DSK status to enable the KEY on PGM. The key will not be affected when switching between PVW and PGM. Choose from the following options to determine whether the DSK key applies to PGM or PVW:

Menu	Sub-Menu	ltem	Parameter	Default	
		DSK Status	OFF/ PVW/ PGM/ PVW&PGM	Off	
		Key Source		SDI1/ SDI2/ SDI3/ SDI4/ HDMI5/ HDMI6/ BLACK/ COLOR BAR	COLOR BAR
		Clip	0%-100%	0%	
		Gain	0%-100%	0%	
Downstream Key	DSK	Invert Key	On/Off	Off	
		Mask Enable	On/Off	Off	
		Mask Left	0%-100%	0	
		Mask Top	0%-100%	0	
		Mask Right	0%-100%	0	
		Mask Bottom	0%-100%	0	

DSK button **PVW**: DSK key shows on PVW

DSK button PGM: DSK Key available on PGM

DSK button PVW&PGM: DSK Key available on both PVW and PGM

DSK button OFF: DSK Key off

Downstream Key detailed parameters are as follows:

### 9.3. LOGO

The switcher enables users to import logos. Access the logo settings interface by pressing the menu knob and navigate to the media pool on the USB disk to select the desired logo. Rotate the menu knob to adjust logo position, size, and opacity. Press the logo delete button to remove a logo. Up to eight logos can be imported simultaneously. Logo name supports up to 11 characters.

#### Supported logo formats: PNG

Maximum logo size: 512x320 pixels

AVMATRIX	Logo	Logo Status	OFF	AVMATRIX
		Logo Selection	sky	11
🖻 Transitions		Import	Import	12
🏝 Upstreamkey		Delete	Delete	sky
📥 Downstreamkey		Position X		
Multiview		Position Y		
🕩 Output		Size	1.0	
Record Stream		Opacity	55	
🖸 PTZ	Layout	Layout Style	Horizontal	
📽 System	Audio Mete	er All Enable		

Choose from the following options to determine whether the logo key applies to PGM or PVW:

LOGO button **PVW**: Displays the logo on PVW

LOGO button **PGM**: Enables the logo on PGM

LOGO button **PVW&PGM**: Enables the logo on both PVW and PGM

LOGO button **OFF**: Disables the logo.



# 10. MULTIVIEW

The Multiview can be not only monitored through the build-in screen, but also can be monitored by connecting the HDMI Multiview output to an additional monitor for a larger view.

# 10.1. Multiview Layouts

The switcher offers two distinct multiview layouts, adaptable to your specific needs and preferences. You can effortlessly switch between a landscape and a portrait layout directly from the intuitive menu interface. **- Landscape mode:** 



- Portrait mode:



### 10.2. Audio Meter

Each window of the multiview features dedicated audio meters for SDI1-4, HDMI5-6, PGM, and MIC, providing real-time visual feedback on the audio status of each source. Additionally, the audio meters for MIC 1 and MIC 2 are conveniently positioned on the left and right sides of the PVW window. For added flexibility, users can enable or disable individual ones directly from the menu. The audio meter position can also be customized to appear on the left or right of each window.

AVMATRIX	Audio Meter All Enable	ON	
	SDI1 Enable		
Transitions	SDI2 Enable		
L Upstreamkey	SDI3 Enable		
Downstreamkey	SDI4 Enable		
Multiview	HDMI1 Enable		
• Output	HDMI2 Enable		
Record Stream	PGM Enable		
• PTZ	MIC Enable		
🗱 System	Position	Left	

### **10.3.** Input Information

Each window of SDI 1-4 and HDMI 5-6 displays the resolution and frame rate of the corresponding HDMI/SDI input signal. When enable the input mode, the information will be display on the right of each window. This valuable information allows users to quickly identify and verify the source signal at a glance.



For optimal visibility, users can tailor the overlay's opacity to their preference, choosing from four levels: 25%, 50%, 75%, or 100%. This flexibility ensures that the overlay remains informative without obscuring the underlying video content.

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1 Upstreamkey	Input Mode	Enable	
🖢 Downstreamkey	UMD	Enable	ON
Multiview	Opacity	Opacity	100%

# 10.4. UMD Settings

The default UMD of the six inputs are SDI1, SDI2, SDI3, SDI4, HDMI5, HDMI6. Users have the flexibility to turn the UMDs on or off as needed. Additionally, the UMD's opacity can be adjusted to four levels: 25%, 50%, 75%, or 100%.

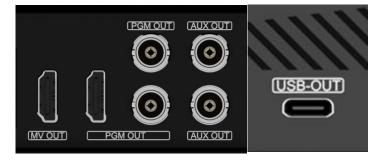
		Opacity	100%	100%
	Input Mode	Enable		75%
🖻 Transitions	UMD	Enable		50%
🏝 Upstreamkey	Opacity	Opacity	100%	25%
🕹 Downstreamkey	UMD String	SDI1 String	SDI1	
== Multiview		SDI2 String	SDI2	
🕩 Output		SDI3 String	SD13	

Tailor the UMD labels to your specific needs using the intuitive menu interface. With the virtual keyboard and rotary knob, you can effortlessly rename the UMD content for each window, accommodating up to 10 characters per label. Below image provides an example.

AVMATRIX	Opacity	Opacity	100%			SD	11	٦
	UMD String	SDI1 String	SDI1					<u>_</u>
🖻 Transitions		SDI2 String	SDI2	<				
🏝 Upstreamkey		SDI3 String	SD13		+		Aa	A
🕹 Downstreamkey		J	SDI4	В	С	D	E	F
Multiview		SDI4 String		G	Н	1	J	K
		HDMI1 String	HDMI5	L	М	N	0	Р
🕩 Output		HDMI2 String	HDMI6	Q	R	S	Т	U
Record Stream		PVW String	PVW	۷	W	Х	Y	Z
O PTZ		PGM String	PGM	0	1	2	3	4
📽 System	Interfaces	AUX Sel	MULTIVIEW	5	6	7	8	9

# 11. OUTPUT SETTINGS

### **11.1.** Output Interfaces



The switcher boasts a comprehensive range of output options, catering to diverse user requirements. It has 6 video output interfaces on the back of the switcher, 1 HDMI Multiview out, 2 SDI and 1 HDMI PGM outs, 2 AUX outs. And it has a USB-C port on the side of the switcher.

#### 11.1.1. PGM Out

The video switcher has 2 SDI ports and 1 HDMI ports for PGM outputs. The multiple PGM outputs are flexible for users to connect the PGM signals to serval devices for live streaming or monitoring.

#### 11.1.2. Multiview Out

The HDMI multiview port's default output is the Multiview. Connect it to an additional LCD display to clearly monitor the 4 SDI, 2 HDMI inputs, PVW, PGM, and status interface.

#### 11.1.3. AUX Out

The AUX OUTs can be configured to output SDI1, SDI2, SDI3, SDI4, HDMI5, HDMI6, PVW, PGM, Color Bar or Multiview out signal from the menu.

	Interfaces	AUX Sel	MULTIVIEW	
AVMATRIX				SDI 1
	Format	Mode	Integer	SDI 2
🖻 Transitions		AUX Format	1080p60	SDI 3
🏝 Upstreamkey		Color Space	RGB Full	SDI 4
🛓 Downstreamkey		Brightness	50	HDMI 5
Multiview		Contrast	50	HDMI 6
🕩 Output				COLORBAR
		Saturation	50	PVW
Record Stream	FTB	FTB/MUTE Speed	d 0.5s	PGM
• PTZ		FTB With MUTE		MULTIVIEW
<b>¤</b> ‡ System	Encode	Bitrate	8Mbps	

#### 11.1.4. USB-C Out

Connecting the USB output to a PC with a type-C USB2.0 cable, user can use software like OBS, PotPlayer, VMix, etc. to play or store the captured USB Out video and audio on live streaming platforms like YouTube, Facebook, Twitter, etc. The USB2.0 streaming output is based on UVC (USB video class) and UAC (USB audio class) standard. No additional drivers need be installed. The relevant video and audio devices will be detected in the Windows Device Manager as below:

- Under Imaging Devices: USB Capture Video
- Under Audio inputs and outputs: USB Capture Audio

The default video source for USB out is the PGM output.

#### 11.2. Output Format Settings

Configure the output format in the menu, including AUX format, color space, brightness, contrast, and saturation.

#### 11.2.1. Output Format

The switcher supports up/ down scaling output. Besides, user can switch the Frame Rate Mode between

Integer or Decimal. When the Frame Rate Mode is integer, there are 1080i50, 1080i60, 1080p24, 1080p25, 1080p30, 1080p50, 1080p60 options available. When the Frame Rate Mode is Decimal, there are 1080i59.94, 1080p23.97, 1080p29.97, 1080p59.94 options available. The default format is 1080p60.

AVMATRIX	Interfaces	AUX Sel	MULTIVIEW	1000:50
	Format	Mode	Integer	1080i50
🖻 Transitions				1080i60
		AUX Format	1080p60	1080p24
🏝 Upstreamkey		Color Space	RGB Full	1080p25
🛓 Downstreamkey		Brightness	50	1080p30
Multiview		Contrast	50	1080p50
🕩 Output		Saturation	50	1080p60
Record Stream	FTB	FTB/MUTE Speed	d 0.5s	
○ PTZ		FTB With MUTE		
📽 System	Encode	Bitrate	8Mbps	

#### 11.2.2. Output Color Space

The output color space can be set to YUV, RGB Full, or RGB Limited. The default color space for output is YUV.

	Interfaces	AUX Sel	MULTIVIEW	RGB Full
	Format	Mode	Integer	RGB Limited
🖻 Transitions		AUX Format	1080p60	YUV
🏝 Upstreamkey		Color Space	RGB Full	
🛓 Downstreamkey		Brightness	50	
Multiview		Contrast	50	
🕩 Output		Saturation	50	

#### 11.2.3. Output Image Settings

Adjust the output's brightness, contrast, and saturation in the menu. The setting range is from 0% to 100%. The default setting is 50%.

<b>⊥</b> Upstreamkey	Color Space	RGB Full	
📥 Downstreamkey	Brightness	50	50
Multiview	Contrast	50	
🕩 Output	Saturation	50	

# 11.3. FTB

The FTB (Fade to Black) feature is designed for emergency situations during events. Pressing the FTB button will fade the PGM output to a black screen, concealing all other layers. The FTB button will continue to flash until the user presses it again to stop the FTB.

Note: If the PGM window displays a persistent black screen even after transitioning, check if the FTB button is flashing.



(1) FTB and Mute Speed Adjustment

The speed of FTB / MUTE can be adjusted from 0-3s in the menu. The speed is the time of whole transition for FTB and MUTE. For example, if the speed set to 2.5s the PGM video will be fading to black with audio becoming mute gradually in 2.5s.

#### (2) FTB with MUTE

Combining FTB and Mute is possible. Activate the FTB with Mute function from the menu, and the PGM will fade to black and mute simultaneously.

# 11.4. STILL

The video switcher supports the STILL function, allowing users to freeze input sources. Press the channel you want to freeze in the PGM or PVW row, then press the STILL button to freeze the input source. Multiple inputs can be frozen simultaneously. To unfreeze, press the input channel and STILL once more.

# 12. AUDIO SETTINGS

Press the AUDIO button on the panel to access the audio menu. The status page displays all audio states, and each multiview window features an audio graph for monitoring all audio states. Use the 3D joystick to select and adjust parameters and press the rotary knob to confirm the settings.

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### 12.1. Master Audio

Master audio is an audio control for PGM output. It can be either mixed audio or AFV audio. User can turn on/off the master audio or adjust audio volume.

### 12.2. Audio Volume

User can independently adjust the audio volume for each audio including the master audio, earphone, MIC 1, MIC 2, as well as the 6 embedded input audios from SDI1, SDI2, SDI3, SDI, HDMI5 and HDMI6.



#### 12.3. Audio On (MIX)

There is total 8 audios as the audio sources which can be mixed to PGM out, including 4SDI and 2 HDMI embedded audios and 2 MIC audio inputs. User can independently turn on/off each audio of SDI1, SDI2, SDI3, SDI, HDMI5, HDMI6, MIC1 and MIC2. When an audio turns on, the audio will be automatically mixed into the PGM output.

$\otimes$	Audio off;
ON	Audio on, AFV off;

# 12.4. AFV (Audio-Follow-Video)

Each channel of the 4 SDI and 2 HDMI embedded audios can be set to AFV. When one HDMI audio is set

to AFV mode, it will only be turned on when the PGM output switches to that channel's video source. For example, if SDI 1 audio is set to AFV mode, the SDI 1 embedded audio will be turn on when the switcher switches SDI 1 as the video source of PGM.

AFV	Audio on, AFV on & activated;
AFV	Audio on, AFV on & nonactivated;

# 12.5. Audio Delay

The menu provides an audio delay setting for SDI1, SDI2, SDI3, SDI4, HDMI 5, HDMI 6, MIC 1 and MIC 2. User can adjust the audio delay to to achieve synchronization between audio and video. Each level of the audio delay setting corresponds to 5ms. The audio can be delayed by a maximum of 500ms.



### 12.6. MIC

The switcher has two MIC inputs that user can connect it with a line-level or a microphone device, and turn on/off, adjust the audio volume and delay level.

### 12.7. Earphone

The switcher provides an earphone output for monitoring individual audio sources. User can select an audio source for the Earphone from Master audio, 4 SDI and 2 HDMI embedded audios, or 2 MIC audios. Users can turn on/off the Earphone or adjust audio volume.

# 13. STREAM & RECORD

### 13.1. Streaming

The switcher supports two live streaming methods: USB output and Ethernet port output. Users can choose the desired stream mode in the stream settings.

The USB Type-C port enables video capture to a computer and live streaming through software like OBS or PotPlayer. The LAN port facilitates direct live streaming to platforms using an IP address. The maximum bitrate for streaming is 32Mbps. It can live stream to 3 platform at the same time.

	Stream	Mode	LAN Stream	LAN Stream
		Stream	OFF	USB Capture
🔁 Transitions		Platform1	OFF	
🏝 Upstreamkey		Platform2	OFF	
🕹 Downstreamkey		Platform3	OFF	
Multiview	Record	Record Format	TS	
🕩 Output		Overwrite	OFF	
Record Stream		Storage	SD	
💿 PTZ		Format	SD	
📽 System	Search	VISCA-IP	$\diamond$	

#### Network Push Streaming:

Step 1: Adjust the Bitrate, Rate Control, Encoding, Resolution, and FPS of the live video in the video settings according to network conditions. For instance, if the network speed is slow, switch the Bitrate Control from CBR to VBR and adjust the Bitrate accordingly. These settings can also be modified through the web page.

After the finish the configuration, select the stream mode "LAN Stream", and we can enable the stream from the menu or Stream button on the switcher's control panel.

Encod	Bitrate	8mbps	
	B	100	2mbps
	Rate Control	VBR	4mbps
	Video Encoding	H.264 High	8mbps
	Resolution	1920x1080	12mbps
	FPS	60	16mbps
	I-Frame Interval	30	24mbps
			32mbps
	Sampling Rate	48kHz	
	Audio Bitrate	256kbps	

Step 2: Access the live streaming settings of the stream platform and obtain and copy the Stream URL and streaming key.

Stream key			
Select stream key Default stream key (RTMP, Variable)			
Stream key (paste in encoder)	ø	RESET	СОРҮ
Stream URL  rtmp://a.rtmp.youtube.com/live2			СОРУ
Backup server URL Trmp://b.rtmp.youtube.com/live2?t	oackup=1		СОРУ
YouTube also supports RTMPS for secure connectio	ns. Learn m	iore	9 ×

Step 3: Access the switcher's web page by entering its IP address (192.168.1.216) into a web browser and login the account (Name: admin, Password: admin). Select "Stream settings" section, paste the Stream URL and streaming key into the designated fields. Enable the "Start" option and click "Save&Apply" to initiate the live stream. Navigate to the live streaming platform to view the broadcast. Users can also customize the main stream and sub-stream names as desired.

#### HDMI/SDI VIDEO SWITCHER

# Shark S6

Device Status					
Control Panel	Push Stream				■ Start Streaming
Audio Settings	Stream Media	Status	Custom Name	Address	Action
Encode Settings	RTMP	Runing	MainRTMPRemote	rtmp://a.rtmp.youtube.com/live2/sdf/haiuefhaw	On 🔵 🖉
Stream Settings     Record Settings	RTMP	Stop	SubRTMPRemote	rtmp://192.168.1.7:1935/live/av1	Off)
System Settings	RTMP	Stop	ThirdRTMPRemote	rtmp://192.168.1.8:1935/live/av2	() () () () () () () () () () () () () (
	SRT	Stop	MainSrtRemote	192.168.1.216	Off 2
Edit RTMP stream					
* Custom Name:	MainRTM	PRemote			
* URL:	rtmp://a.r	tmp.youtu	be.com/live2,	/sdfyhaiuefhaw	
				No	

Once the streaming status in the Multiview status page turns green, the live streaming starts, and streaming time starts to count. You can stream to three different platforms at the same time.

RECORD	STREAM	2023-10-27
00:00:00	④ 00:00:00	16:36:21
SD :55.7/57.9G	② 00:00:00	TEMP <b>.:</b> 58℃
USB :/	③ 00:00:00	192.168.1.216

#### Local Pull Streaming:

Access the switcher's web page by entering its IP address (192.168.1.216) into a web browser and login the account (Name: admin, Password: admin). Select "Stream settings" section, and obtain and copy the local address URL for pull streaming. Open a video player app like OBS, PotPlayer or Vmix and paste the local address URL into the designated field to initiate the local streaming.

#### HDMI/SDI VIDEO SWITCHER

Push Strea	n			Start Strea
s Stream M	edia Status	Custom Name	Address	Action
gs				
gs RTMP	Runing	MainRTMPRemote	rtmp://a.rtmp.youtube.com/live2/sdfyhaiuefhaw	Cn 🔵 🖉
gs RTMP	Stop	SubRTMPRemote	rtmp://192.168.1.7:1935/live/av1	(HO)
gs RTMP	Stop	ThirdRTMPRemote	rtmp://192.168.1.8:1935/live/av2	O off
SRT	Stop	MainSrtRemote	192.168.1.216	<b>O</b> OH <b>2</b>
Pull Stream				
Stream M	edia Status	Custom Name	Address	Action
RTSP	Runing	MainRTSPLocal	rtsp://192.168.1.216:5554/live/av	(On ()
RTMP	Runing	MainRTMPLocal	rtmp://192.168.1.216:1935/live/av	On O

#### Using OBS as an example

③ OBS Studio 29.0.2 (64-bit, windows) - Profile: 未命名 - Scenes: 未給	命名	- 🗆 ×		
File Edit View Docks Profile Scene Collection Tools H			A	~
Preview: 场景	Program: 场景		Create/Select Source	$\times$
			1000	
			O Create new	
	Transition		Media Source	
II Application Audio C	Capture (BETA) fransitions			
🖢 Audio Input Captur	re		Add Existing	
(I) Audio Output Capt				
( Browser				
Color Source				
Display Capture				
🕶 Game Capture				
No source selected Pro				
Scenes So Media Source	Scene Transitions	🔁 Controls 🛛 🔂		
场展 Ⅲ Scene	0.0 dB Fade	C Start Streaming	8	
ab Text (GDI+)	0 .4s .40 .4s .40 .4s .40 .5 .6 	Cara Davastra		
Video Capture Devi	ice + 🗉 :	Start Recording		
Clic 🖬 Window Capture		Start Virtual Camera	Make source visible	i
r rigi 🔁 Group		Studio Mode		
Deprecated	•	Settings		OK Cancel
	e :	Exit		
	(#) LIVE: 00:00:00 Ø REC: 00:00:	:00 CPU: 25.8%, 30.00 fps	-60 -55 -50 -45 -40 -35 -30 -	25 -20 -15 -10 -5 0

Step1: Open OBS Studio. Click the "+" icon in the "Sources" section and select "Media Source" to add a new media source."

Step 2: Disable the local file setting, paste the "local address URL" into the "Input" field, and click "OK" to complete the local streaming setup.

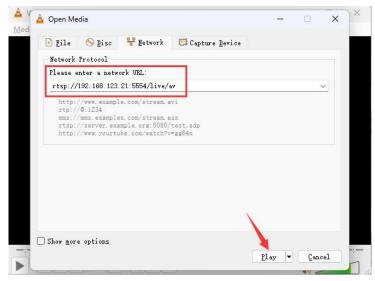
Properties for 'Media Source'	×
Local File     Restart playback when source becomes active     Network Buffering	2МВ 🗘
Input rtsp://192.168.123.21:5554/live/av	
Input Format	
Reconnect Delay	1050
Use hardware decoding when available Defaults	OK Cancel

How to Play the RTSP Stream Using VLC Player:

Step 1: Open VLC Player, and click the "Media" section and select "Open Network Stream".

4	VLC media player					-		×
Me	dia Playback Audio Video	Subtitle	Tools	View	Help			
	Open File	Ctrl+0	D					
Þ	Open Multiple Files	Ctrl+S	Shift+O					
	Open Folder	Ctrl+F	F					
•	Open Disc	Ctrl+[	D					
+	Open Network Stream	Ctrl+1	N					
1	Open Capture Device	Ctrl+0	0					
	Open Location from clipboard	Ctrl+\	V					
	Open Recent Media		•					
	Save Playlist to File	Ctrl+	1					
	Convert / Save	Ctrl+F	R					
((-3)	Stream	Ctrl+S	S					
	Quit at the end of playlist							
÷	Quit	Ctrl+(	Q					
-:	- (							-:-
►		SX				(۱)	100%	1.

Step 2: Enter the RTSP address of the stream in the "Network" section of the pop-up window.



# 13.2. Recording

The switcher offers two recording methods: via USB disk or SD card. Insert the desired storage device and select it in the recording settings. Press the REC button on the panel to initiate recording. The recording status will display device information. Users can also choose between MP4 and TS recording formats in the settings.

	Platform2	OFF	SD
	Platform3	OFF	USB
Record	Record Format	TS	
	Overwrite	OFF	
	Storage	SD	

Shark S6			HDMI/SDI VIDEO SWITCHER
Storage Settings			
Off Overwrite Mode		Save	
Record Format	Split Recording File		
TS	<ul> <li>✓ 60 mins</li> </ul>	~	
Record Storage			

When recording starts, the recording indicator light on the status page turns red, and the recording time begins counting in the multiview. To stop recording, press the REC button again. The recording status displays the recording time, SD card/USB disk status, and the selected storage device turns red for easy identification.

RECORD	STREAM	2023-10-27
00:00:05	① 00:00:00	16:37:04
SD :55.7/57.9G	② 00:00:00	TEMP <b>.:</b> 59℃
USB :/	③ 00:00:00	192.168.1.216

#### **Formatting Storage Devices**

Users can format their USB disk or SD card through the menu. In the recording menu, select either "Format USB" or "Format SD card" to begin formatting the respective storage device. The default formatted file system is exFAT. Formatting will permanently erase all data on the disk, so please back up important data beforehand.

#### **Overwrite Function**

The switcher's recording feature has an optional overwrite function. When the SD card or USB disk memory is full, the overwrite function automatically deletes and overwrites previously recorded content with the new recording. Users can enable or disable the overwrite function in the menu.

# 14. PTZ CONTROL

The video switcher has a feature that control PTZ cameras through LAN port or serial port. Utilize the joystick and buttons to pan, tilt, or zoom individual cameras. Protocols supports: VISCA, VISCA over IP, Pelco D/P, and Onvif..

For LAN port connection, ensure DHCP is enabled, and so we put them on the same LAN. Search the camera through VISCA-IP or ONVIF from menu, and then we can add the camera we searched into a camera ID. If the working environment doesn't have DHCP for network, we can change the IP address of the switcher from menu to set them in a same LAN, so that the switcher can search the camera successfully.

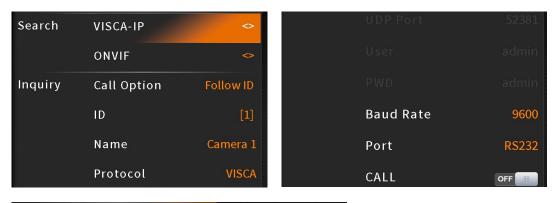
Access the PTZ menu using the joystick knob, search for the camera, select the camera to be connected, and customize the camera ID if desired. And select the corresponding protocol from the menu that there are VISCA-IP and Onvif available for network connection. Last, toggle the connection switch to establish the connection.

There are 3 ways we can call the camera we want to control:

- Set the call option to Follow PGM, which means the controlled camera is same to the selected PGM channels from Camera 1-6. For example, when the PGM is selected the Camera 2 (IN 2), then the Camera 2 is under control.
- Set the call option to Follow PVW, which means the controlled camera is same to the selected PGM channels from Camera 1-6. For example, when the PVW is selected the Camera 2 (IN 2), then the Camera 2 is under control.
- 3. If set the call option to Camera ID, then we can set the ID option from camera 1-6.

For connection through serial port, select the corresponding protocols from VISCA, PELCO-D, PELCO-P, and camera ID, and baud rate, serial port type settings. Subsequently, enable the connection switch to establish the connection.

Once the camera is connected, employ the 3D joystick to control camera movement. The zoom function can be operated using the zoom + or zoom - buttons on the panel. We also can adjust the Pan/Tilt/Zoom speed in the PTZ menu as needed.





# **15. SYSTEM SETTINGS**

# 15.1. Language

Switch between English and Chinese by accessing the system settings menu.

# 15.2. Fan Settings

Control the switcher's temperature and noise by adjusting the cooling fan speed. The speed can be set from 0% to 100% that when it is 0% the fan off, when it is 100% the fan is in AUTO mode.

In AUTO mode, the fan speed automatically adjusts based on the switcher's operating temperature. For applications requiring silent operation, the fan can be manually turned off via the menu.

If the operating temperature reaches 57°C, a warning message will appear in orange at the bottom of the Status/Menu page. At 60°C, the fan will automatically switch to high speed to quickly cool the CPU and return to AUTO mode simultaneously.

# 15.3. ROC Correction

When the joystick needs to be calibrated, can access from the menu to celebrate the joystick for a correct PTZ control. During the calibration there is a notice that "The joystick is being calibrated. Pease do not touch until the calibration is complete."

### 15.4. System Reset

Reset Preferences: Restore settings to default values, except for Media library, Time, Network, Language, Fan and User Setting.

Factory Reset: Restore all settings to factory defaults.

### 15.5. Version

Check the switcher's Software Version, FPGA Version, SYS Version, PCB Version, HDMI Version and Key.

# 15.6. Time Settings

#### 15.6.1. Manual Time Setting

Set Year/ Month/ Day/ Hour/ Minute directly through the Menu. Choose between 12h and 24h time formats. The default setting is 12h.



#### 15.6.2. Time Synchronization

Connect the video switcher to a window PC via LAN cable. Open a web browser and locate the switcher's web control page. On the web page, select the time setting, which can be synchronized automatically or set manually.

### 15.7. Network Settings

The video switcher supports two methods for acquiring an IP address: Dynamic (DHCP-assigned IP) and Static (user-configured IP). Choose the desired method from the menu. The default setting is Dynamic.

**Dynamic (DHCP):** Connect the video switcher to a DHCP-enabled router, and it will automatically obtain an IP address. Ensure the video switcher and PC are on the same local area network.

**Static (Manual IP Configuration):** Select the Static IP acquisition method when the network lacks DHCP functionality. Connect the video switcher to a PC via a network cable. Configure the PC's IP address to be within the same subnet as the video switcher's (default IP: 192.168.1.216) or vice versa.

Network	DHCP		Network	DHCP	OFF
		0.0.0.0		IP Address	192.168.1.216
		0.0.0.0		Mask	255.255.255.0
		0.0.0.0		Gateway	192.168.1.1

### 15.8. Customize Shortcut Keys

In the system menu, you can customize the shortcut keys for PIP1, PIP2, POP, chroma key, DSK, and LOGO buttons. For instance, assigning the PIP1 key to "PGM" will activate PIP1 directly on the PGM output when pressed. Similarly, setting PIP1 to "PVW" will activate it on the PVW output. Alternatively, assigning PIP1 to "MENU" will display a shortcut selection menu, allowing users to choose whether to apply the effect to PGM or PVW.

			PVW
		UNCLUME .	PGM
Key	PIP1 Key	MENU	MENU
	PIP2 Key	MENU	
	РОР Кеу	MENU	
	CHROMA Key	MENU	
	DSK Key	MENU	
	LOGO Key	MENU	

# 15.9. User Settings

The video switcher allows users to save current settings into accounts. Manage user accounts by adding new ones, renaming existing ones, switching between accounts, and deleting unnecessary ones.

AVMATRIX		РОР Кеу	MENU
		CHROMA Key	MENU
🖻 Transitions		DSK Key	MENU
🏝 Upstreamkey		LOGO Key	MENU
🛓 Downstreamkey	Users	Switch	user0
Multiview		New	Enter
➡ Output		Rename	user0
Record Stream		Delete	user0
o PTZ		Import	Enter
📽 System		Export	Enter

#### 15.9.1. New

Create a new user account and save all current settings to it. Enter the account name using the virtual keyboard provided in the menu.

#### 15.9.2. Rename

Modify the name of the currently selected user account.

#### 15.9.3. Delete

Delete a saved user account which is no loner needed.

#### 15.9.4. Import

Import the current user account and its settings from a USB flash disk.

#### 15.9.5. Export

Export the slected user account and its settings to a USB flash disk for backup or transfer.

# 16. WEB CONTROL INTERFACE

Setup the switcher referring to Part 14.6. Network Settings. Access the switcher's web page by entering its IP address (192.168.1.216) into a web browser and login the account (Name: admin, Password: admin). All the settings can be configurated from the sections of Device Status, Control Panel, Audio Settings, Encode Settings, Stream Settings, Record Settings, System Settings.

#### **Device Status:**

AVMATRIX®	E 6CH SWITCHER						English V Logout
Device Status     Control Panel				Network Speed(Mb/s)			
Audio Settings							
Encode Settings						1-1	
Stream Settings				And Aland	MMMM	NA-AMA-A	N N~N NN V
Record Settings							
System Settings							
	Preview		Play				0.863 Mb/s
	Stream Status			Hardware Status			
	00:00:00 MainRTMPRemote	O0:00:00 SubRIMPRemote Stream	O0:00;00 ThirdRTMPRemote	36.27% RAM	38% CPU		72°C TEMP.
	Record Status			Video Input	Output Mode	Audio Input	Runtime
	00:00:00 SD: No Disk Record		D0:00:00 USE: No Disk (Record	FPGA 1920x1080@60P	LAN 1920*1080P60	FPGA 24Bits/48kHz	00:41:00

#### **Control Panel:**

AVMATRIX®	GCH SWITCHER	English V Logout
Device Status		ETB > Upstream Key
Control Panel	USK DSK	
国 Audio Settings	PIP1 PIP2 POP CHROMA DSK LC	OGO         FTB         0.5 s         MUTE         > Transition
国 Encode Settings		
	ON ON ON ON ON ON ON AIR AIR AIR AIR AIR	AR > Multiview
Record Settings		> Output
System Settings	PMG	
	1 2 3 4 5 6	
	BAR	
	PVW	Transition
	1 2 3 4 5 6 BAR	MIX DIP WIPE CUT AUTO 0.5 s

#### HDMI/SDI VIDEO SWITCHER

# Audio Settings:



#### **Encode Settings:**

AVMATRIX <sup>®</sup>	GCH SWITCHER			English V Logout
Device Status				
Control Panel	Encode Output			
I Audio Settings	LAN Stream USB Capture			
Encode Settings				
Stream Settings	Video Encode			Save
Record Settings	Stream Type On O Stream Switch	Video Source	Resolution	FPS
System Settings	Main Stream		1920*1080	60 V
	Coding Format	I Frame Interval	Bitrate Mode	Max Bitrate
	H.264 High Profile	30	VBR	8192Kbps V
	Audio Encode			Save
	Audio Source	Coding Format	Sampling Rate	Bit Width
	Master	AAC V	48KHz ~	24bit V
	Sound Channel	Bitrate	Volume	100
	L+R v	256Kbps V		0

#### HDMI/SDI VIDEO SWITCHER

#### **Stream Settings:**

AVMATRIX®	GCH SWITCHER					English ¥	Logout
O Device Status							
Control Panel	Push Stream					Start Str	eaming
Audio Settings	Stream Media	Status	Custom Name	Address	Action		
<ul> <li>Encode Settings</li> <li>Stream Settings</li> </ul>	RTMP	Stop	MainRTMPRemote	rtmp://live-push.bilivideo.com/live-bvc/?streamname=live_1636010410_210529668kkey=66d9829a56cbe5c6b47b22a32ae59788uchedul e=rtmp&pflag=1	O off	٤	
Record Settings	RTMP	Stop	SubRTMPRemote	rtmp://192.168.1.7:1935/live/av1	Off	2	
System Settings	RTMP	Stop	ThirdRTMPRemote	rtmp://192.168.1.8:1935/live/av2	Off	2	
	SRT	Stop	MainSrtRemote	192.168.123.21	Off	2	
	Pull Stream						
	Stream Media	Status	Custom Name	Address		Action	
	RTSP	Runing	MainRTSPLocal	rtsp://192.168.123.21:5554/live/av		On	
	RTMP	Runing	MainRTMPLocal	rtmp://192.168.123.21:1935/live/av		On	

#### **Record Settings:**

AVMATRIX®	GCH SWITCHER					English	V Logout
<ul> <li>Device Status</li> <li>Control Panel</li> </ul>	Disk Management				Storage Settings		
国 Audio Settings 国 Encode Settings					Overwrite Mode	Split Recording File	Save
		D Card		JSB Disk	TS Record Storage	60 mins	
<ul> <li>Record Settings</li> <li>System Settings</li> </ul>	R	۶ W:		& W:	SD Card	USB Disk	
	Free: 0G	Total: 0G	Free: 0G	Total: 0G			
	Refresh	Format	Refresh	Format			
	Attention: Do you want to format this disk	to EXFAT? Formatting will erase all	data on the disk and cannot be reco	vered. Please back up important	data before proceeding.		

### System Settings:

AVMATRIX®	E 6CH SWITCHER			English × Logout
② Device Status	Device Info. System Maintenance Network Sett	ings Time Settings Password Settings		
⊞ Control Panel	Device into: System maintenance retwork set	ings inne settings Password settings		
国 Audio Settings	Device Name	Device No.	Mac Address	IP Address
国 Encode Settings	6CH_SWITCHER	86f2b312f3fd28a9	3c:6a:2c:d3:67:45	192.168.123.21
Stream Settings	Hardware Ver.	Device Ver.	FPGA Ver.	Authorization Status
Record Settings	VS0605E-PRO_V3.2-20230616	V1.0.1.28	V1.0.10	Authorized
System Settings				
AVMATRIX®	GCH SWITCHER			English 🗠 Logout
Ø Device Status	Device Info. System Maintenance Network Settin	gs Time Settings Password Settings		
留 Control Panel	System Maintenance	ga nine settinga nasaword settinga		
🔳 Audio Settings	Upgrade	Import Settings		
圜 Encode Settings			Export Settings	Reset
Stream Settings	上 Upload Upgrade	L Upload Import	Export Log	Reboot
Record Settings				
System Settings				

#### HDMI/SDI VIDEO SWITCHER

AVMATRIX®	E 6CH SWITCHER		English ~ Logout
② Device Status	Device Info. System Maintenance Network Settings Time Settin		
Control Panel	Device into, System Maintenance Network Sectings Time Secting	gs Password Settings	
回 Audio Settings	On DHCP		
Encode Settings	IP Address	Sub Mask	GateWay
Stream Settings			
Record Settings	DNS 1 218.85.152.99	DNS 2	
System Settings			Save
<b>AVM</b> ATRIX <sup>®</sup>	E 6CH SWITCHER		English Y Logout
② Device Status	Device Info. System Maintenance Network Settings Time Settin	Password Settings	
Control Panel	Device into. System Maintenance Network Settings	Password Settings	
置 Audio Settings	Off Summer Time Auto-sync Time Manual Settings		
囯 Encode Settings	Time Zone	Manual Setting	
ං Stream Settings	(UTC+08:00) Beijing, Chongqing, Hong Kong, Urumqi 🗸 🗸	请选择日期 首 Off Local Sync	
Record Settings	NTP Server Sync Interval(Min)	Devices Time	
System Settings	pool.ntp.org 60	2023-12-06 16:52:13 📋 Save	
AVMATRIX®	這 6CH SWITCHER		English ~ Logout
② Device Status			
器 Control Panel	Device Info. System Maintenance Network Settings Time Settin	ps Password Settings	
圖 Audio Settings	Old Password		
圖 Encode Settings	ø		
Stream Settings	New Password		
Record Settings	ø		
System Settings	Confirm Password	Save	
	Note: Please enter 3-16 characters, supporting uppercase and lowercase letters, number	rs, hyphens, and underscores.	