AVMATRIX®

IP & SERIAL
PTZ CAMERA JOYSTICK CONTROLLER

CAMERA CONTROL PROTOCOL

The PKC3000 has a variety of control interfaces including IP, RS-422/ RS-485/ RS-232. The rich control interface makes it easy to match camera connections of different interfaces. It offers cross protocol mix-control on one controller operating Protocol by VISCA, VISCA Over IP, and Pelco P&D, as well as ONVIF. Control multiple different PTZ camera brands simultaneously, including AVMATRIX, HuddleCamHD, PTZOptics, Sony, BirdDog, and NewTek.

PKC3000

The controller offers the ability to control iris, focus, white balance, exposure, and on-the-fly speed control to control the finer camera settings on the PTZ cameras.

POWER SWITCH

DC 12V IN

GPIO
For TALLY 1~7

RS-232
PELCO-D, PELCO-P, VISCA

RS-422/485
PELCO-D, PELCO-P, VISCA

IP
ONVIF, VISCA Over IP

- Cross protocol mix-control with IP/ RS-422/ RS-485/ RS-232
- Control protocol by VISCA, VISCA-Over-IP, Onvif and Pelco P&D
- Control up to total of 255 IP cameras on a single network
- 6 camera quick call up keys, and 6 user-assignable keys to quickly invoke shortcut functions
- Quick control of exposure, shutter speed, iris, compensation, white balance, focus, pan/tilt speed, zoom speed
- Tactile feel with professional rocker/seesaw switch for zoom control
- Automatically search available IP cameras in a network and assign IP addresses easily
- Multi-color key illumination indicator directs operation to specific functions
- Tally GPIO output for indicating the camera be currently controlled
- Metal housing with 2.2 inch LCD display, 4D joystick, 5 rotation button
- Supports both POE and 12V DC power supplies

IP Control

IP control is a very intelligent and convenient control mode. With IP control, automatically search available IP cameras in the network and assign IP addresses easily. IP control supports ONVIF, Visca Over IP.
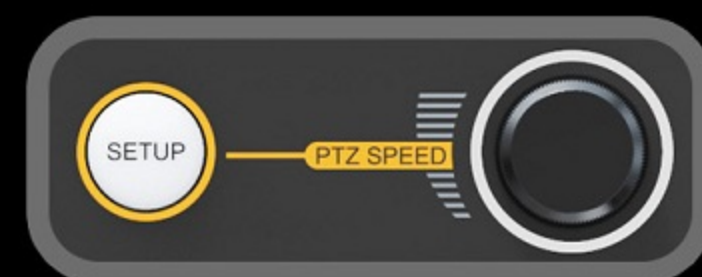
RS-232/485/422 Control

RS-232, RS-422, and RS-485 communication support protocol such as PELCO-D, PELCO-P, VISCA. Any device on the RS485 bus can be individually configured with different protocols and baud rates.
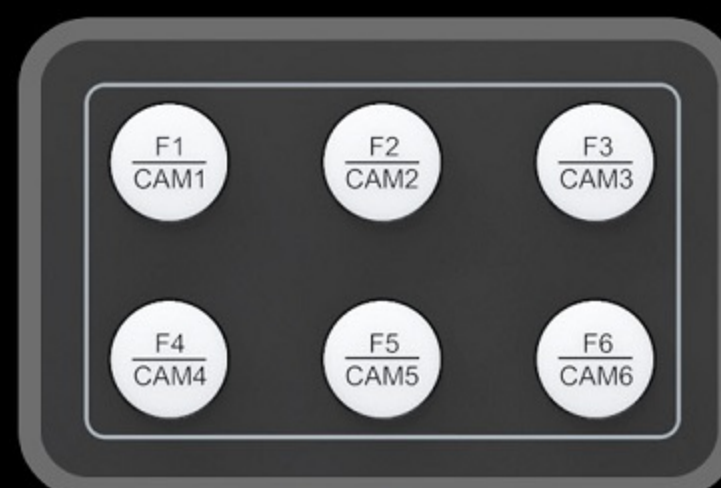
Camera Quick Access Control

The controller offers the ability to control iris, auto exposure, white balance, and focus control to control the finer camera settings on the PTZ cameras.

Menu Knob

Use for pan/tilt speed, and zoom speed control and PTZ camera own menu settings.

6 Camera Call Up & User-assignable keys

It can store up to 6 user-assignable keys, the default is quick call up for camera 1~6, and you can also set your own functions according to customer requirements.
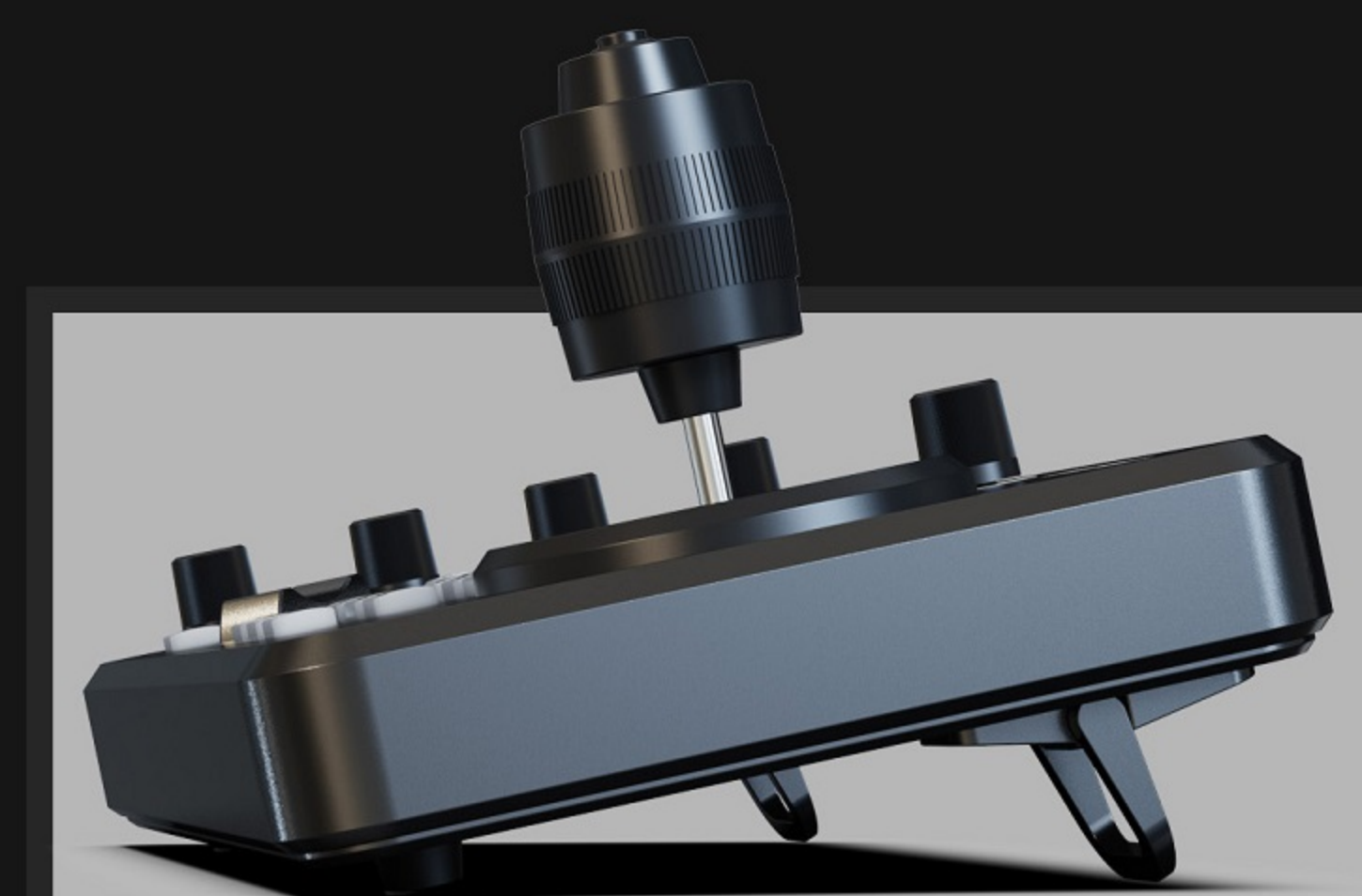
Power-over-Ethernet (PoE) & DC Power supply

Control up to total of 255 IP cameras on a single network with PoE support. You can use not only traditional DC power supply but also POE power supply to set up in various locations.

4D Joystick & Rocker

High-quality 4D joystick enables you to control the speed of your pan, tilt, zoom, and lock moves. Tactile feel with professional rocker/ seesaw switch for zoom control.

Camera & Position Setting

Automatically search available IP cameras in a network and assign IP addresses easily. With a 2-inch color LCD screen, you can quickly set and wake up the camera's control protocol and rotation Angle.

Aluminum Alloy Body

Aluminum alloy anodized fuselage, upgrade the product grade, and ensure the heat dissipation and stability of equipment.
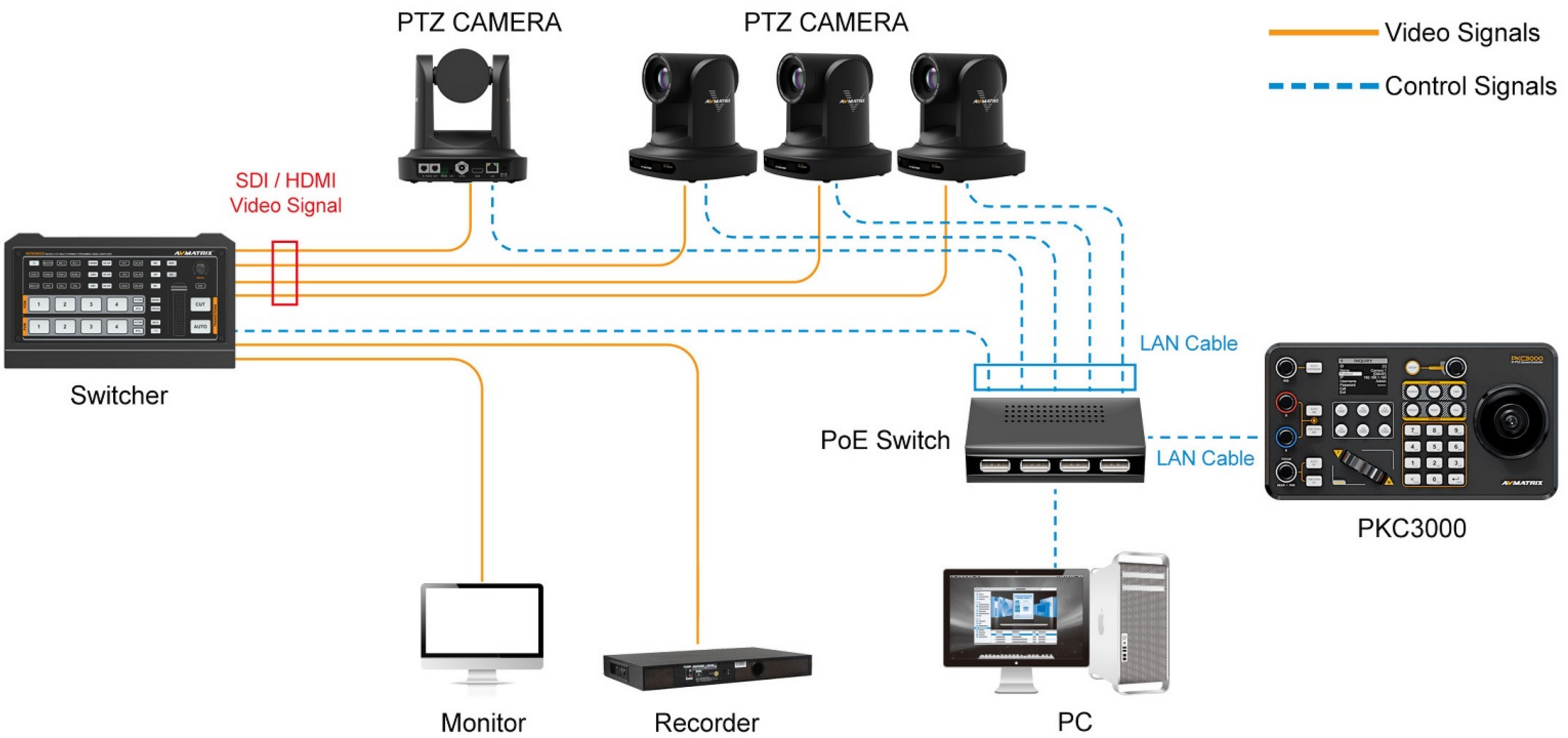
Bracket Design

Easy installation and flexible application. This controller designed with a detachable bracket design.

Connection Diagram

Adopt RS-232, RS-422, RS-485 and IP(RJ45) multiple interface control signal, up to 255 cameras can be connected. The following connection diagram shows how to control multiple cameras through IP through the PTZ controller.

PTZ CAMERA   PTZ CAMERA

Video Signals
Control Signals

SDI / HDMI Video Signal

Switcher

LAN Cable

PoE Switch

LAN Cable

PKC3000

Monitor   Recorder   PC

Application Fields

The controller can be widely used in various field events, such as education, conference, interviews, concert, health care, churches and other live broadcast activities.
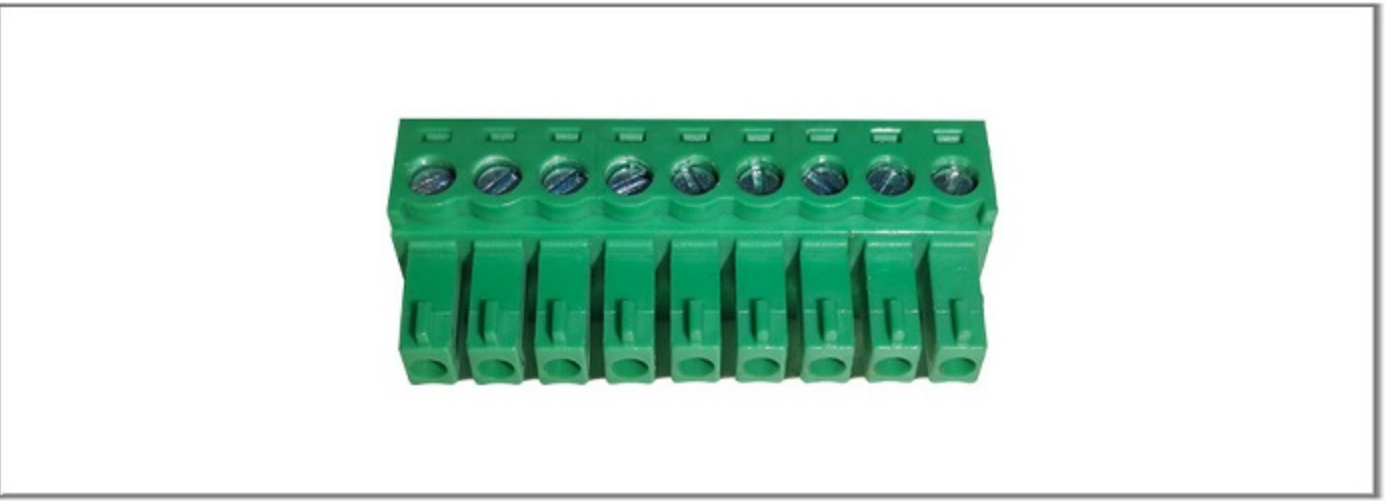

Education   Conference   Concert   Health care

Specifications

CONNECTIONS	Interfaces	IP(RJ45), RS-232, RS-485/RS-422
	Control Protocol	IP Protocol: ONVIF, VISCA Over IP
		Serial Protocol: PELCO-D, PELCO-P, VISCA
	Serial Baud Rate	2400, 4800, 9600, 19200, 38400 bps
USER INTERFACES	Display	2.2 inch LCD
	Joystick	4D joystick (Pan/Tilt/Zoom/Lock)
	Camera shortcut	6 channel
	Keyboard	User-assignable keys×6, Rotation button×5, Rocker×1, Seesaw×1
	Camera Address	Up to 255
	Preset	Up to 255
POWER	Power	PoE/ DC 12V
	Power Consumption	PoE: 5W, DC: 5W
ENVIRONMENT	Working Temperature	-20℃~60℃
	Storage Temperature	-40℃~80℃
DIMENSION	Dimension(LWD)	270mm×145mm×29.5mm/ 270mm×145mm×106.6mm(With joystick)
	Weight	1181g

145mm

270mm

29.5mm   106.6mm

ACCESSORIES

12V DC Power Adapter

9 PIN GPIO Connector