AVMATRIX®

TOUCH SCREEN
PTZ CAMERA CONTROLLER

Intuitive touch screen menu. Master multiple PTZ cameras.

Model NO.:
PKC4000
PKC4000-NDI

5 inch Touch Screen

POE Powered

Real-time Monitoring

Track Recording

NDI / VISCA / ONVIF Multiple Protocols

Up to 100 Cameras

5" Touch Screen Monitoring Camera in Real Time
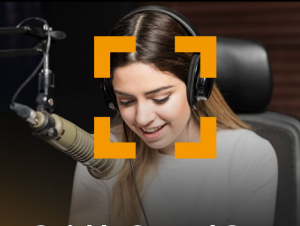
IP/ RS-422/ RS-485/ RS-232 Control

Control Protocol by NDI, VISCA, VISCA-IP Onvif and Pelco P&D

Track Recording and Playback

Quickly Control Camera

Control Up to 100 IP Cameras 255 Presets

POE Power Supply

Tally GPIO, Switch and Indicate The Camera

5 Inch Touch Screen
Camera Menu Control

The PTZ camera keyboard controller features a 5-inch touchscreen that enables direct on-screen configuration of common camera menu parameters as well as monitoring camera status in real time.

Real-time Preview of Your Camera
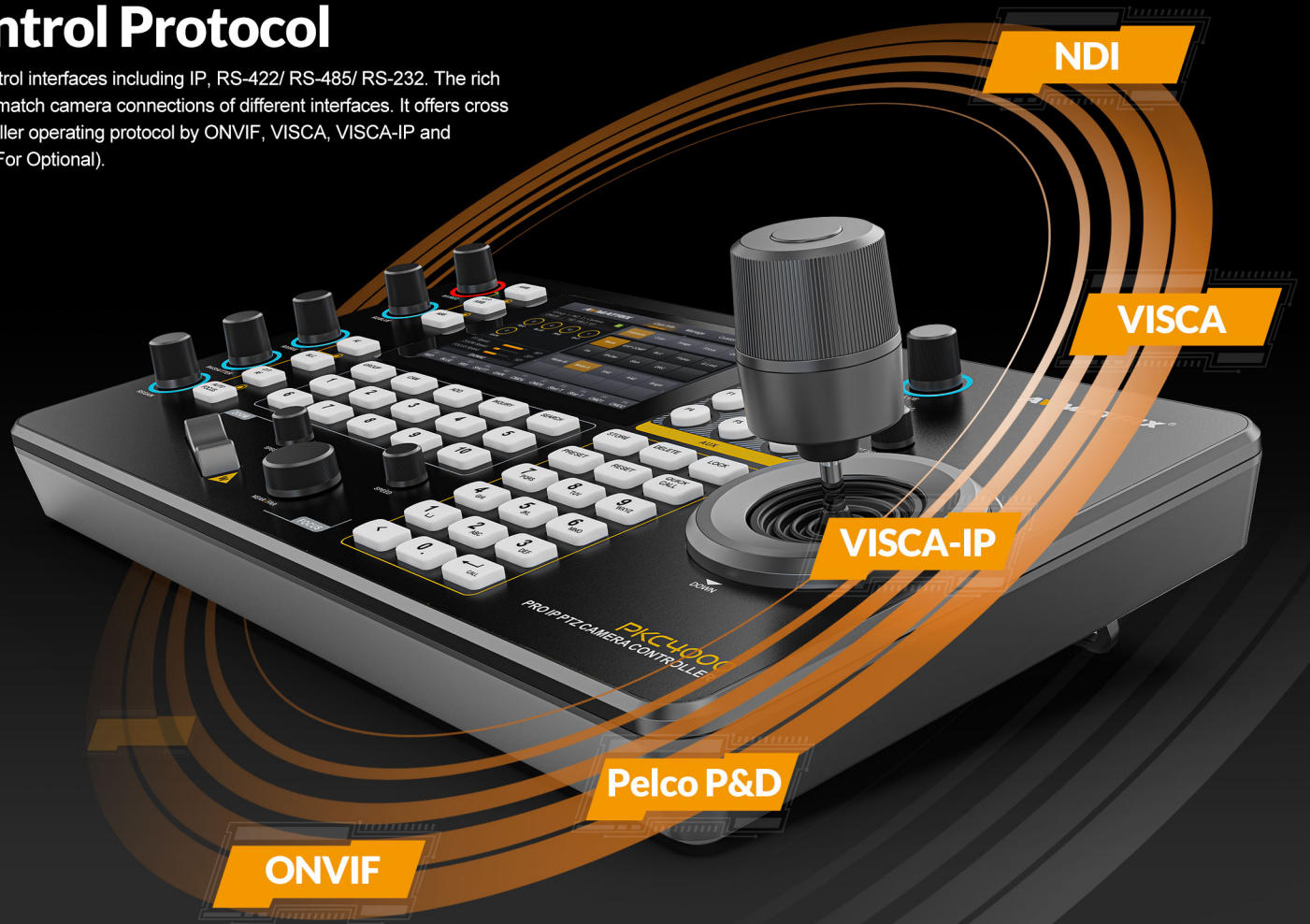
NDI   **RTSP**   **ONVIF**

The controller supports decoding under NDI, RTSP and ONVIF protocol which allows simultaneous real-time preview of the camera video streams on the 5-inch screen and adjust your control accordingly.

*NDI Version For Optional

Camera Control Protocol

The controller 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 ONVIF, VISCA, VISCA-IP and Pelco P&D, as well as NDI (*NDI For Optional).

NDI

VISCA

VISCA-IP

Pelco P&D

ONVIF

PRO IP PTZ CAMERA CONTROLLER

PKC1400C

Track Recording and Playback

Record camera path (pan, tilt, zoom)

Track Recording and Playback

The PTZ camera controller supports track loop function which allows you to record camera path (pan, tilt, zoom) and replay it whenever required without having to manually control the camera.

Sync Controller with Switcher
Via GPIO

Equipped with GPIO, the controller can seamlessly integrate with switchers and tally system, enabling synchronized camera and video selection and simplifying your operations.

5" Touch Screen

Touch for adjust the menu, and support monitoring camera in real time

Camera Setting

Quickly search, add and call up to 100 cameras divided into 10 camera groups.

Camera Quick Access Control

Quickly control camera's iris, shutter speed, gain, auto exposure, white balance, and black balance for optimal PTZ camera performance.

Focus and Zoom Adjust

Supports camera auto focus and manual focus, and can also adjust camera zoom and focus speed.

Menu Knob

Adjust the menu of the controller itself, and can also control the camera menu.

Assignable Functions & CAM PWR, OSD, PVW

It can store up to 6 user-assignable keys.
Other 3 shortcut keys used to control camera power, open the camera menu and preview the camera screen.

4D Joystick

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

Position Setting

Quickly set and wake up to 255 camera positions.

Multi-function Digital Panel

Used to assist input numbers, letters, etc.

AVMATRIX®

PKC4000
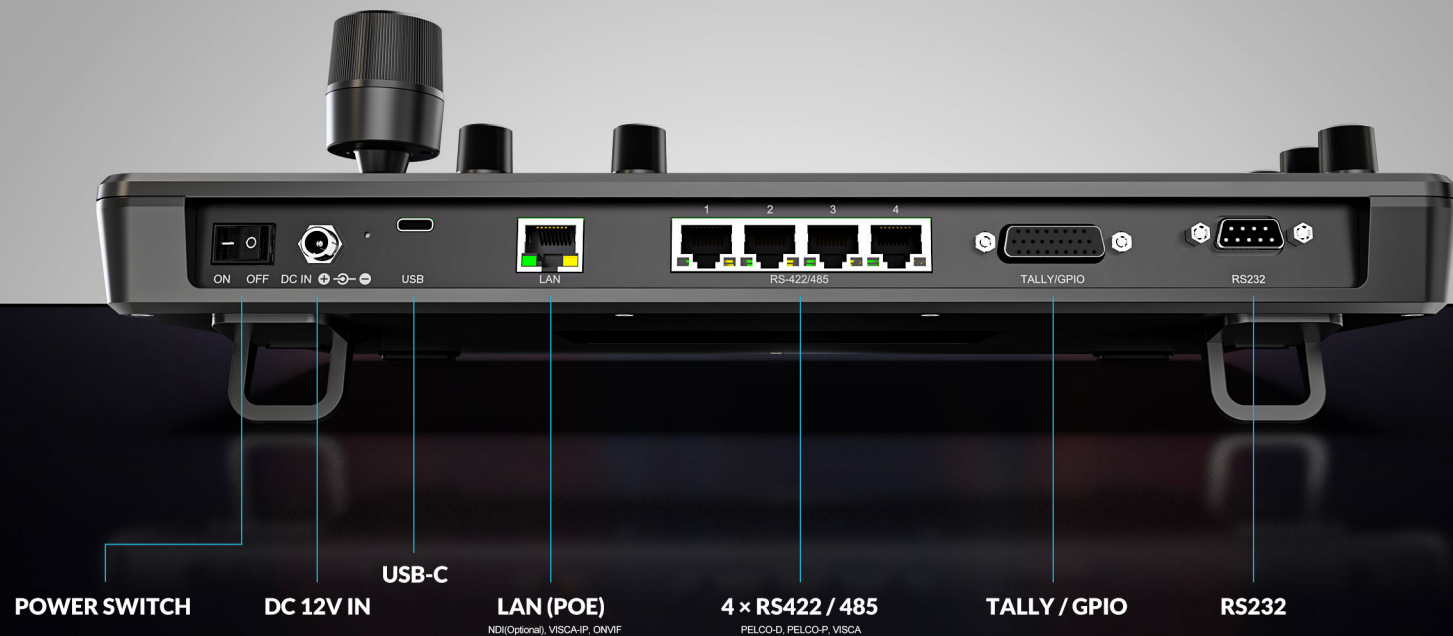PRO IP PTZ CAMERA CONTROLLER

Power-over-Ethernet (PoE)

Control up to total of 100 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.

1× RS-232 & 4 × RS-485 /422 Control Interfaces

RS-232, RS-422 and RS-485 communication support protocols such as PELCO-D, PELCO-P and VISCA,. Each serial port can connect up to 7 cameras under the Visca protocol.

IP Control Interface

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 NDI, ONVIF and Visca - IP. PKC4000 enables user to easily control up to 100 IP camera (10 groups, 10 cameras/ group).

ON   OFF   DC IN   USB   LAN   RS-422/485   TALLY/GPIO   RS232

POWER SWITCH

DC 12V IN

USB-C

LAN (POE)
NDI(Optional), VISCA-IP, ONVIF

4 × RS422 / 485
PELCO-D, PELCO-P, VISCA
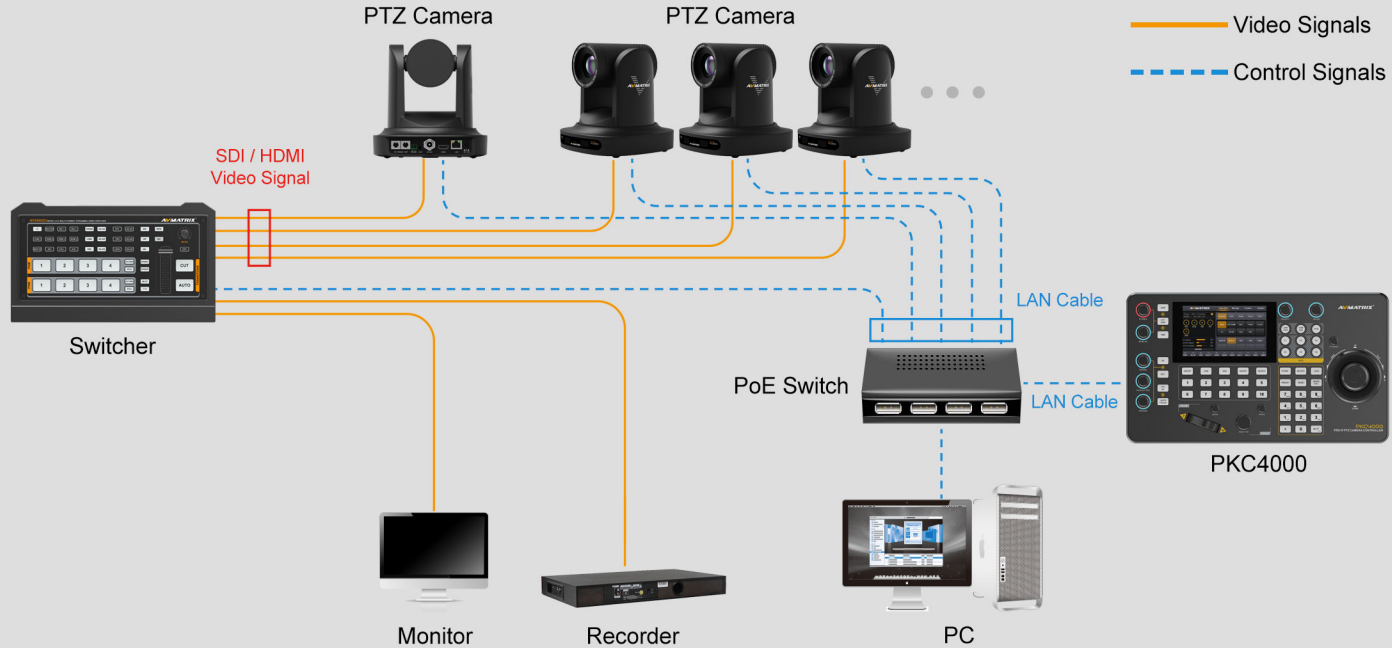
TALLY / GPIO

RS232

Ergonomic Bracket for Optimal Control

The controller is equipped with an ergonomically designed bracket that enhances your control experience and viewing angle of the screen.
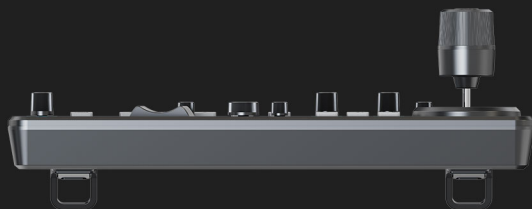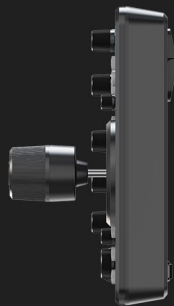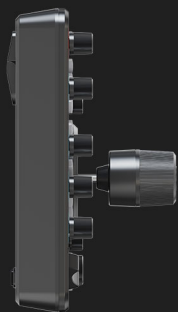
Connection Diagram

Adopt RS-232, RS-422, RS-485 and IP(RJ45) multiple interface control signal, up to 100 cameras can be connected. The following application workflow shows how to control multiple cameras through IP Interface through the PTZ controller

PTZ Camera

PTZ Camera

Video Signals

Control Signals

SDI / HDMI
Video Signal

Switcher

LAN Cable

PoE Switch

LAN Cable

PKC4000

Monitor

Recorder

PC

CHURCH

CONCERT

SPORT LIVE

INTERVIEW

Application Fields

The controller can be widely used in various field events, such as church, concert, education, interviews, sport live and other live broadcast activities.

195mm

110.2mm

340mm

SPECIFICATIONS

		PKC4000	PKC4000-NDI
CONNECTIONS	Interfaces	IP(RJ45)×1, RS-232×1, RS-485/RS-422×4, TALLY×1, USB2.0 (For upgrade)	
	IP Protocol	ONVIF, VISCA-IP	ONVIF, VISCA-IP, NDI
	Serial Protocol	PELCO-D, PELCO-P, VISCA	
	Serial Baud Rate	2400, 4800, 9600, 19200, 38400, 115200 bps	
	LAN Port	100M×1 (PoE/PoE+: IEEE802.3 af/at)	
USER INTERFACES	Display	5 inch Touch Screen	
	Knob	Quickly control iris, shutter speed, gain,auto exposure, white balance, etc.	
	Joystick	Pan/Tilt/Zoom	
	Camera Group	10 (Each group connect up to 10 cameras)	
	Camera Address	Up to 100	
	Camera Preset	Up to 255	
POWER	Power	PoE/ DC 7~24V	
	Power Consumption	PoE: ＜8W, DC: ＜8W	
ENVIRONMENT	Working Temperature	-20°C~60°C	
	Storage Temperature	-20°C~70°C	
DIMENSION	Dimension(LWD)	340mm×195mm×49.5mm/ 340mm×195mm×110.2mm(With joystick)	
	Weight	Net：1730g, Gross：2360g	

ACCESSORIES

12V 2A Power Adapter

Tally Connector