TENVEO KB500

4-Split Touchscreen Joystick Controller



Multiple protocols | 26 Groups Control | PoE+1000M | Tally Control | 7 inch Touch Screen | 4K 60fps Decoding

Tenveo KB500 is a professional-grade PTZ joystick controller equipped with a variable-speed 4D joystick and a 7-inch LCD touchscreen for real-time monitoring and 4-split screen live streaming, allowing you to easily control the camera's all-round rotation, zoom in/out, thereby bringing a more professional video production experience. Powered by RK3568 processor, it supports H.264 & H.265 decoding with up to 4×1080P60 and 1×4K60 decoding capability. It also supports independent IP address and IE web setting. It is compatible with VISCA, VISCA Over IP, PELCO P/D, ONVIF and NDI|HX3 protocols, supporting RS232, RS422, RS485, and Gigabit Ethernet IP connections. With HDMI 2.0 output, Tally and group control, it is designed for professional broadcasting and live production.

7-inch Touchscreen & 4-Split-Screen Preview Image

7 inch LCD touchscreen which supports 4 cameras image previewing and monitoring at the same time. The decoding capability supports up to 4×1080P60 H.264/H.265 and 1×4K60 H.265 decoding, delivering exceptional image quality for demanding production environments.



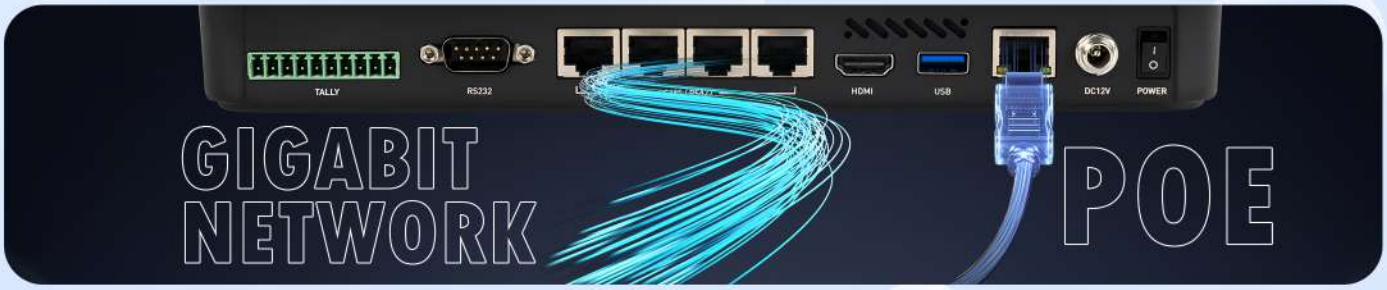
26 Groups Control & 4+1 Custom Buttons

Supports group control with 26 groups, 10 cameras per group, managing up to 255 IP cameras efficiently. Equipped with 4+1 custom buttons (F1~F4 and joystick top button), each can be assigned to quick-access functions for streamlined operation. Supports switching AI tracking mode, recording and playback of camera cruise routes.



Single Cable Simplicity — PoE+ & Gigabit Network with Locking Power Connector

Supports PoE+(Power over Ethernet) functionality with Gigabit network port(1000M), installation requires only a single Ethernet cable, greatly simplifying wiring while ensuring both power supply and high-speed stable data transmission. The DC 12V power input features a locking connector for secure and reliable power connection.



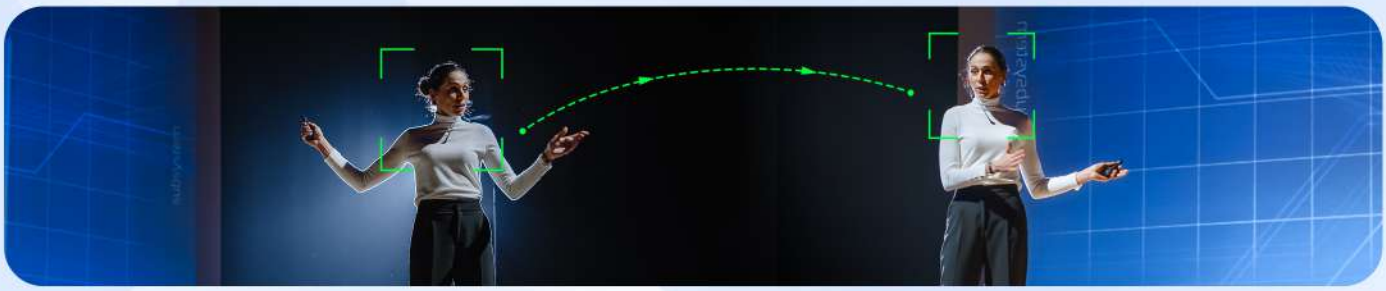
Tally Integration, HDMI Output & Multiple Protocol Support

Built-in Tally interface supports connection to Tally lights and switchers via network, or Tally port(PGM IN/OUT, PVW IN). HDMI 2.0 output supports 1080P60 resolution for external monitoring. The controller supports multiple control protocols: Pelco-P/D via RS422/485 (4×RJ45), ONVIF, NDI|HX3 and VISCA over IP. It is highly compatible with most PTZ camera brands on the market and supports up to 255 quick CamID switches for efficient operation.



Switch AI Tracking Mode and Record Camera Cruise Route

The controller support turn on/off the camera presenter tracking and Auto framing function by shortcuts. Meanwhile, it supports setting, recording and playback the camera cruise route.



Multiple Application for the Controllers

The KB500 PTZ camera controller can easily control most dome network cameras, conference cameras, PTZ cameras, etc. It can realize remote control, monitoring, video management and other functions. It is very suitable for large-scale scenes such as business meetings, educational lectures, churches, governments, live broadcasts, and professional broadcasting studios.



Model	KB500
Operating System	Linux
Display	7 inch LCD Touch Screen
Video Output	1024*600P
Processor	RK3568
Decoding Capability	Video Decoding: H.264, H.265
	Decoding Capacity: Up to 4×1080P60 or 1×4K60(H.265)
Control Protocols	VISCA, PELCO-P, PELCO-D, VISCA OVER IP, ONVIF, NDI
Functions	1. Group Control: 26 Groups(10 cameras per group), up to 255 IP cameras.
	2. Presets: Supports up to 255 presets.
	3. Image Controls: Exposure, White Balance, Brightness, Focus, Shutter/Iris/Gain, R/B Gain.
	4. OSD Menu: Supports OSD menu invocation.
	5. Zoom Control: Independent zoom adjustment.
	6. Speed Adjustment: Variable PTZ and Zoom speed control.
	7. Multi-View: Supports 4-split screen (quad-view) preview.
	8. Motion Path: Camera cruise route recording and playback.
	9. Snapshot: Supports video stream screenshots.
	10. Configuration: Web-based backend configuration.
	11. Customizable Keys: Supports 4+1 programmable/custom keys.
	12. Tally Function: Supports Tally light indicators.
IP Search	ONVIF, SONY VISCA, NDI
System Setting	Multi-language Support, Firmware Update, Static MAC Address
Power Supply	Power Input: DC 12V; PoE+
Power Switch	Set the Power Switch to "ON" to power on the device
Interface	DC IN*1, LAN RJ45*1, USB*1, TALLY*1, HDMI 2.0*1, RS422/485*4(RJ45*4), RS232*1 (DB9)
Network/PoE Standard	1000M(PoE/PoE+: IEEE802.3 af/at)
Baud Rate	2400, 4800, 9600, 19200, 38400, 115200 bps
Operation Method	4D Joystick Controller, Stepless Rotary Knob, Backlit Buttons
Max. Number of Groups	26 groups(10 Cameras per group)
Max. Cameras Supported	Supports up to 255 cameras
Presets	Supports up to 255 presets
Custom Buttons	F1~F4 & Joystick Top Button
Tally Interface	PGM IN/OUT, PVW IN
Lock	Button Lock, Screen Lock
Power Consumption	<10W
Mean Time Between Failures	＞10000 hours
Operating Temperature	10%~90%RH(Non-condensing)
Operating Humidity	-10℃~50℃
Dimensions (L×W×H)	355*265*170mm(After Packing)
Net Weight	2.02kg

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