



P2P-KHR302

Point-to-Point Dual-Head HDMI CAT5 & Fiber Receiver with USB 2.0, Audio, and Optional RS-232.

P2PKVM Series High-Performance KVM-over-IP Extender & Matrix Solution. Designed for mission-critical environments, it delivers ultra-low latency, dual HDMI video, and secure connectivity over CAT5 and Fiber networks, ensuring efficient system control and flexibility.

FEATURES



Selectable Direct, Matrix, and SaviGate modes via web interface



Supports HDMI up to 3840×2160 @30Hz or 2560×1600 @60Hz on two monitors



Transparent USB 2.0 extension for peripherals



SaviGate Gateway support for centralized management (sold separately)



Ultra-low latency JPEG2000 compression



Plug-and-play installation



Analog audio and Optional RS-232 passthrough



EDID learning and management



Up to 100 m over CATx / 10 km over fiber

IDEAL USE CASES



AV and IT extension for secure environments



Digital signage and workspace centralization



Medical and industrial command centers



Military and government operations



Broadcast and production control rooms

HOW IT WORKS

Flexible KVM extension and switching

The P2P-KHR302 can operate in multiple modes depending on your application needs:



Direct Mode

Simple point-to-point extension without configuration



Matrix Mode

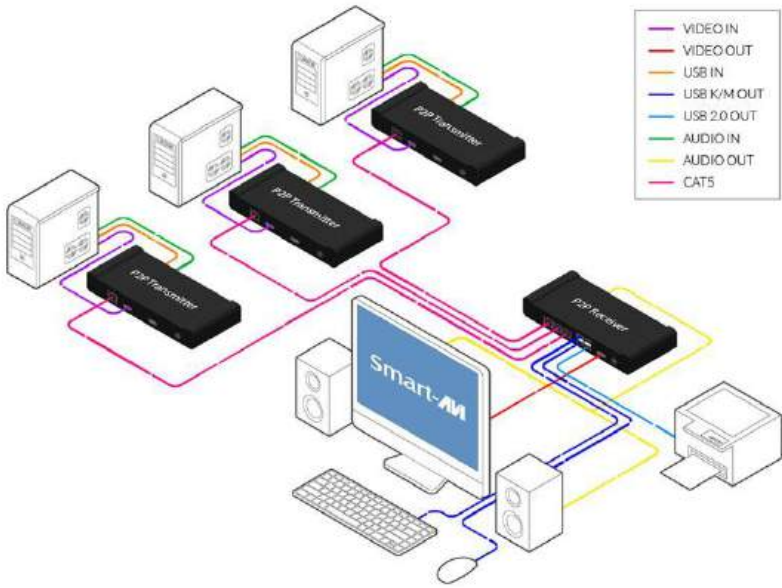
OSD-based multi-user KVM switching across a network



SaviGate Mode

Centralized management, access control, and advanced routing when integrated with a SaviGate controller

Modes are easily changed using a simple dropdown menu within the web browser interface of each unit.



COMPATIBLE TRANSMITTERS

Pairs with the following transmitter models for point-to-point operation:

- **P2P-KVT302** - DVI Transmitter via CATx & Fiber
- **P2P-KHT302** - HDMI Transmitter via CATx & Fiber
- **P2P-KDT302** - DisplayPort Transmitter via CATx & Fiber

SPECIFICATIONS

Video OUT	
Format	HDMI 1.4 & HDCP 1.4 Compliant, Video Bandwidth Up To 10.2 Gbps
Video Resolution	Up To 4K @ 30 Hz (each output)
Connector	2× HDMI (19-Pin Female)
System	
Interface	EDID Storage & Emulation
Transmission Distance	Up To 100m; LC Connector Fiber Multimode: Up to 500m; Fiber Single Mode: Up to 10km
Compression	Ultra-Low Latency JPEG2000
Optional RS-232	Optional Pass-through up to 115200
Management	Selectable Direct, Matrix, SaviGate Gateway support for centralized management (sold separately)
Audio	
Format	PCM 2.0/2.1/5.1/7.1, Dolby Digital 5.1 ch, Dolby Digital Plus, Dolby TrueHD, DTS 5.1 ch
In/Output Interface	3.5 mm Stereo Aux Socket (Female)

USB	
Out	4x USB Type A Ports, USB 2.0, USB 1.1, USB 1.0 compatible
KM	Keyboard & Mouse Emulation
Other	
Power	12v DC, 3A (Power Supply Included)
Reliability (MTBF)	135,540 Hours (MIL-HDBK-217F (N2) Parts Count Prediction Calculator)
Environmental Operating Temperature	0°C to 45°C (32°F to 113°F)
Environmental Operating Humidity	10% to 90%, non-condensing
ESD Protection	Protection per IEC 61000-4-2 Standard at ±30kV Air and ±30kV Contact
Support Warranty	1-Year
Certification	CE, FCC, RCM, UL
Dimensions	11.5"W x 5.25"D x 1.70"H
Weight	1.81lbs and 0.82kg

ORDERING DETAILS

P2P-KHT300-S	HDMI Transmitter with Single Head support, Point-to-Point mode over CATx & Fiber connection. [P2P-KHT300, PS5VD2A]
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