Smart-AVI
SMART AUDIO VIDEO INNOVATION

P2P-KHR100

Point-to-Point Single-Head HDMI CAT5 Receiver with USB 2.0, Audio, and RS-232.

Extend, control, and manage your HDMI-based workstation over IP with the P2P-KHR100. Supporting flexible Direct, Matrix, and SaviGate modes, the P2P-KHR100 adapts to your installation needs — from simple point-to-point extensions to full multi-user managed environments — over CATx.

FEATURES

Supports HDMI video up to 4K @ 30Hz or 1080p @ 60Hz

Transparent USB 2.0 extension for peripherals

Analog audio and RS-232 passthrough

Selectable Direct, Matrix, and Savigate modes via web interface

Savigate Gateway support for centralized management (sold separately)

Up to 100m over CATx / 10km over fiber

Ultra-low latency JPEG2000 compression

Plug-and-play installation

EDID learning and management

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

smartavi.com

HOW IT WORKS

Flexible KVM extension and switching

The P2P-KHR100 can operate in multiple modes depending on your application needs:

Direct Mode
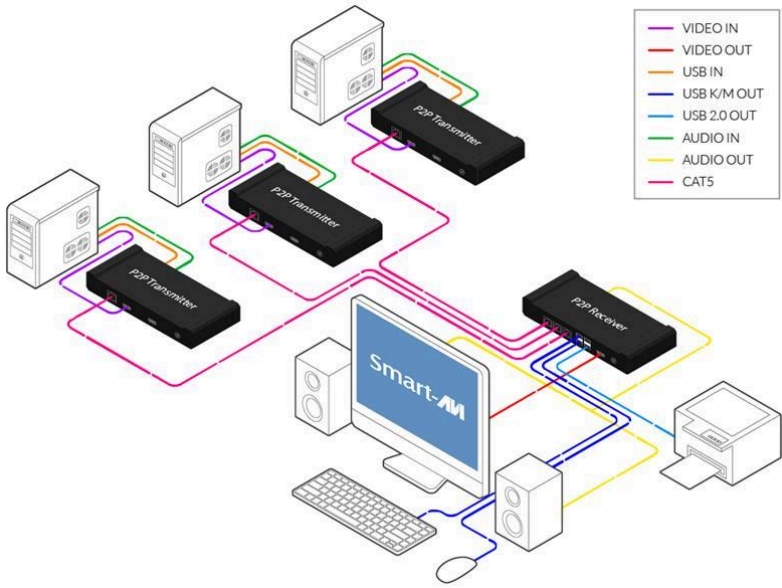Simple point-to-point extension without configuration

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.

—	VIDEO IN
—	VIDEO OUT
—	USB IN
—	USB K/M OUT
—	USB 2.0 OUT
—	AUDIO IN
—	AUDIO OUT
—	CAT5

COMPATIBLE TRANSMITTERS

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

- **P2P-KVT100** – DVI Transmitter via CATx
- **P2P-KHT100** – HDMI Transmitter via CATx
- **P2P-KDT100** – DisplayPort Transmitter via CATx

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
Connector	1× 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
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	4.25"W x 3.70"D x 1.6"H
Weight	1 lbs 0.45kg

ORDERING DETAILS

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