Datasheet

AVNEX-W80K-T/R | 4k 60Hz Integrated Transmitter/Receiver Panel with Network Backup, KVM & OSD Menu



Key features

- 4K@60Hz Ultra-HD Display: Sharp, vibrant, and detailed video output.
- OSD Menu Control: Easy signal switching and multi-screen management via hotkeys.
- Multi-Level Authority Management: Secure, granular user permissions for access and operation.
- Centralized Management: Integrates display, seat, and USB data control into a single device.
- Dual Backup Transmission: Optical fiber + network ensures uninterrupted signal delivery.
- Dual Power & PoE Support: Stable operation even in critical environments.
- KVM Collaboration: Control multiple hosts with a single mouse and keyboard efficiently.
- Multi-Screen OSD Management: Supports signal push, capture, and multi-user collaboration.

Product Overview

The Macsys AVNEX-W80K-T/R is a high-performance integrated transmitter and receiver panel designed for modern meeting rooms, classrooms, and collaborative environments. Combining dual HDMI inputs, a single HDMI output, and audio de-embedding, it delivers ultra-high-definition 4K@60Hz visuals with crisp, detailed imagery.

Engineered for centralized control and reliability, it supports RS-232, IR, and web-based management, along with KVM functionality for controlling multiple hosts from a single console. Dual transmission modes—network and optical fiber—combined with dual power supply and PoE support ensure stable, uninterrupted operation even over long distances up to 120 meters.

The device enhances team collaboration and operational efficiency through OSD multi-screen management, multi-level authority control, and integrated seat and USB data management. With its compact, integrated panel design, the AVNEX-W80K-T/R simplifies system architecture while providing a secure, efficient, and high-fidelity AV experience.

AVNEX-W80K-T/R | 4k 60Hz Integrated Transmitter/Receiver Panel with Network Backup, KVM & OSD Menu

Technical Specification

Feature	Details
Input Interfaces	HDMI–IN ×2, Audio–IN ×1, USB ×2
Output Interfaces	HDMI–OUT ×1, Audio–OUT ×1
Video Resolution	Up to 4K@60Hz
Video Format Support	HDMI 2.0, 4:4:4 Color Sampling
Audio Support	Audio plus, de-embedding
Control Methods	RS-232 serial port, IR remote, Web-based control
KVM Support	Yes, multi-host control via single mouse & keyboard
OSD Management	On-Screen Display for menu control, signal push, multi-screen management
User Authority Management	Multi-level permissions: access, operation, mounting
Transmission Distance	Up to 120 meters (single-ended, PoE)
Network Backup	Supports simultaneous optical fiber and network transmission
Power Supply	DC 12V, dual power supply support, PoE capable
Operating Temperature	-10°C to 40°C
Operating Humidity	10% to 90% RH
Physical Form Factor	Integrated panel design, compact for meeting room / classroom installation
Features	Centralized management of display, seat, and USB data; stable and secure operation
Certifications	CE, RoHS compliance

©2024 Macsys

Macsys reserve rights to introduce modifications without notice. Product images are for illustrative purposes only, the actual product may vary. Warranty policy applies as described on our website.