



## ATEN KX9970R

ProdCode: ATENKX9970R

5K DisplayPort KVM over IP Receiver



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### Features

- 5K DisplayPort KVM over IP Receiver
- Native DP signal processing with colour depth up to 12 bits
- Lossless video compression up to True 4K, 5K with zero latency
- Support 32:9 ultra-wide resolution
- USB isochronous transfer enables USB camera and USB speaker usage between transmitter and receiver

As workplaces face restructuring and decentralization is inevitably enforced, control room operations are being challenged to pivot effectively throughout these safety protocols in the new normal. Despite manpower shortages, managing escalations with secure, precise, and timely data from real-time monitoring and dynamic collaboration has become measurably more mission-critical than ever.

The KX9970T is a high-performance KVM over IP transmitter that allows connection to a DisplayPort computer and enables secure, remote, and uninterrupted access to the computer from a 5K DisplayPort KVM console connected to a KX9970R receiver over an Intranet or a dedicated LAN. With the receiver console installed at a separate location from the transmitter within a standard IP network, mission-critical control room operations become more ergonomic, user-centered, and task-oriented, while remaining separate from any adverse environmental interference.

The KX9970 expands on previous models with support for up to 10 Gbps optic fiber network connection, transcendent 5K audiovisual performance, speedy peripheral data sharing, and many other new features. This future-proof KVM over IP Matrix System solution, incorporating flexible extender connections, visual collaboration, and system control, aims to streamline control room workflows to jump start operators' productivity with KVM over IP agility.

### **Native DisplayPort Signal Processing with 12-bit Deep Colors**

The essence of information visualization is in presenting the vividness of image coloring (ex. broadcast post production, meteorological analysis, etc). Powered by native DisplayPort signal processing with 8/10/12-bit color depth, the KX9970 delivers stunning visualization with a wider color spectrum comprising Adobe RGB / sRGB / YCbCr / YUV color spaces, facilitating lossless video compression over real-time KVM over IP data transmission.

### **Pixel-Perfect 5K Audiovisual Performance**

The KX9970 revamps control room desktop operations with optimum image quality of 5K@60 Hz@4:4:4. Aided by the graphics card's dithering effect, the KX9970 brings a wider array of luminosity with smoother image rendering, providing an impactful user experience to considerably uplift control room productivity.

### **Spectacular Video FPS to Facilitate eSports Broadcasting**

With eSports booming and beginning to rival traditional sports leagues in viewership,

it's more important than ever to broadcast impeccable coverage of global gaming events and tournament where every tiny detail is crucial to viewers. The KX9970's support for 1920x1080@240Hz (CVT-RB) / 2560x1440 @144 Hz allows broadcasting producers to seamlessly switch live between on-scene players and gaming feeds without experiencing any impactful lag or interruption while the video is being streamed.

## **Enhanced Isochronous USB Transmission**

In addition to peripheral sharing (such as cameras, microphones, speakers, and more), the USB peripheral ports are capable of isochronous transfer communication to facilitate USB data transmission at a higher rate.

## **Fail-Safe System with Network/Power Redundancy**

The KX9970 provides network/power redundancy that reinforces system reliability by maintaining uninterrupted operations and seamless power failover during any contingency. The KX9970 extenders are equipped with two SFP+ modules and one RJ-45 port to allow fiber and copper network connections, ensuring real-time data transmission and robust system uptime.

## **Panel Array™ Mode to Maximize Remote Console Efficiency**

In tandem with CCKM (KVM over IP Matrix Manager), the operator at each remote console connected to a KX9970 receiver can benefit from ATEN's Panel Array™ mode that enables simultaneous view of video sources from multiple transmitters in 2x2 up to 6x6 multiview layout on one screen.

## **Effortless KVM over IP Extension**

The KX9970 guarantees secure, extendable, and zero latency KVM over IP data transmission with no distance constraint to expedite real-time situational awareness for control room management. Extended data is bolstered with AES 256-bit encryption before transmission over the network and decrypted at the receiver for disclosure.

## **KVM over IP Control Access as Emergency Measure**

The KX9970T comes equipped with a PS/2 port for connection to a KVM over IP Access Control Box (2XRT-0015G), which can be used to stop all remote receiver connections in times of emergency to allow technicians to perform timely troubleshooting and required maintenance at the local console.

## Comprehensive Video Wall Collaboration to Reinforce Teamwork Efficiency

When integrating with the video wall, the KX9970 features ATEN's patented Boundless Switching which allows operators to intuitively switch control from one computer to another by moving the mouse cursor across screens, in order to respond to any incident with escalated awareness. Furthermore, all screen contents can be "pushed" and "pulled" for prompt collaboration, sharing, and troubleshooting as required between workstations and the video wall, facilitating a streamlined control room workflow to maximize informed decision making.

## KVM over IP Matrix System for Control Rooms of the Future

The KX9970 deployment is flexibly scalable, allowing point-to-point, point-to-multipoint, multipoint-to-point, and multipoint-to-multipoint installations to accommodate a multitude of industrial applications. The KX9970 extenders can be mixed and matched in a matrix configuration for installation, and this KVM over IP Matrix System allows for effortless and centralized management of all extender connections via CCKM – the KVM over IP Matrix Manager's web GUI or an iPad app.

## Applications

The KX9970 is perfectly suited to mission-critical control room applications where secure KVM over IP agility, real-time monitoring, and ergonomic desktop operations are demanded, including broadcasting NOCs, ATC towers, & production line monitoring. It is also ideal for professional gaming.

### In the box:

- 1x KX9970R 5K DisplayPort KVM over IP Receiver
- 1x power adapter and power cord
- 1x user instructions

