What is AV over IP?

AV over IP (AVoIP) is a method of distributing audio, video, control signals and more over standard IP Networks utilizing a variety of compression technologies to encode and decode transmissions between source and display depending on network demands and desired image quality.

AVoIP was initially used in a variety of ProAV applications due to its low bandwidth characteristics, compatibility with existing network infrastructures and cost-efficient scalability for large footprint arrays.

However, AVoIP technology has evolved to include low and zero latency transmissions, seamless switching and lossless video quality supporting 4K UHD, high frame rates, 4:4:4 and HDR to become an increasingly viable alternative to conventional AV transmission over distance technologies for both residential and commercial applications.

Key Avantages of AVoIP

An AV solution for the IT professionals

- Utilizes tried and tested industry network standards to distribute content cost-efficiently and reliably over IP Networks with PoE support
- Connect a display device to any room Network port and the video will automatically be routed to it
- Overcome distance limitations by utilizing optical fiber network links

Perfect for decentralized system designs

- Dynamic AV routing without the need for additional distribution amplifiers or multiple transmitters at a back-end patch panel
- Ideal for projects 16x16 and over, AVoIP is capable of the largest AV distribution spanning multiple floors or buildings

Cost scales in-line to Inputs/Outputs

- True convergence of AVoIP and other IT services reduces hardware and installation costs when compared to non-IP AV
- Far greater flexibility than fixed port matrix solutions for large-scale installations perfectly tailored to applications

- AV distribution is now as flexible as your network
In addition to all the advantages of AV over IP detailed over the page, the benefits of the WyreStorm NetworkHD line make for a compelling AVoIP argument, whatever your commercial or residential application.

- Supports resolutions up to 1920x1200 (100/200 Series), 4K with HDR over 1GbE (400 Series) and lossless 4K/60 4:4:4 and HDR over 10GbE (600 Series)
- 4K/2K image scaling on 400 and 600 Series
- Easy network set-up using standard managed PoE switches
- Plug-and-play scalability enables effortless system expansion thanks to automatic detection on new components
- Multi-view and video wall up to 16x16 with bezel correction, rotation for portrait and image flipping
- Major control system integration, including WyreStorm Enado with single 3rd party driver support for the entire NetworkHD line
- Free award-winning NetworkHD Touch app on 100, 200 and 400 Series systems, featuring access to an entire system, live video previews of all connected sources, selections and video walls, drag and drop selection and Enado integration
- Unified setup and administration environment across all three NetworkHD platforms with no new learning curve to migrate between them
- All three platforms can happily co-exist on the same 10GbE network utilizing the same NetworkHD controller without any clash by sharing the same subnet.
- Market leading switching speeds and reliability, including unique chassis design on 600 Series to maximize heat dissipation
- All three NetworkHD platforms can be managed simultaneously on the same managed 10GbE switch by a single NetworkHD controller
- 5 year warranty for ultimate peace of mind