LIGHTNING is an AV over IP system without equal. Capable of delivering uncompressed zero millisecond hi resolution video with an accompanying feature set not seen in any video distribution system before it. Based on the award winning technology, it provides unprecedented image quality reproduction at even the highest 4K60 4:4:4 resolution.

LIGHTNING provides integrators with the freedom to create the ultimate video distribution system without compromise. With built in analytics, administrators can now gain valuable insight into the actual use of their AV system.

Part of LIGHTNING’s Director software allows customised GUI based control UI for touch panel creation which can recall any number of preset commands, enabling simple control system operation.

Extending LIGHTNING’s video processing capabilities, it’s multi view feature can easily create the digital canvas, the next generation of video presentation format. The unprecedented flexibility and feature set of Lightning will enable projects that are only limited by your imagination.

**MATRIX SWITCHING WITH MULTIVIEW**

**SOURCE**

**DISPLAY**

10 GbE SWITCH

4K OVER IP 1080P OVER IP MATRIX WALL OVER IP CONTROL OVER IP POINT TO POINT OVER IP MULTIVIEW OVER IP USB2.0 OVER IP
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**SPECIFICATION**

**Video Interfaces**
- HDMI 2.0 / HDMI 1.4 / DVI 2.0
- Pixel clock up to 594 MHz

**Video Resolutions All SD, HD, and other resolutions up to**
- 4K / 60 Hz / RGB and 4:4:4 8 bit
- 4K / 60 Hz / 4:2:2 10 bit (HDR)
- 4K / 60 Hz / 4:2:0 10 bit (HDR)

**Audio Interfaces**
- All audio formats supported by HDMI 1.4 and HDMI 2.0, including: LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD I2S stereo input and output up to 48 kHz 24-bit

**Control Interfaces**
- RS-232 (up to 115.2 kbaud)
- Infrared
- USB 2.0 (full device support, up to 480 Mbps) with 3rd party chipset
- Gigabit Ethernet

**Transmission Distance (Cat6a/Cat5e)**
- Up to 100/60 meters for 4K / 60 Hz / 4:4:4 video
- Up to 160/130 meters for 4K / 30 Hz / 4:4:4 video
- Up to 250/230 meters for HD video
- Distances over 100 meters are supported on point to point links only
- Digital Content Protection HDCP 1.2 / HDCP 2.2 Compatible

**AV Processing Technology AptoVision Plethora**
- Broadcast quality up-scaling and downscaling
- Color space and frame-rate conversion
- Multi-source video compositing
- Ultra-light compression, lossless for most content
- Audio embedding and de-embedding
- Audio down-mixing and re-sampling
- Video-splitting and bezel correction

**Synchronization Technology AptoVision ACR (Automatic Clock Recovery)**
- Multiple displays genlocked to single source
- Zero-frame latency

**Multi-Signal Streaming Technology BlueRiver Channel Coder**
- Encoding multiple native signals into IP streams
- Decoding IP streams into multiple native signals
- Bidirectional, 10Gbps
- Encryption AES-128

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