4K/UHD, 6-Input Multi-Format Switcher with HDBaseT Inputs, Mirrored HDMI and HDBaseT Outputs, PoE, and Advanced Automatic System Control

AT-UHD-CLSO-612ED

The Atlona AT-UHD-CLSO-612ED is an advanced six-input, multi-format switcher with 4K scaling, Ethernet-enabled HDBaseT™ and PoE capabilities. It simplifies classroom and small office system integration by providing two HDBaseT inputs, two HDMI inputs, two multi-function analog inputs, plus mirrored HDBaseT and HDMI outputs. Advanced Automatic System Control (AASC) features on the switcher provide automatic display control and automatic input selection. Ethernet pass through on the switcher enables control signal pass-through and Internet distribution. The AT-UHD-CLSO-612ED contains a full RS-232 signal distribution system to route control signals to local sources and displays. Professional audio features such as a microphone input with 48-volt phantom power and ducking eliminates additional voice-lift audio needs. The switcher is configured and managed by Atlona Management System software to reduce installation time and enable remote support. The AT-UHD-CLSO-612ED addresses a wide array of AV switching and processing needs often encountered in classrooms, conference rooms, boardrooms, training rooms and other presentation settings.

The AT-UHD-CLSO-612ED is designed to be the central component of an automated AV system. Automatic display control turns on the display automatically whenever a source is connected. When the source is removed, the display is turned off. Volume is controlled by using the front panel buttons and by RS-232 or TCP/IP commands. With automated input selection for active input selection, third-party control systems can be eliminated. The AT-UHD-CLSO-612ED combines the benefits of a scaling switcher with AASC and the advantages of Ethernet-enabled HDBaseT signal transmission to extend AV and control signals over a single cable. In addition to automated input selection, the switcher can be controlled via the Atlona AT-ANC-108D 8-Button Network Control Panel.

Two Ethernet-enabled HDBaseT inputs -
- Works with Atlona HDVS-150/200 series transmitters or AT-UHD-EX-100CE-TX-PD for placement at remote sources near lecterns, conference tables, and instructor's desks up to 328 feet (100 meters) from the switcher
- Simplifies integration of remote sources by eliminating power supplies when used with PoE-powered transmitters. Single category cable carries AV signals, Ethernet control and PoE power

Automatic display control -
- Automatically changes projector power state based on active or standby mode of switcher. Control signals transmitted via CEC, IP, or RS-232
- Eliminates need for complex control system in AV systems. Enables display and volume control. CEC enables control of low-cost consumer displays

Automatic input selection using video detection technology -
- Selects active input when sources are connected or if there is a change in source power status
- Eliminates need for complex control system in AV systems

RS-232 control signal distribution -
- Dedicated RS-232 connections for all local sources and destinations plus transmission over HDBaseT allow the switcher to be used as a RS232 distribution system to all local and remote sources and displays
- Lowers the cost of control system integration by reducing the number of RS-232 interfaces on the processor

Built-in 4K scaler -
- Scales to and from most resolutions up to 4K to optimize content from any source to any monitor or projector up to 4K. Down-scaling allows 4K sources to be displayed at 1080p or less
- Eliminates the need for external scaling components. Preferred input resolution can be easily set for best results

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Specifications

Video Resolutions

Video	4096x2160@24/25/30, 3840x2160@24/25/30 (UHD), 2048x1080p, 1080p@23.98/24/25/29.97/30/50/59.94/60Hz, 1080i@50/59.94/60Hz, 720p@50/59.94/60Hz, 576p, 576i, 480p, 480i
VESA	2560x2048, 2560x1600, 2048x1536, 1920x1200, 1680x1050, 1600x1200, 1600x900, 1440x900, 1400x1050, 1366x768, 1360x768, 1280x1024, 1280x800, 1280x768, 1152x768, 1024x768, 800x600, 640x480
Color Space	YUV, RGB
Chroma Subsampling	4:4:4, 4:2:2
Color Depth	8-bit, 10-bit, 12-bit

Audio

Analog IN/OUT	PCM 2Ch
HDMI	PCM 2Ch, LPCM 5.1, LPCM 7.1, Dolby Digital, DTS 5.1, Dolby Digital Plus, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, DTS:X
Sample Rate	32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz
Bit Rate	up to 24-bit

Distance

CAT5e/6 @ 4K	up to 70M	up to 230 ft
CAT6a/7 @ 4K	up to 100M	up to 328 ft
CAT5e/6 @ 1080p	up to 100M	up to 328 ft
HDMI IN/OUT @ 4K	up to 5M	up to 15 ft
HDMI IN/OUT @ 1080p	up to 10M	up to 30 ft

Signal

Bandwidth	10.2 Gbps
CEC	Compliant
HDCP	Switchable - Compliant/Non-compliant - 1.4

Temperature

Operating	0°C to 50°C	32°F to 122°F
Storage	-20°C to 60°C	-4°F to 140°F
Humidity	20 to 90% non-condensing	

Power

Consumption	43W
Idle Consumption	4W
Supply	Input: AC100-240V ~ 50/60Hz Output: DC 48V/3.125A

Dimension

H x W x D	44 x 438 x 254 (mm)	1.73 x 17.24 x 10 (inch)

Weight

Device	3.22 kg	7.10 lbs

Certification

Unit	CE, FCC
Power Supply	CE, FCC, Level VI, RoHS, cULus, RCM, CCC
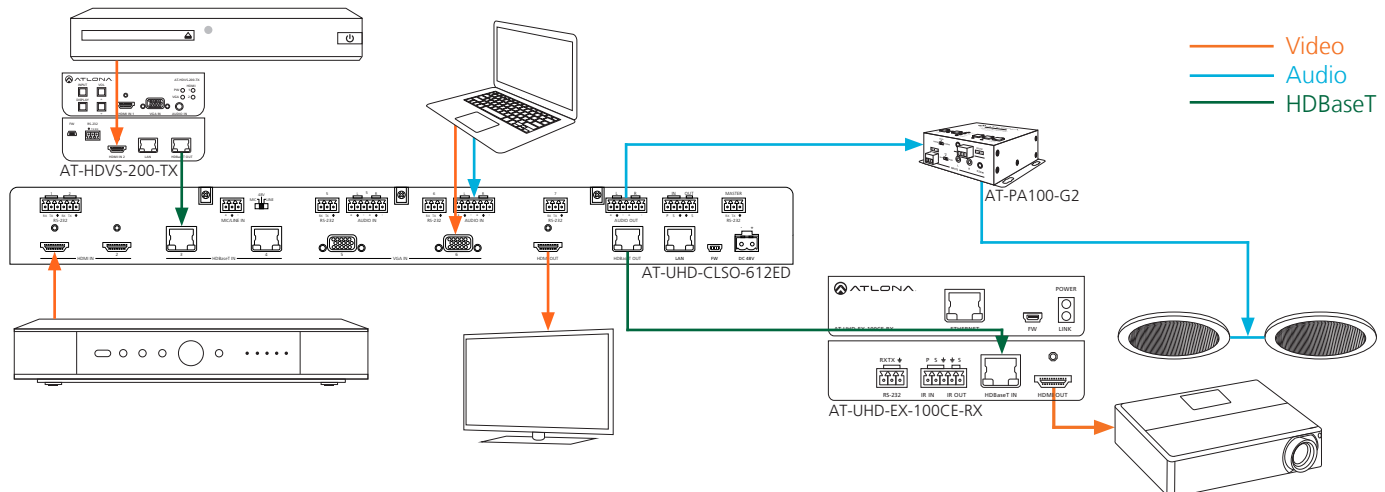
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