



Introduction

The Atlona **AT-UHD-SW-52ED** is a 5x1 HDMI switcher with mirrored HDMI and HDBaseT™ outputs, balanced audio outputs, auto-switching, and advanced control capability. The switcher supports 4K/UHD @ 60 Hz, 4:2:0; offers 3D pass-through, and 10.2 Gbps bandwidth. With front-panel buttons and IR control, it can be a standalone switcher. It transmits AV signals along with Ethernet, power, and control over a single cable to displays up to 328 feet (100 meters) from the switcher to PoE-powered HDBaseT receivers or HDBaseT displays. Control options include auto-switching, front-panel buttons, and compatibility with IR, RS-232, or TCP/IP-based control systems. Advanced features also include a web-based GUI for easy set-up and management of EDID, HDCP, and display control. The switcher offers audio de-embedding of PCM audio over HDMI to either S/PDIF or two-channel analog audio outputs. The switcher is a cost-effective product for professional integration featuring a compact, 1U, half-rack width enclosure that is easily installed with the included 19" rack-mount brackets. Two units can be mounted side-by-side.

Applications

- Conference rooms and meeting rooms
 - The SW-52ED is compact and ideal for under-table mounting. It conveniently provides automatic switching and display control for simplified user operation, especially when laptops are brought into the system.
- Presentation spaces where two displays are needed
 - This switcher can be installed in a lectern to serve a confidence monitor, plus the primary display in a remote location.

HDMI

The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI licensing Administrator, Inc.



Key Features

Mirrored, dual outputs on HDMI and HDBaseT

- Supports dual display environments with local and extended distance 330 foot (100 meter) displays.
- Eliminates cost associated with extra extension components; simplifies installation. HDMI output can be used with additional HDBaseT transmitter.

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 directly or with AT-UHD-EX-100CE. CEC enables control of low-cost consumer displays.
- Any product that has mirrored output with HDMI and HDBaseT will have CEC functionality through the HDBaseT output.

Automatic input selection using hot plug detect and 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.

4K/UHD capability

- Compatible with Ultra High Definition sources and displays.
- Supports high-resolution applications such as CAD, desktop publishing, and detailed financial reporting.
- Supports up to HDCP 1.4⁽¹⁾

AV, Ethernet, power and control over HDBaseT

- Delivers 4K/UHD video, audio, 100Base-T Ethernet, power and control through a single cable.
- Eliminates multiple cable runs between source, control system router and display.

IR, RS-232 and Ethernet HDBaseT insertion

- Adds internally-generated or externally-generated display control signals to the HDBaseT transmission.
- Simplifies display control from third-party control systems.

Power over Ethernet for remote-powered HDBaseT receivers

- Industry standard IEEE 802.3af PoE supplied by the switcher over HDBaseT.
- No local AC outlet required; saves time and integration costs.

TCP/IP, RS-232, and IR control

- Flexible control options compatible with 3rd-party control systems.
- Reduces integration time and costs.

EDID management

- Manages EDID communications between source and display; allows integrators to force sources to preferred resolution.
- Ensures desired audio formats and video resolutions are provided to the AV system; eliminates the need for EDID management device.

HDCP management

- Allows non-protected material from PCs to pass to non-compliant displays and teleconference systems while protected content is not transmitted.
- HDCP compliance can be switched on/off from control systems for use with non-compliant displays, streaming devices, and codecs.

Easy, GUI-based configuration using integrated web server

- Offers menu-based configuration of network settings, RS-232 settings, input switching, EDID, and HDCP management and audio.
- Allows fast configuration of internal product settings and troubleshooting from a tablet, smart phone, or PC in the field.

Volume controls

- Volume up and volume down button adjust output level to sound system.
- Alternatively send RS-232 or TCP/IP commands to external control device.



Key Features (continued)

Volume setting indicator

- Displays volume level of the switcher.
- Provides guick indication of level during setup.

Balanced, line level output

- Reduces noise and requirement for external components.
- Matches requirements of commercial sound systems.

Multi-channel audio compliant

- Supports PCM, Dolby® Digital, Dolby Digital Plus™, Dolby TrueHD, Dolby Atmos®, DTS Digital Surround™, and DTS-HD Master Audio™.
- Allows any multi-channel audio stream to be used within a professional audio system.

Rack-mountable, 1U, half rack width enclosure

- Installs easily in rack-mounted systems with included 19" rack-mount brackets.
- Simplifies installations; included hardware allows two units to be mounted side-by-side.

Works with Velocity with Integrated AMS

- This IP-controllable product can be remotely managed by the Atlona Management System software.
- Integrates product configuration, management, and updates to reduce installation time and enable remote support.

Included accessories

 User guide, IR remote control, rack and surface mounting hardware, and external universal power supply.

Award-winning 10 year limited product warranty

- Ensures long-term product reliability and performance in residential and commercial systems.
- Specify, purchase, and install with confidence.



Specifications

Video		
Signal Type	HDMI	
HDCP	1.4	
Pixel Clock	300MHz	
UHD/HD/SD	4096×2160@60 ⁽¹⁾ /50 ⁽¹⁾ /30/25/24Hz 3840×2160@60 ⁽¹⁾ /50 ⁽¹⁾ /30/25/24Hz 2048×1080p 1920×1080p@60/59.94/50/30/29.97/25/ 24/23.98Hz 1920×1080i@60/59.94/50Hz	1280x720p@60/59.94/50Hz 720x576p 720x576i 640x480p 640x480i
VESA	2560×2048 2560×1600 2048×1536 1920×1200 1680×1050 1600×1200 1600×900 1440×900 1400×1050	1366×768 1360×768 1280×1024 1280×800 1280×768 1152×768 1024×768 800×600 640×480
Color Space	YUV, RGB	
Chroma Subsampling	4:4:4, 4:2:2, 4:2:0	
Color Depth	8-bit, 10-bit, 12-bit	

Audio			
HDMI / HDBaseT	PCM 2.0	Dolby® Digital	DTS® Digital Surround™
Pass-Through Formats	LPCM 5.1	Dolby Digital Plus™	DTS-HD Master Audio™
	LPCM 7.1	Dolby TrueHD	DTS:X®
		Dolby Atmos®	
S/PDIF	PCM 2.0	Dolby® Digital	DTS-HD Master Audio™
Bit Depth	Up to 24 bits		
Analog Audio			
Format	Maximum analog output: balanced +18dBu @ 0 dBfs, LPCM 2.0 only		
Sample Rate	32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz		

Control	
RS-232	Device control and configuration Bidirectional pass-through from control system over HDBaseT Supported baud rates: 2400, 4800, 9600, 19200, 38400, 57600, 115200
IP	Protocols: Https, Telnet, mDNS Modes: DHCP, Static - selectable through front panel and web server
CEC Support	Yes

Resolution / Distance	4K/UHD - Feet / Met	ers	1080p - Feet / Meter	S
HDMI IN/OUT	15	5	30	10
CAT5e	230	70	330	100
CAT6/6a/7	330	100	330	100



Buttons and Indicators	
Buttons:	
POWER, UP, DOWN, INPUT	4 - momentary, tact-type
Indicators:	
HDMI 1 - HDMI 5	5 - LED, blue
VOLUME	9 - LED, green, amber, red

Connectors	
HDMI IN	5 – Type A, 19-pin female
HDMI OUT	1 – Type A, 19-pin female
HDBaseT OUT	1 - RJ45
LAN	1 - RJ45, 10/100 Mbps
AUDIO OUT	1 – 5-pin captive screw, balanced / unbalanced 2-channel
S/PDIF OUT	1 – RCA-type, female
RS-232	1 – 3-pin captive screw (bidirectional)
IR IN/OUT	1 – 5-pin captive screw
FW	1 – Mini USB
PWR	1 - 2-pin captive screw

Temperature	Fahrenheit	Celsius
Operating	32 to 113	0 to 45
Storage	-4 to 140	-20 to 60
Humidity (RH)	20% to 60%, non-conden	sing

Power	
Consumption	22W
	Input: 100 - 240 V AC, 50/60 Hz
	Output: 48 V / 5A DC

Dimensions (H x W x D)	Inches	Millimeters	
Unit	1.34 x 8.19 x 4.41	34 x 208 x 112	
Power Supply	1.42 x 1.81 x 4.41	36 x 46 x 112	

Weight	Pounds	Kilograms
Device	1.44	3.15

Certification	
Device	CE, FCC
Power Supply	CE, FCC, cULus, RoHS

Footnotes

- (1) Does not support HDCP 2.2 devices.
- $(2)\ 4096 \times 2160\ @\ 50/60\ Hz\ and\ 3840 \times 2160\ @50/60\ Hz\ supported\ @\ chroma\ subsampling\ 4:2:0\ 8-bit\ only.$

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