4K/UHD
Two-Input Wallplate Switcher
for HDMI and USB-C with HDBaseT™ Output

Introduction

The Atlona **AT-HDVS-210U-TX-WP** is a 2x1 switcher and HDBaseT transmitter with HDMI and USB-C inputs. It features a US one-gang, Decora-style wallplate form factor, and includes interchangeable black and white wallplates and faceplates. The USB-C input is ideal for AV interfacing with newer Mac®, Chromebook™, and Windows® PCs, as well as smartphones and tablets. Video signals up to 4K/UHD @ 60 Hz with 4:2:0 chroma subsampling, plus embedded audio and control can be transmitted up to 330 feet (100 meters). The HDVS-210U-TX-WP is HDCP 2.2 compliant. It is designed for use with select HDVS Series receivers and scalers, as well as the AT-UHD-EX-100CE-RX-PSE receiver, and Atlona switchers and matrix switchers with HDBaseT inputs. This transmitter can serve as an integral component of a fully automated AV system, with the convenience of automatic input selection and display control. It is remotely powered by the UHD-EX-100CE-RX-PSE or other Atlona HDBaseT-equipped devices through Power over Ethernet (PoE).

Applications

- **Complete system applications**
  The HDVS-210U-TX-WP and a compatible HDBaseT receiver provide a compact, yet comprehensive and cost-effective integration solution.

- **Larger system applications**
  The HDVS-210U-TX-WP is ideal for extending AV connectivity from a central equipment rack to lecterns as well as remote wall and floor box locations, where presenters can easily access the system.

Key Features

US one-gang enclosure for Decora-style wallplate openings – interchangeable black or white trim kits

- Allows inconspicuous installation on a wall, in furniture, or in a floor box. Includes black and white wallplates and faceplates.
- Meets end user requirements for conveniently accessible yet discreet AV connectivity.

2×1 HDBaseT switcher with HDMI and USB-C inputs

- Immediate compatibility with new and emerging laptops and tablets with USB-C ports supporting AV*.
- No need to provide USB-C to HDMI adapters.

HDCP 2.2 compliant

- Adheres to latest specification for High-bandwidth Digital Content Protection.
- Allows protected content stream to pass between authenticated devices.

HDBaseT transmitter for AV, power, and control up to 330 feet (100 meters)

- Uses easy-to-integrate category cable for low-cost, reliable system installation.
- Can easily be mixed and matched with Atlona power sourcing (PSE) receivers and switchers depending on system design requirements.

4K/UHD capability @ 60 Hz with 4:2:0 chroma subsampling

- Compatible with sources up to 4K 4:2:0 @ 60 Hz and 4K 4:4:4 @ 30 Hz.
- Allows 4K/UHD transmission when used with a compatible HDBaseT-equipped display or HDBaseT receiver.

Automatic input selection and automatic display control

- Automatically changes display power state, and switches between inputs based on device connection or disconnection from the switcher. Also can also be configured to power off display after a period of inactivity.
- Enables effortless, automated system operation without the need for an external control system.

Remotely powered via PoE (Power over Ethernet)

- Power for transmitter is supplied by Atlona receiver or switcher over HDBaseT.
- Saves time and integration costs.
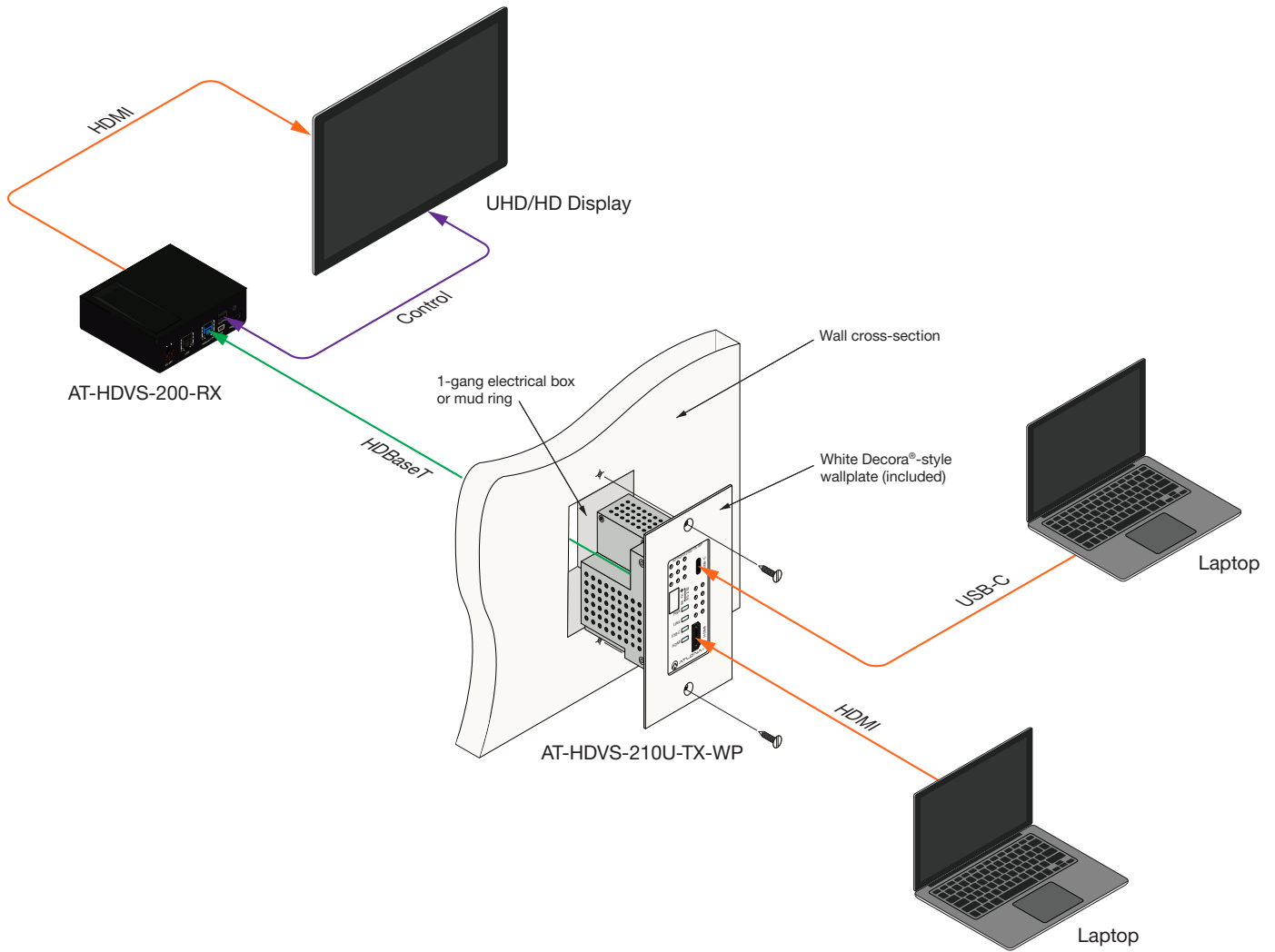
TCP/IP and RS-232 control of switcher

- Flexible control options for compatibility with third-party control systems. TCP/IP control available through a compatible receiver or HDBaseT-equipped switcher.
- Reduces integration time and costs.

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.

* USB-C port does not support USB data or device powering.

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for HDMI and USB-C with HDBaseT™ Output

Connection Diagram

UHD/HD Display

HDMI

Control

AT-HDVS-200-RX

HDBaseT

1-gang electrical box
or mud ring

Wall cross-section

White Decora®-style
wallplate (included)

Laptop

USB-C

AT-HDVS-210U-TX-WP

HDMI

Laptop

Specifications

Video	
UHD/HD/SD	4096×2160@24/25/30/50*/60Hz*, 3840×2160@24/25/30/50*/60Hz*, 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	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
USB-C	Up to 4K/UHD @ 60Hz for devices supporting USB-C Alternate Mode video output
Color Space	YUV, RGB
Chroma Subsampling	4:4:4, 4:2:2, 4:2:0
Color Depth	8-bit, 10-bit, 12-bit

Audio	
Analog In	PCM 2Ch
HDMI In / HDBaseT Out	PCM 2Ch, LPCM 5.1, LPCM 7.1, Dolby® Digital, DTS® 5.1, Dolby Digital Plus, Dolby TrueHD, DTS-HD Master Audio™
Sample Rate	32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz
Bit Rate	up to 24-bit

Resolution / Distance	4K/UHD - Feet / Meters		1080p - Feet / Meters	
HDMI	15	5	30	10
CAT5e/6	230	70	330	100
CAT-6a / CAT-7	330	100	330	100

Signal				
Bandwidth	10.2 GHz			
CEC	Yes			
HDCP	2.2			

USB	
Port	USB Type C: USB-C for AV input (Alternate Mode)

Temperature	Fahrenheit	Celsius
Operating	32 to 122	0 to 50
Storage	-4 to 140	-20 to 60
Humidity (RH)	20% to 90%, non-condensing	

Dimensions	Inches	Millimeters
Wall	1-gang, 2.35 deep	1-gang, 59.5 deep

Weight	Pounds	Kilograms
Device	0.45	0.20

Certification	
Device	CE, FCC

* 4096×2160@50/60Hz & 3840×2160@50/60Hz supported @ chroma subsampling 4:2:0 8-bit only.