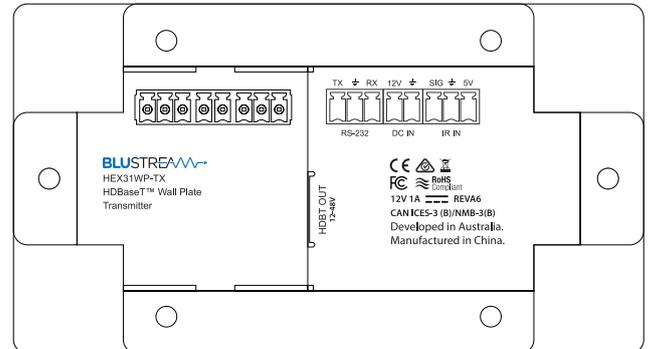
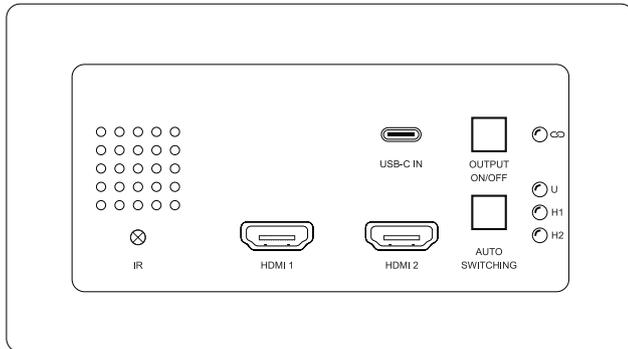


HEX31WP-TX

Quick Reference Guide



Introduction

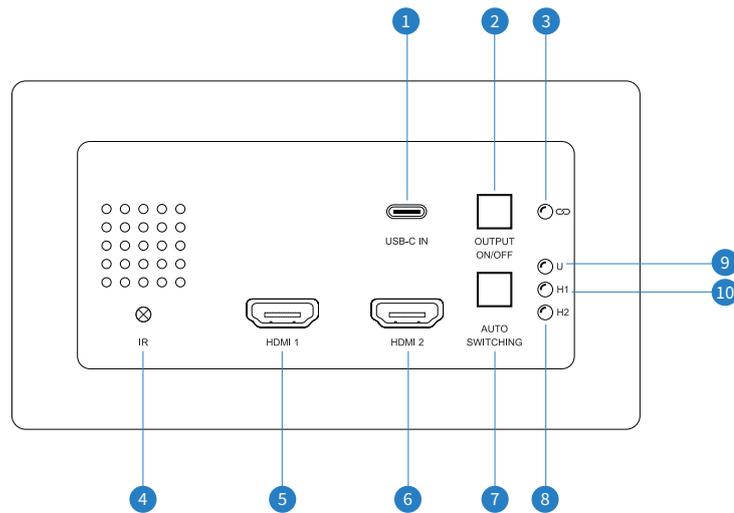
Our HEX31WP HDMI / USB-C wall plate HDBaseT™ Transmitter is a multi-format 4K input switcher solution delivering HDMI and USB-C inputs up to 70m at 1080p (40m at 4K 60Hz 4:2:0). The HEX31WP-TX features both manual or automated source selection and includes display on / off control via CEC, RS-232 and IR (via compatible HDBaseT™ Receiver / Matrix). The HEX31WP-TX has been designed to work with all Blustream HDBaseT™ Receiver and Matrix solutions, be installed in both UK and European backboxes, and can be powered locally or from compatible Blustream HDBaseT™ products.

FEATURES:

- Features 2 x HDMI & 1 x USB-C inputs with manual / auto source selection
- Advanced HDBaseT™ technology offering distribution of video and audio over a single CAT cable
- Supports 4K UHD video up to 40m (3840 x 2160 @30Hz 4:4:4, 4096 x 2160 @24Hz 4:4:4, and 4K @60Hz 4:2:0)
- Extends HDMI at 1080p up to a distance of 70m
- Supports all known HDMI audio formats including Dolby TrueHD, Dolby Atmos, Dolby Digital Plus and DTS-HD Master Audio transmission
- Input selection via front panel, IR and RS-232
- Programmable ON / OFF button utilising IR, RS-232 or CEC for control of display device at HDBaseT™ Receiver
- Supports 12V-48V PoC from compatible Blustream HDBaseT™ Receiver / Matrix products
- Bi-directional RS-232 pass through
- Supports IR pass-through to HDBaseT™ device
- Compatible with all Blustream HDBaseT™ Receiver / Matrix products*
- Magnetic faceplate surround allowing both UK & EU backbox compatibility
- HDCP 2.2 support

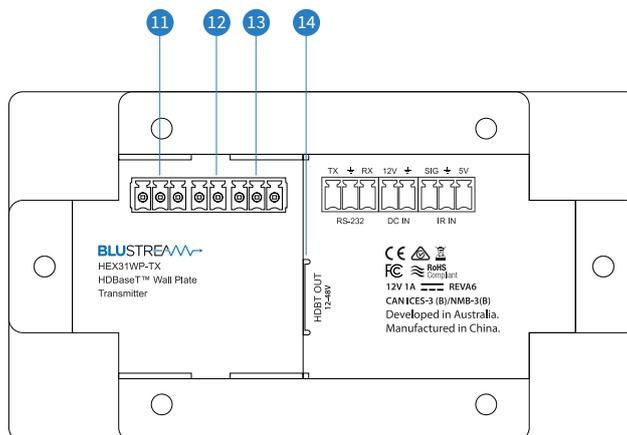
*Technical performance is subject to the features supported on the connected HDBaseT™ device

Front Panel Description



- 1 USB-C Input - Type C USB port to connect to USB-C source device
- 2 Output ON / OFF Button - Triggers the output on / off sequence (see Output On / Off section on next page)
- 3 HDBaseT™ link status indicator - Illuminates when the Transmitter is connected to the Receiver / Matrix successfully
- 4 IR Receiver - Built in IR sensor for IR pass through
- 5 HDMI Input 1 - Type A HDMI port to connect HDMI source device
- 6 HDMI Input 2 - Type A HDMI port to connect HDMI source device
- 7 Auto Switching Button - Press to change source, hold for 3 seconds to enable / disable auto signal sense switching.
- 8 HDMI Input 2 Indicator - Illuminates when HDMI 2 input is connected
- 9 USB Input Indicator - Illuminates when USB-C input is connected
- 10 HDMI Input 1 Indicator - Illuminates when HDMI 1 input is connected

Rear Panel Description



- 11 RS-232 - 3-pin phoenix connector for RS-232 pass through to / from compatible HDBaseT™ Receiver / Matrix products
- 12 12V DC Input - 2-pin phoenix connector to connect to Blustream 12V power supply (supplied)
- 13 IR Receiver Input - 3-pin phoenix connector to connect to Blustream IR Receiver (phoenix block supplied, IR Receiver not supplied)
- 14 HDBaseT™ Output - RJ45 HDBaseT™ port to connect to the HDBaseT™ input port of the compatible Blustream HDBaseT™ Receiver / Matrix device

Output On / Off Button

This product features an Output On / Off button that can turn on or off the display connected to the HDBaseT™ Receiver via CEC, IR or RS-232. The default setting for this is disabled and the function needs to be enabled prior to use. This button allows custom RS-232 and IR signals to be learned into the On and Off commands.

For further information please see the HEX31WP-TX User Manual - available to download from the Blustream website.

RS-232 Configuration

The RS-232 port is used for configuration / control of the product, as well as pass through of RS-232 commands to a compatible Blustream HDBaseT™ Receiver / Matrix device.

The default RS-232 communication settings are:

- Baud rate: 57600
- Data bit: 8
- Stop bit: 1
- Parity bit: none

For a complete RS-232 command list please see the HEX31WP-TX User Manual - available to download from the Blustream website.

EDID Control

EDID (Extended Display Identification Data) is a data structure that is used between a display and a source. This data is used by the source to find out what audio and video resolutions are supported by the display. By pre-determining the video resolution and audio format of the source and display device you can reduce the time needed for EDID hand shaking thus making switching quicker and more reliable.

Configuration of the EDID settings for each input can be achieved using the following RS-232 commands to specify the required EDID:

EDIDxxDFzz

Where xx = Input: 00 refers to ALL inputs; 01 = input 1 (HDMI 1); 02 = input 2 (HDMI 2); 03 = input 3 (USB-C)
zz = EDID as shown below

zz=00: HDMI 1080p@60Hz, Audio 2ch PCM	zz=11: HDMI 4K2K@30Hz, Audio 7.1ch PCM/DTS/DOLBY/HD
zz=01: HDMI 1080p@60Hz, Audio 5.1ch PCM/DTS/DOLBY	zz=12: HDMI 4K2K@60Hz 4:2:0 8 bit, Audio 2ch PCM
zz=02: HDMI 1080p@60Hz, Audio 7.1ch PCM/DTS/DOLBY/HD	zz=13: HDMI 4K2K@60Hz 4:2:0 8 bit, Audio 5.1ch PCM/DTS/DOLBY
zz=03: HDMI 1080i@60Hz, Audio 2ch PCM	zz=14: HDMI 4K2K@60Hz 4:2:0 8 bit, Audio 7.1ch PCM/DTS/DOLBY/HD
zz=04: HDMI 1080i@60Hz, Audio 5.1ch PCM/DTS/DOLBY	zz=15: DVI 1280x1024@60Hz, Audio None
zz=05: HDMI 1080i@60Hz, Audio 7.1ch PCM/DTS/DOLBY/HD	zz=16: DVI 1920x1080@60Hz, Audio None
zz=06: HDMI 1080p@60Hz/3D, Audio 2ch PCM	zz=17: DVI 1920x1200@60Hz, Audio None
zz=07: HDMI 1080p@60Hz/3D, Audio 5.1ch PCM/DTS/DOLBY	zz=18: DVI 1920x1200@60Hz, Audio 2ch
zz=08: HDMI 1080p@60Hz/3D, Audio 7.1ch PCM/DTS/DOLBY/HD	zz=19: Copy User EDID 1 - refer to User Manual for details
zz=09: HDMI 4K2K@30Hz, Audio 2ch PCM	zz=20: Copy User EDID 2 - refer to User Manual for details
zz=10: HDMI 4K2K@30Hz, Audio 5.1ch PCM/DTS/DOLBY	zz=21: EDID Pass through

Specifications

HEX31WP-TX

- Video Input Connectors: 2 x HDMI Type A, 19-pin, female, 1 x USB-C Type C
- Video Output Connectors: 1 x HDBaseT™ RJ45 connector
- RS-232 serial port: 1 x 3-Pin Phoenix connector
- IR Input port: 1 x 3-Pin Phoenix connector
- Product upgrade: 1 x Micro USB female
- Local power input: 1 x 2-Pin Phoenix connector
- Casing Dimensions (W x H x D): 136mm x 76mm x 44mm (without faceplate)
- Faceplate Dimensions (W x H x D): 146mm x 86mm x 6mm
- Backbox Mounting Depth: 40mm (minimum), 47mm (recommended)
- Shipping Weight: 1.0kg
- Operating Temperature: 32°F to 104°F (-5°C to +55°C)
- Storage Temperature : -4°F to 140°F (-25°C to +70°C)
- Power Supply: 12V/1A DC

NOTE: Specifications are subject to change without notice. Weights and dimensions are approximate.

Package Contents

HEX31WP-TX

- 1 x HEX31WP-TX
- 1 x 12V/1A DC Power Supply
- 1 x Magnetic Faceplate
- 1 x RS-232 Control Cable
- 1 x Quick Reference Guide

Maintenance

Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner or benzene to clean this unit.