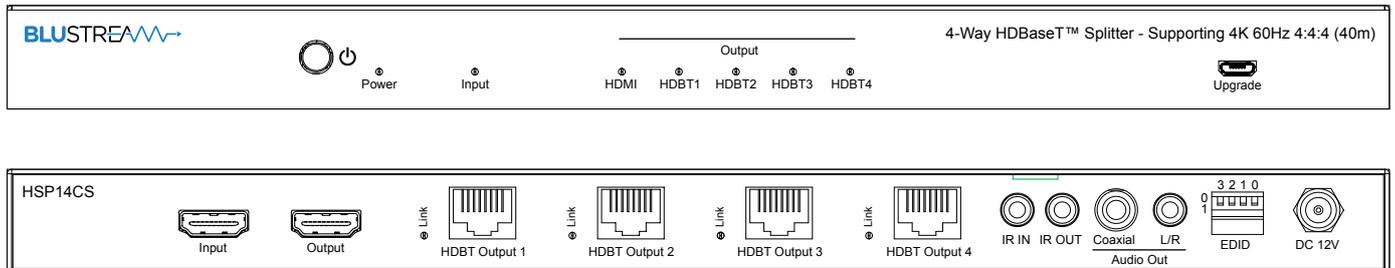


HSP14CS

Quick Reference Guide



Introduction

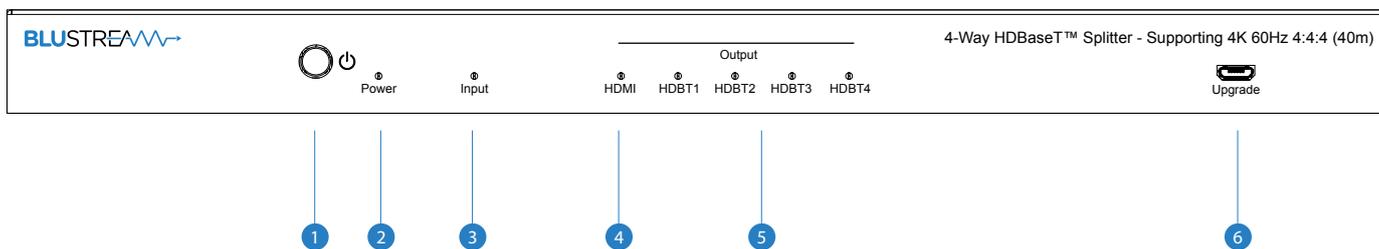
Our HSP14CS 4K HDBaseT™ CSC splitter distributes a single HDMI 2.0 4K 60Hz 4:4:4 source to four simultaneous HDBaseT™ outputs. The HSP14CS splitter utilises CSC technology to deliver HDMI, Bi-directional IR and PoH (PoE) up to lengths of 70m (40m 4K 60Hz 4:4:4) over a single CAT cable. The 4-Way splitter also features audio breakout, EDID management and HDMI loop out for integrating local displays or cascading to multiple devices.

KEY FEATURES

- Advanced HDBaseT™ technology offering uncompressed video and audio with zero latency
- Advanced Colour Space Conversion (CSC) supports HDMI 2.0 18Gbps specification including HDR
- Features 1x HDMI input that is replicated to 4x HDBaseT™ outputs
- Features 1x HDMI loop out for integrating local displays or cascading to multiple devices
- Supports 4K 60Hz 4:4:4 UHD video up to 40m
- Extends HDMI 1080p video up to 70m
- Supports all industry standard video resolutions including VGA-WUXGA and 480i-4K
- Supports all known HDMI audio formats including Dolby TrueHD, Dolby Atmos, Dolby Digital Plus and DTS-HD Master Audio transmission
- HDMI audio breakout to both analogue L/R audio and coaxial digital outputs concurrently
- Supports PoH (Power over HDBaseT™) to power compatible HDBaseT™ receivers
- Compatible with the following HDBaseT™ Blustream receivers - HEX70CS-RX (4K 60Hz 4:4:4), HEX70B-RX & HEX70ED-RX (4K 60Hz 4:2:0)
- Advanced EDID management
- HDCP 2.2 compliant

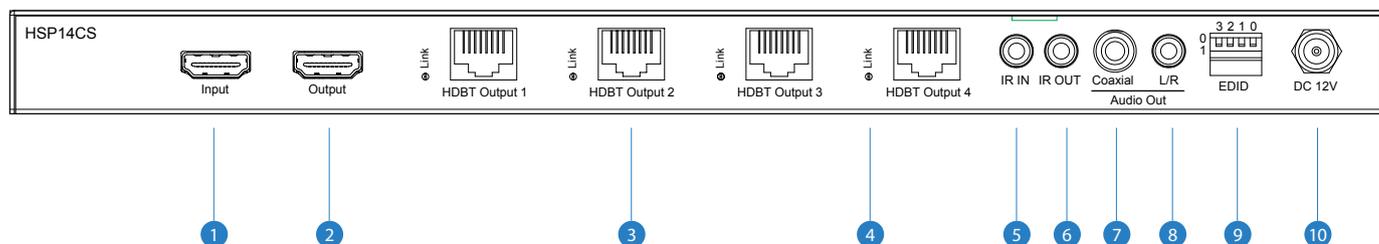
Panel Descriptions

Front Panel



- 1 Power button - press to power on / off the splitter
- 2 Power LED indicator - indicates if the unit is on or off
- 3 Input LED indicator - indicates if a source is attached and is active
- 4 HDMI output indicator - indicates if a HDMI output is attached and is active
- 5 HDBaseT™ output indicator - indicates if a HDBaseT™ receiver is attached and an active link is available on the output
- 6 Upgrade port

Rear Panel



- 1 HDMI input - connect to a HDMI source
- 2 HDMI output - connect to a HDMI display or additional HDMI distribution equipment
- 3 HDBaseT™ outputs - connect to HDBaseT™ receivers
- 4 HDBaseT™ link lights
- 5 IR input - 3.5mm stereo jack. Transmits IR to the zone HDBaseT™ receivers (displays)
- 6 IR output - 3.5mm mono jack. Connect to Blustream 5V IR emitter for source control from remote areas
- 7 Coaxial audio out - RCA connector, de-embedded audio from the HDMI input
- 8 L/R audio out - 3.5mm stereo jack, de-embedded audio from the HDMI input. Source input must be PCM 2ch audio for the analogue audio output to work. The HSP14CS does not down-mix 5.1ch audio signals.
- 9 EDID DIP switch - used for global EDID settings, see page 3
- 10 Power port - use supplied Blustream 12V adaptor to power the splitter

Understanding the Splitter / Receiver status lights

The Blustream splitter and HDBaseT™ extender solutions include status LED indicators on both the splitter and receiver products to show all connections are active and to help diagnose possible problems.

Understanding the status lights:-

Blustream HSP14CS splitter:

- The Yellow HDBaseT™ status link light will be off when the zone output has been turned off or there is a problem with the specific splitter output.
- The Yellow HDBaseT™ status link light will blink when the zone output is on and working
- The Green HDBaseT™ link light will blink if there is an unstable connection between the Blustream splitter and HDBaseT™ receiver
- The Green HDBaseT™ link light will be lit when there is an active HDBaseT™ receiver connected to the splitter
- The Green HDBaseT™ link light will be off when there is no connection with a HDBaseT™ receiver

Blustream HDBaseT™ receiver:

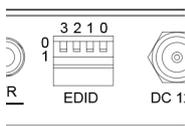
- The HDMI link light will be off when there is no connection with a display
- The HDMI link light will be on when there is an active connection with a display (NOTE - Not all HDBaseT™ RX feature a HDMI status LED)
- The HDBaseT™ link light will be off when there is no CAT cable/active HDBaseT™ connection on the RJ45 HDBaseT input
- The HDBaseT™ link light will blink if there is an unstable connection between the Blustream splitter and HDBaseT™ receiver
- The HDBaseT™ link light will be lit when a CAT cable is connected to the HDBaseT™ RJ45 output on the splitter and an active connection is achieved with the Blustream HDBaseT™ receiver.

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 need for EDID hand shaking thus making switching quicker and more reliable.

Configuration of HSP14CS splitter EDID settings is achieved by using EDID dip-switches located on the rear of the splitter - See below

Global EDID settings



Dip-switch position '0' = Off
 Dip-switch position '1' = On

DIP ON ▼/OFF ▲ SWITCHING POSITIONS				EDID TYPE
3	2	1	0	
OFF	OFF	OFF	OFF	1080p/2.0
OFF	OFF	OFF	ON	1080p/5.1
OFF	OFF	ON	OFF	1080p/7.1
OFF	OFF	ON	ON	1080i/2.0
OFF	ON	OFF	OFF	1080i/5.1
OFF	ON	OFF	ON	1080i/7.1
OFF	ON	ON	OFF	4K60Hz 4:2:0/4K30Hz 4:4:4/2.0
OFF	ON	ON	ON	4K60Hz 4:2:0/4K30Hz 4:4:4/5.1
ON	OFF	OFF	OFF	4K60Hz 4:2:0/4K30Hz 4:4:4/7.1
ON	OFF	OFF	ON	4K60Hz 4:4:4/2.0
ON	OFF	ON	OFF	4K60Hz 4:4:4/5.1
ON	OFF	ON	ON	4K60Hz 4:4:4/7.1
ON	ON	OFF	OFF	DVI 1280x1024
ON	ON	OFF	ON	DVI 1920x1080
ON	ON	ON	OFF	DVI 1920x1200
ON	ON	ON	ON	Copy Display EDID

Specifications

- Video input: 1x HDMI Type A, female
- Video output: 4x HDBaseT™ RJ45 connector, 1x HDMI Type A, female
- Audio output: 1x 3.5mm L/R analogue audio & 1x digital coaxial (RCA)
- PoH (Power over HDBaseT™) supplied to compatible Blustream HDBaseT™ receivers from the splitter
- IR input: 1x 3.5mm stereo jack
- IR output: 1x 3.5mm mono jack
- EDID: 4 pin dip-switch
- Mounting kit included
- Dimensions excl. connections (W x D x H): 287x145x23mm, without feet
- Shipping weight (Kit): 1.1 kg
- Power: 12V/5A DC, screw type connector
- Operating temperature: 32°F to 104°F (0°C to 40°C)
- Storage temperature: -4°F to 140°F (-20°C to 60°C)
- Compatible with (HDBaseT™ Receivers):
 - HEX70CS-RX (4K 60Hz 4:4:4 maximum output)
 - HEX70B-RX & HEX70ED-RX (4K 60Hz 4:2:0 maximum output)

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

Package Contents

- 1 x HSP14CS
- 1 x 12V/5A DC power supply
- 1 x IR emitter (IRE)
- 5 x IR receiver (IRR)
- 1 x Mounting kit
- 1 x User manual

Maintenance

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

Components inside this unit are not user serviceable. Do not remove the protective cover from the unit. Removing any panel from this product will invalidate the manufacturers warranty.

For the full Blustream HSP14CS User Manual please visit the download area of our website www.blustream.co.uk

Certifications

FCC NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION - changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CANADA, INDUSTRY CANADA (IC) NOTICES

This Class B digital apparatus complies with Canadian ICES-003.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

CORRECT DISPOSAL OF THIS PRODUCT

This marking indicates that this product should not be disposed with other household wastes. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmentally safe recycling.