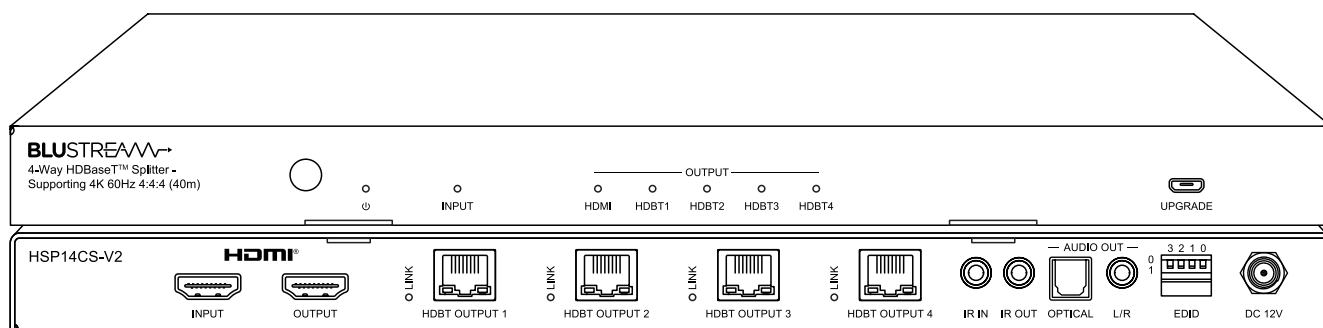




► HSP14CS-V2

User Manual

Thank you for purchasing this product.

For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.



Surge Protection Device Recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.



Eco Friendly Packaging

This product has been packaged with fully recyclable materials, including compostable bags. Please help us to help the environment.

Safety and performance notice

Do not substitute or use any other power supply other than approved Blustream power supplies.

Do not disassemble the HSP14CS-V2 for any reason. Doing so will void the manufacturer's warranty.

Contents

Introduction	03
Front Panel Description	04
Rear Panel Description	04
Terminating CAT Cable for use with HDBaseT™	05
Understanding the HDBaseT™ Status LED's	05
EDID Management	06
IR Control	07
Signal Generator	08
Update Firmware	09
Specifications	11
Package Contents	11
Maintenance	11
Communication Protocols and Commands	12
Certifications	15

Introduction

The HSP14CS-V2 4K HDBaseT™ CSC splitter allows a single HDMI 2.0 4K 60Hz 4:4:4 source to be distributed to four simultaneous HDBaseT™ outputs, delivering exceptional flexibility for single source distribution environments. Independent downscaling on each output ensures displays limited to lower video resolutions can receive optimised video signals, while compatible screens continue to display the native 4K UHD content.

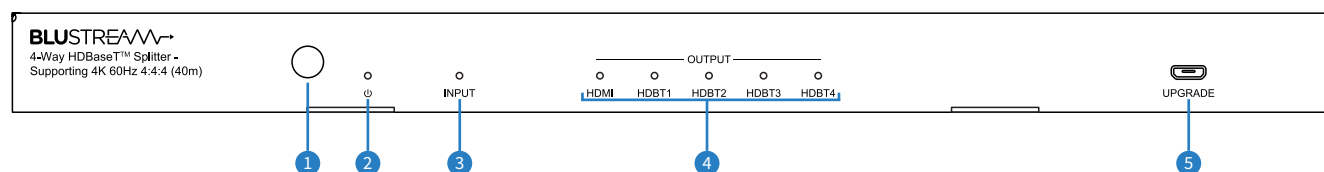
The unit extends HDMI video, bi-directional IR control, and PoC (Power over Cable) over a single CAT cable infrastructure, supporting transmission distances of up to 70m at 1080p, or 40m at 4K 60Hz 4:4:4.

Designed for professional installations, the splitter also includes integrated audio breakout, advanced EDID management, and an HDMI loop output for local display connection or seamless cascading to additional distribution devices.

FEATURES:

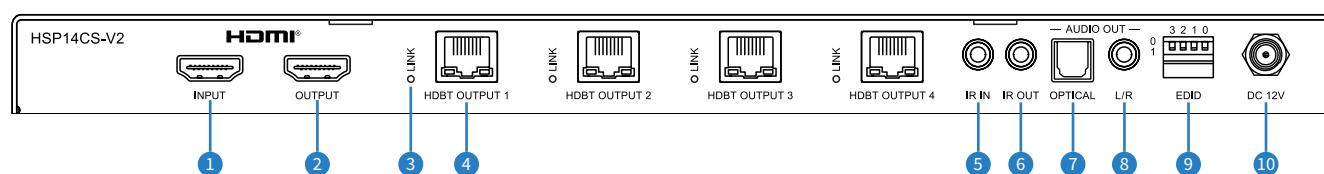
- Advanced HDBaseT™ technology offering distribution of video and audio over a single CAT cable
- Advanced Colour Space Conversion (CSC) supports HDMI 2.0 18Gbps specification including HDR
- Features a HDMI input that is replicated to 4 x HDBaseT™ outputs
- HDMI loop out for integrating local displays, or cascading to multiple devices
- HDBaseT™ outputs feature independent automatic downscaling of up to 4K 60Hz 4:4:4 video input to the following formats:
 - 1080p 60Hz (for screens that do not support 4K)
 - 4K 60Hz 4:2:0 (for screens that do not support full 4K 60Hz 4:4:4)**Please note:** Downscaling feature does not support 4K 4:2:2 input signals
- Supports 4K 60Hz 4:4:4 UHD video up to 40m
- Extends HDMI 1080p up to a distance of 70m
- Supports all industry standard video resolutions including VGA-WUXGA and 480i-4K
- Supports bitstream passthrough of multichannel surround sound including object-based audio formats in line with HDMI specifications
- HDMI audio breakout to both analogue audio and optical digital outputs concurrently
- Supports PoC (Power over Cable) to power compatible HDBaseT™ receivers
- Compatible with the following HDBaseT™ Blustream receivers:
 - HEX70CS-RX (4K 60Hz 4:4:4), recommended
 - HEX70SL-RX (4K 60Hz 4:2:0 max)
- HDCP 2.2 support

Front Panel Description



- ① Power Button
- ② Power LED — illuminated blue when on, illuminated red when off
- ③ Input LED — illuminated when a HDMI input is connected and active
- ④ Output LED — illuminated when a HDMI or HDBT output is connected and active
- ⑤ Upgrade and Serial Micro USB Port — used for serial control and firmware updating

Rear Panel Description

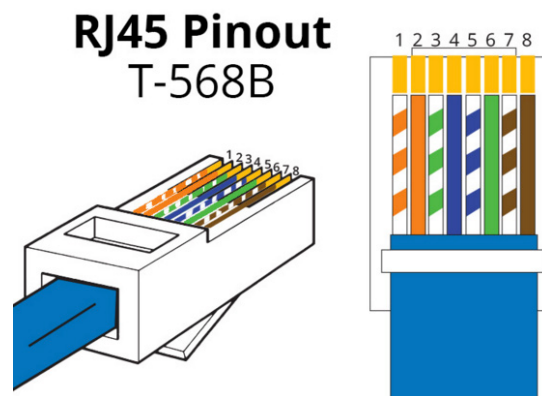


- ① HDMI Input
- ② HDMI Loop Output
- ③ HDBaseT™ Output 1-4 Link Light
- ④ HDBaseT™ Output 1-4
- ⑤ IR Input — 3.5mm stereo jack, transmits IR signal to the HDBaseT™ receivers
- ⑥ IR Output — 3.5mm mono jack, connect to Blustream 5V IR emitter to receive IR signal
- ⑦ Optical Audio Breakout — Toslink (S/PDIF)
- ⑧ L/R Analogue Audio Breakout — 3.5mm stereo jack
- ⑨ EDID DIP Switch — set global EDID
- ⑩ Power Supply Input — 12V/5A

Terminating CAT Cable for use with HDBaseT™

It is important that the interconnecting CAT cable between the Blustream HDBaseT products is terminated using the correct RJ45 pin configuration. The link CAT cable MUST be a 'straight' (pin-to-pin) CAT cable and it is advised that this is wired to the T568B wiring standard as this format is less prone to EMI (Electro-Magnetic Interference).

When installing CAT cables it is advised that you use the best possible CAT cable quality possible. HDMI distribution products will only work if used with CAT5e standard cable or above. Blustream recommends using a CAT6 (or better) cable for your installations, especially when running over longer distances, in areas of high EMI, or for 4K signal distribution.



Understanding the HDBaseT™ Status LEDs

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:

HSP14CS-V2

- 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 Management

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 HSP14CS-V2 EDID settings can be achieved by:

- 1 Using control commands via RS-232
- 2 Using the EDID dipswitches

RS-232:

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

EDID DF zz Set Input EDID To Default EDID:zz
 zz=00: HDMI 1080p@60Hz, Audio 2CH PCM (default)
 zz=01: HDMI 1080p@60Hz, Audio 5.1CH DTS/DOLBY
 zz=02: HDMI 1080p@60Hz, Audio 7.1CH DTS/DOLBY/HD
 zz=03: HDMI 1080i@60Hz, Audio 2CH PCM
 zz=04: HDMI 1080i@60Hz, Audio 5.1CH DTS/DOLBY
 zz=05: HDMI 1080i@60Hz, Audio 7.1CH DTS/DOLBY/HD
 zz=06: HDMI 1080p@60Hz/3D, Audio 2CH PCM
 zz=07: HDMI 1080p@60Hz/3D, Audio 5.1CH DTS/DOLBY
 zz=08: HDMI 1080p@60Hz/3D, Audio 7.1CH DTS/DOLBY/HD
 zz=09: HDMI 4K@30Hz 4:4:4, Audio 2CH PCM
 zz=10: HDMI 4K@30Hz 4:4:4, Audio 5.1CH DTS/DOLBY
 zz=11: HDMI 4K@30Hz 4:4:4, Audio 7.1CH DTS/DOLBY/HD
 zz=12: HDMI 4K@60Hz 4:2:0/4K@30Hz 4:4:4, Audio 2CH PCM
 zz=13: HDMI 4K@60Hz 4:2:0/4K@30Hz 4:4:4, Audio 5.1CH DTS/DOLBY
 zz=14: HDMI 4K@60Hz 4:2:0/4K@30Hz 4:4:4, Audio 7.1CH DTS/DOLBY/HD
 zz=15: HDMI 4K@60Hz 4:4:4, 8-bit, Audio 2CH PCM
 zz=16: HDMI 4K@60Hz 4:4:4, 8-bit, Audio 5.1CH DTS/DOLBY
 zz=17: HDMI 4K@60Hz 4:4:4, 8-bit, Audio 7.1CH DTS/DOLBY/HD
 zz=18: HDMI 4K@60Hz 4:4:4, HDR 10-bit, Audio 2CH PCM
 zz=19: HDMI 4K@60Hz 4:4:4, HDR 10-bit, Audio 5.1CH DTS/DOLBY
 zz=20: HDMI 4K@60Hz 4:4:4, HDR 10-bit, Audio 7.1CH DTS/DOLBY/HD
 zz=21: HDMI 4K@60Hz 4:4:4, HDR 12-bit, Audio 2CH PCM
 zz=22: HDMI 4K@60Hz 4:4:4, HDR 12-bit, Audio 5.1CH DTS/DOLBY
 zz=23: HDMI 4K@60Hz 4:4:4, HDR 12-bit, Audio 7.1CH DTS/DOLBY/HD
 zz=24: HDMI 4K@60Hz 4:4:4, HDR 10-bit (Inc DV), Audio 2CH PCM
 zz=25: HDMI 4K@60Hz 4:4:4, HDR 10-bit (Inc DV), Audio 5.1CH DTS/DOLBY
 zz=26: HDMI 4K@60Hz 4:4:4, HDR 10-bit (Inc DV), Audio 7.1CH DTS/DOLBY/HD
 zz=27: HDMI 4K@60Hz 4:4:4, HDR 12-bit (Inc DV), Audio 2CH PCM
 zz=28: HDMI 4K@60Hz 4:4:4, HDR 12-bit (Inc DV), Audio 5.1CH DTS/DOLBY
 zz=29: HDMI 4K@60Hz 4:4:4, HDR 12-bit (Inc DV), Audio 7.1CH DTS/DOLBY/HD
 zz=30: DVI 1280x1024@60Hz, Audio None
 zz=31: DVI 1920x1080@60Hz, Audio None
 zz=32: DVI 1920x1200@60Hz, Audio None
 zz=33: HDMI 1920x1200@60Hz, Audio 2CH PCM/6CH PCM
 zz=34: User EDID 1
 zz=35: User EDID 2
 zz=36: Copy HDMI OUT EDID
 zz=37: Copy HDBT OUT 1 EDID
 zz=38: Copy HDBT OUT 2 EDID
 zz=39: Copy HDBT OUT 3 EDID
 zz=40: Copy HDBT OUT 4 EDID

EDID DIP Switches:

To configure the global EDID for all inputs via the DIP switch, use the settings below.

Please note: EDID DIP switch settings will override and disallow any EDID settings configured via RS-232.

3	2	1	0	EDID Type
DIP Positions				
0	0	0	0	1080p@60Hz, 2ch PCM (default)
0	0	0	1	1080p@60Hz, 5.1ch PCM/DTS/DOLBY
0	0	1	0	1080p@60Hz, 7.1ch PCM/DTS/DOLBY/HD
0	0	1	1	4K@60Hz 4:2:0 / 4K@30Hz 4:4:4, 2ch PCM
0	1	0	0	4K@60Hz 4:2:0 / 4K@30Hz 4:4:4, 5.1ch PCM/DTS/DOLBY
0	1	0	1	4K@60Hz 4:2:0 / 4K@30Hz 4:4:4, 7.1ch PCM/DTS/DOLBY
0	1	1	0	4K@60Hz 4:4:4, 8-bit, 2ch PCM
0	1	1	1	4K@60Hz 4:4:4, 8-bit, 5.1ch PCM/DTS/DOLBY
1	0	0	0	4K@60Hz 4:4:4, 8-bit, 7.1ch PCM/DTS/DOLBY
1	0	0	1	4K@60Hz 4:4:4, 10-bit HDR, 2ch PCM
1	0	1	0	4K@60Hz 4:4:4, 10-bit HDR, 5.1ch PCM/DTS/DOLBY
1	0	1	1	4K@60Hz 4:4:4, 10-bit HDR, 7.1ch PCM/DTS/DOLBY
1	1	0	0	DVI 1920x1080@60Hz, Audio None
1	1	0	1	DVI 1920x1200@60Hz, Audio None
1	1	1	0	EDID pass-through (Copy from Output 1)
1	1	1	1	EDID Software

IR Control

Infrared (IR) control is available via the IR Control 3.5mm jack. This allows control from third-party control systems or direct control using an IR remote.

Please note: All Blustream-supplied IR cabling is rated for 5V operation.

IR-CAB - IR Cable 3.5mm Mono to 3.5mm (optional)

Blustream IR 3.5mm Mono (TS) to 3.5mm Stereo (TRS) Cable for linking third party control solutions to Blustream products

12V to 5V step down conversion

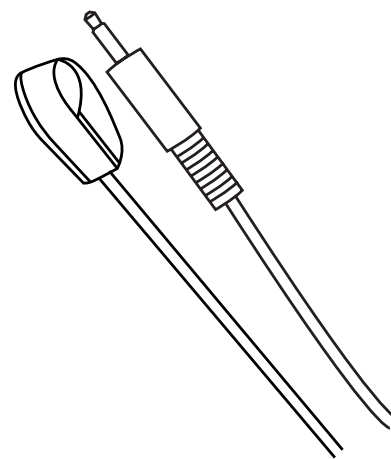
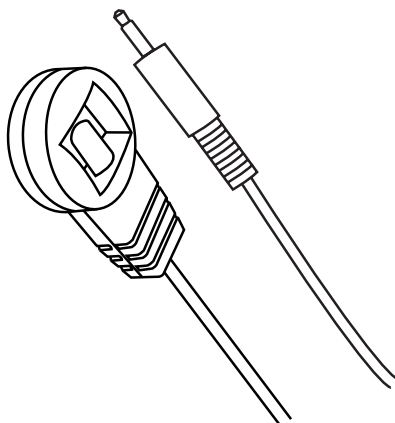
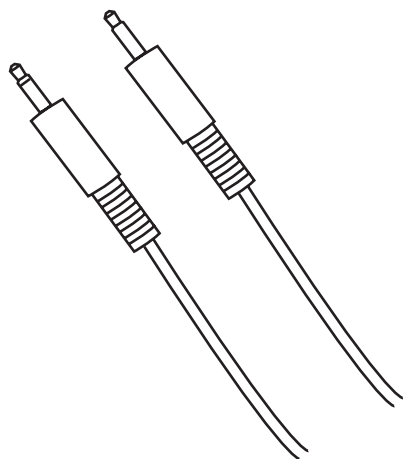
Please note: Cable is directional as indicated

IRR - IR Receiver Stereo 3.5mm Jack (included)

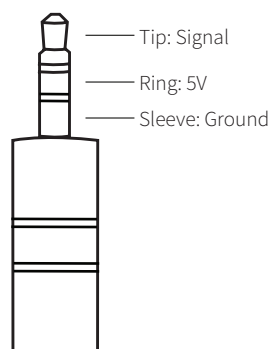
Blustream 5V IR Receiver 3.5mm stereo (TRS) jack to receive an IR signal and distribute through Blustream products

IRE - IR Emitter Mono 3.5mm Jack (included)

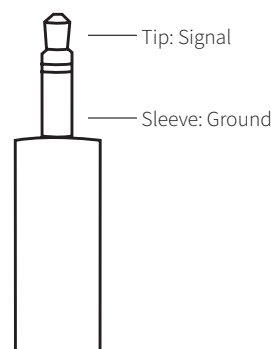
Blustream 5V IR Emitter 3.5mm mono (TR) jack to emit an IR signal for discreet IR control



IR Stereo (TRS) 3.5mm Pinout:



IR Mono (TS) 3.5mm Pinout:



Signal Generator

The HSP14CS-V2 features a built in signal generator. This can be used to test different video resolutions and to diagnose issues with displays by using the built in patterns.

Configuration of the signal generator settings for each output can be achieved using the following control commands:

OUT FR yy Set Output From Input:yy
yy=[02]: Internal Pattern

PATTERN xx yy Set Internal Resolution xx Pattern yy

xx=[01]: 4K60Hz
xx=[02]: 4K50Hz
xx=[03]: 4K25Hz
xx=[04]: 4K24Hz
xx=[05]: 1080P60Hz
xx=[06]: 480P60Hz
xx=[07]: 576P50Hz
yy=[01]: Color Bar
yy=[02]: Checkboard
yy=[03]: Strip
yy=[04]: Red
yy=[05]: Green
yy=[06]: Blue
yy=[07]: White
yy=[08]: Ramp
yy=[09]: Red ramp
yy=[10]: Green ramp
yy=[11]: Blue ramp
yy=[12]: PRBS
yy=[13]: Black

Update Firmware

The firmware of the HSP14CS-V2 can be updated using the Blustream Update Manager software and the micro USB upgrade port.

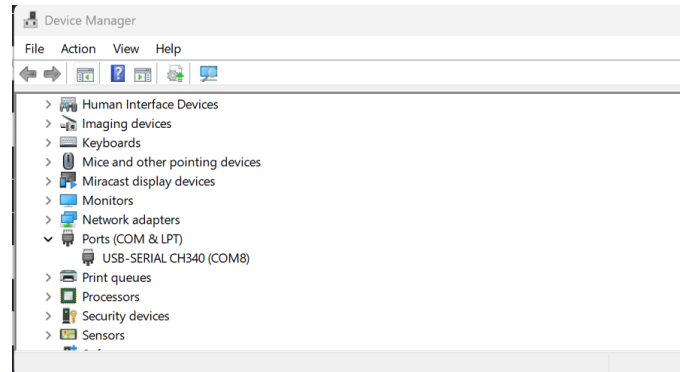
WARNING: Verify the correct firmware file for the HSP14CS-V2 is used during the update procedure. Do not disconnect the micro USB cable, disconnect power, or exit the Blustream Update Manager while the firmware update is in progress.

Identify COM port:

Connect the upgrade port of the HSP14CS-V2 to a Windows PC using a micro USB cable.

Power on the HSP14CS-V2.

Open Device Manager on the PC and identify the COM port assigned to the HSP14CS-V2.



Blustream Update Manager Configuration:

Open the Blustream Update Manager software.

Under the Connection section, configure the following settings:

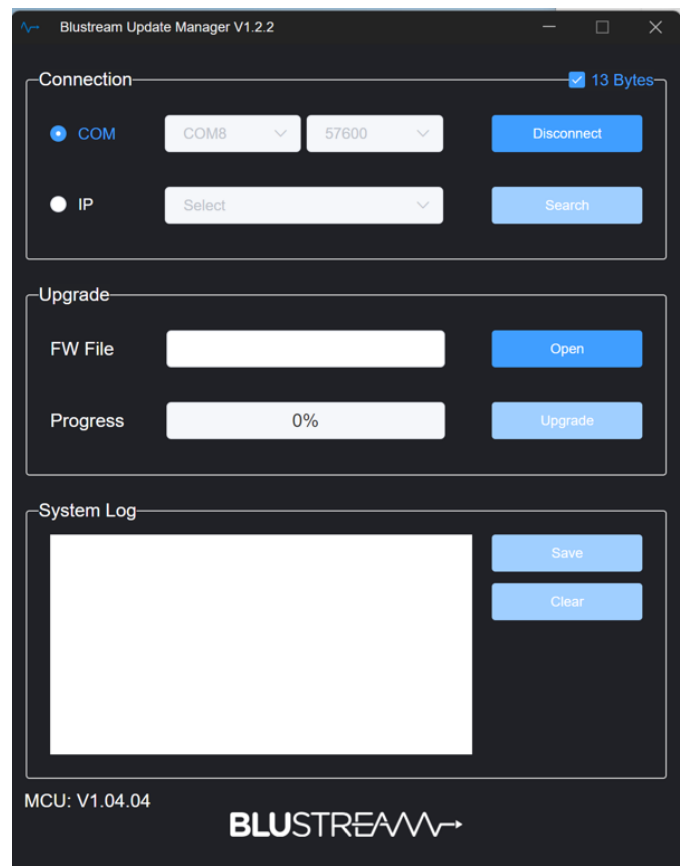
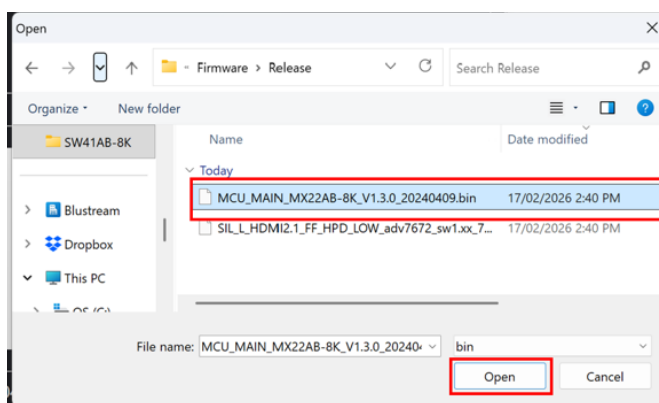
- Select COM
- Select the COM port identified in Device Manager
- Set Baud Rate to 57600
- Enable 13 Bytes

Select **Connect**.

Once communication with the HSP14CS-V2 has been established, the **Connect** button will change to **Disconnect**.

Under the Upgrade section, select **Open**.

Browse to the location of the HSP14CS-V2 firmware file, select the required file, and then select **Open**.



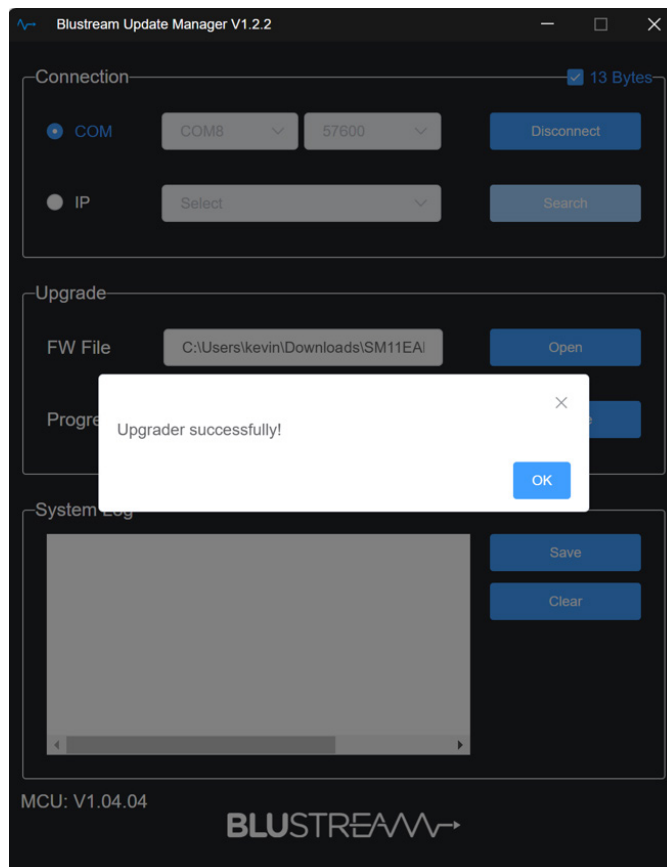
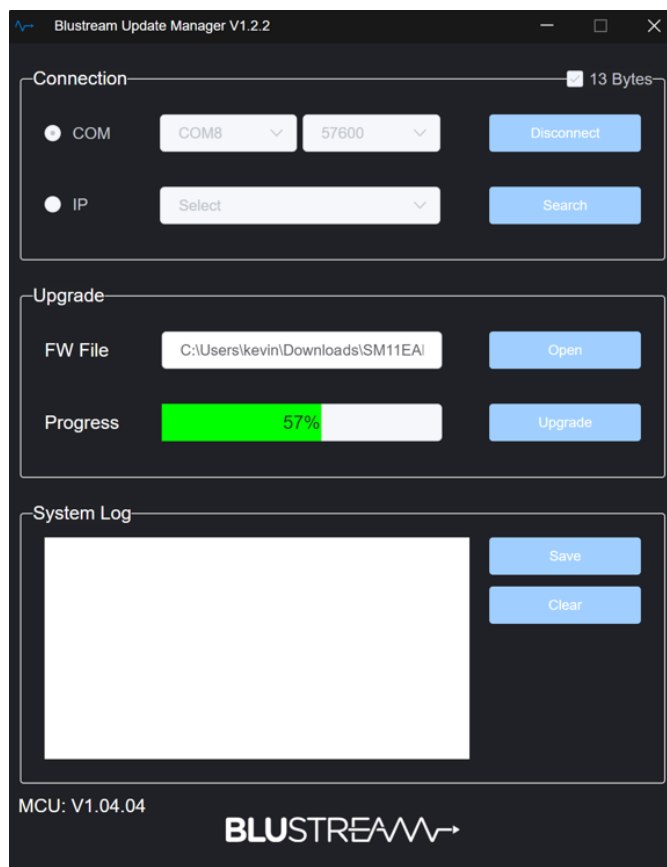
Updating the Firmware:

Select **Upgrade** to begin the firmware update.

The progress bar will display the status and completion percentage of the update.

Once the firmware update has completed successfully, a success message will be displayed.

Close the Blustream Update Manager to complete the firmware update process.



Specifications

- **Video Input Connectors:** 1 x HDMI Type A, 19-pin, female
- **Video Output Connectors:** 4 x HDBaseT™ RJ45, 1 x HDMI Type A, 19-pin, female
- **Audio Output Connectors:** 1 x Optical (S/PDIF), 1 x 3.5mm stereo jack (L/R)
- **EDID:** 4-pin DIP switch
- **Upgrade:** Micro USB, female - for f/w update only
- **IR Input ports:** 1 x 3.5mm stereo jack
- **IR Output ports:** 1 x 3.5mm mono jack
- **Mounting kit included**
- **Casing Dimensions (W x D x H):** 307mm x 144mm x 23mm
- **Dimensions Including Connections (W x D x H):** 307mm x 152mm x 31mm
- **Shipping Weight:** 1.1kg
- **Operating Temperature:** 32°F to 104°F (0°C to 40°C)
- **Storage Temperature:** -4°F to 140°F (-20°C to 60°C)
- **Power Supply:** 12V/5A DC, screw barrel

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

Package Contents

- 1 x HSP14CS-V2
- 1 x 12V/5A DC power supply
- 1 x IRE1 - IR emitter (5V)
- 5 x IRR - IR receiver (5V)
- 1 x Mounting kit
- 1 x Quick Reference Card

Maintenance

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

Communication Protocols and Commands

The HSP14CS-V2 can be controlled with control commands via serial (RS-232) via the micro USB port.

The default RS-232 communication settings are:

- **Baud rate:** 57600
- **Data bits:** 8
- **Stop bits:** 1
- **Parity:** none
- **Control Character:** CR+LF (Carriage Return 0x0D \r + Line Feed 0x0A \n)

The following pages list all available control commands.

Commonly Used Serial Commands:

There are several commands that are commonly used for control and testing:

STATUS	Status will give feedback on the switcher such as outputs on, type of connection, etc.
PON	Power on
POFF	Power off
OUTxxON/OFF	Turn output on or off Example: OUT02ON (This would set HDBT output 1 to on)
EDIDDFzz	Set the EDID for the input Example: EDIDDF37 (This would copy the EDID from HDBT output 1)

Common Mistakes:

- Control Character
 - Serial terminal applications and control software vary in how they handle command termination. Some applications automatically append a Carriage Return CR and/or Line Feed LF character when transmitting a command. Other applications transmit the command string exactly as entered, requiring control characters to be added manually.
 - Blustream products require a Carriage Return (CR, 0D, \r) + Line Feed (LF, 0A, \n) at the end of each serial command. Commands that are not terminated with a CR+LF character will not be recognized.
 - Before troubleshooting serial communication issues, confirm how the application handles command termination and ensure a CR and LF character is appended to every transmitted command.
- Spaces
 - Blustream commands do not require space between commands unless specified. There may be some applications that require spacing in order to work.
 - How the string should look is as follows: OUTON
 - How the string may look if spaces are required: OUT{Space}ON
- Baud rate or other serial protocol settings not correct

Communication Protocols and Commands (continued)

COMMAND	ACTION
?	Print Help Information
HELP	Print Help Information
STATUS	Print System Status And Port Status
FWVER	Print All Software Version
UPTIME	Print System Uptime
TEMP	Print System Temperature
PON	Power On, System Run On Normal State
POFF	Power Off, System Run On Power Save State
IR 5V	Set System IR Is 5V Power Supply Infrared Receiver
IR 12V	Set System IR Is 12V Power Supply Infrared Receiver
KEY ON/OFF	Set System KEY Control On Or Off
LED xx yy	Set Front Panel LEDs Light Up Time xx=PON: When Device Is Powered On xx=POFF: When Device Is Powered Off yy=OFF: Set Power LED To Always Off yy=15: Set Front Panel LEDs To Auto Turn Off After 15sec yy=30: Set Front Panel LEDs To Auto Turn Off After 30sec yy=60: Set Front Panel LEDs To Auto Turn Off After 60sec yy=ON: Set Front Panel LEDs To Always On
RESET	Reset System To Default Setting
REBOOT	Set System Reboot
OUT xx ON/OFF	Set Output:xx On Or Off xx=00: Select All Outputs xx=[01]: HDMI Out xx=[02]: HDBT Out 1 xx=[03]: HDBT Out 2 xx=[04]: HDBT Out 3 xx=[05]: HDBT Out 4
OUT FR yy	Set Output From Input:yy yy=[01]: HDMI Input yy=[02]: Internal Pattern
PATTERN xx yy	Set Internal Resolution xx Pattern yy xx=[01]: 4K60Hz xx=[02]: 4K50Hz xx=[03]: 4K25Hz xx=[04]: 4K24Hz xx=[05]: 1080P60Hz xx=[06]: 480P60Hz xx=[07]: 576P50Hz yy=[01]: Color Bar yy=[02]: Checkboard yy=[03]: Strip yy=[04]: Red yy=[05]: Green yy=[06]: Blue yy=[07]: White yy=[08]: Ramp yy=[09]: Red ramp yy=[10]: Green ramp yy=[11]: Blue ramp yy=[12]: PRBS yy=[13]: Black

COMMAND	ACTION
EDID DF zz	Set Input EDID To Default EDID:zz zz=00: HDMI 1080p@60Hz, Audio 2CH PCM (default) zz=01: HDMI 1080p@60Hz, Audio 5.1CH DTS/DOLBY zz=02: HDMI 1080p@60Hz, Audio 7.1CH DTS/DOLBY/HD zz=03: HDMI 1080i@60Hz, Audio 2CH PCM zz=04: HDMI 1080i@60Hz, Audio 5.1CH DTS/DOLBY zz=05: HDMI 1080i@60Hz, Audio 7.1CH DTS/DOLBY/HD zz=06: HDMI 1080p@60Hz/3D, Audio 2CH PCM zz=07: HDMI 1080p@60Hz/3D, Audio 5.1CH DTS/DOLBY zz=08: HDMI 1080p@60Hz/3D, Audio 7.1CH DTS/DOLBY/HD zz=09: HDMI 4K@30Hz 4:4:4, Audio 2CH PCM zz=10: HDMI 4K@30Hz 4:4:4, Audio 5.1CH DTS/DOLBY zz=11: HDMI 4K@30Hz 4:4:4, Audio 7.1CH DTS/DOLBY/HD zz=12: HDMI 4K@60Hz 4:2:0/4K@30Hz 4:4:4, Audio 2CH PCM zz=13: HDMI 4K@60Hz 4:2:0/4K@30Hz 4:4:4, Audio 5.1CH DTS/DOLBY zz=14: HDMI 4K@60Hz 4:2:0/4K@30Hz 4:4:4, Audio 7.1CH DTS/DOLBY/HD zz=15: HDMI 4K@60Hz 4:4:4, 8-bit, Audio 2CH PCM zz=16: HDMI 4K@60Hz 4:4:4, 8-bit, Audio 5.1CH DTS/DOLBY zz=17: HDMI 4K@60Hz 4:4:4, 8-bit, Audio 7.1CH DTS/DOLBY/HD zz=18: HDMI 4K@60Hz 4:4:4, HDR 10-bit, Audio 2CH PCM zz=19: HDMI 4K@60Hz 4:4:4, HDR 10-bit, Audio 5.1CH DTS/DOLBY zz=20: HDMI 4K@60Hz 4:4:4, HDR 10-bit, Audio 7.1CH DTS/DOLBY/HD zz=21: HDMI 4K@60Hz 4:4:4, HDR 12-bit, Audio 2CH PCM zz=22: HDMI 4K@60Hz 4:4:4, HDR 12-bit, Audio 5.1CH DTS/DOLBY zz=23: HDMI 4K@60Hz 4:4:4, HDR 12-bit, Audio 7.1CH DTS/DOLBY/HD zz=24: HDMI 4K@60Hz 4:4:4, HDR 10-bit (Inc DV), Audio 2CH PCM zz=25: HDMI 4K@60Hz 4:4:4, HDR 10-bit (Inc DV), Audio 5.1CH DTS/DOLBY zz=26: HDMI 4K@60Hz 4:4:4, HDR 10-bit (Inc DV), Audio 7.1CH DTS/DOLBY/HD zz=27: HDMI 4K@60Hz 4:4:4, HDR 12-bit (Inc DV), Audio 2CH PCM zz=28: HDMI 4K@60Hz 4:4:4, HDR 12-bit (Inc DV), Audio 5.1CH DTS/DOLBY zz=29: HDMI 4K@60Hz 4:4:4, HDR 12-bit (Inc DV), Audio 7.1CH DTS/DOLBY/HD zz=30: DVI 1280x1024@60Hz, Audio None zz=31: DVI 1920x1080@60Hz, Audio None zz=32: DVI 1920x1200@60Hz, Audio None zz=33: HDMI 1920x1200@60Hz, Audio 2CH PCM/6CH PCM zz=34: User EDID 1 zz=35: User EDID 2 zz=36: Copy HDMI OUT EDID zz=37: Copy HDBT OUT 1 EDID zz=38: Copy HDBT OUT 2 EDID zz=39: Copy HDBT OUT 3 EDID zz=40: Copy HDBT OUT 4 EDID
EDIDSAVE xx	Load The Custom External EDID From USB, Then Save It Into Slot xx xx=34: User EDID 1 xx=35: User EDID 2
LOOPOUT SCALING yy	Set Loopout Video Mode yy yy=[01]: Set Loopout Port Video Mode Bypass yy=[02]: Set Loopout Port Video Mode Force_1080p yy=[03]: Set Loopout Port Video Mode Auto (Match_TV)

Communication Protocols and Commands (continued)

COMMAND	ACTION
OUT xx MUTE ON/OFF	Set Output:xx Mute On Or Off xx=00: Select All Audio Breakout xx=[01]: Optical Out xx=[02]: L/R Analogue Out

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.

Canada, avis d'Industry Canada (IC)

Cet appareil numérique de classe B est conforme aux normes canadiennes ICES-003.

Son fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil ne doit pas causer d'interférence et (2) cet appareil doit accepter toute interférence, notamment les interférences qui peuvent affecter son fonctionnement.

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.





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