BLUSTREAM

HDMI DISTRIBUTION WITHOUT COMPROMISE

Professional AV Solutions

PRODUCT BROCHURE

AUTUMN 2020

HDMI™ HDBT™ Dolby dts Dante

Award Winning
AV DISTRIBUTION SOLUTIONS

www.blustream.co.uk

Who are Blustream?

Blustream is the audio visual industry's award winning option for advanced HDMI distribution. Our products have been designed and engineered by a global team of AV specialists with over 50 years experience. Research highlighted the market need for an AV distribution brand that could deliver both industry leading performance and most importantly, reliability. This has resulted in Blustream developing a range of HDBaseT™, Video over IP and HDMI solutions that deliver seamless AV integration within any installation environment.

As an official HDMI adopter and HDBaseT™ alliance member, Blustream is firmly positioned at the forefront of this advanced technology. Through integration of the latest pioneering HDBaseT™ and Video over IP chipsets our engineers have developed the world's most innovative range of AV distribution products.

Blustream formed Melbourne, Australia	**Connected Award** Four awards for Technology implementation	**Inception of Video Over IP technology** Technology development	**Official Dolby® and DTS™ Licensee partners**	**First to market HDBaseT™ solutions supporting 4K 18Gbps** Technology development	**Launch of versatile 16 x 16 modular HDBaseT™ Matrix**	**Introduction of Dante® networked audio solutions**
2014	**2015**	**2016**	**2017**	**2018**	**2019**	**2020**
Blustream becomes official HDBaseT™ adopter	**Commencement of EMEA operation** Nottingham,UK		**Sales and Technical support office opened** Madrid, Spain	**Release of 2nd generation Video Over IP solution**	**Delivered certified HDBaseT™ training to over 200 industry partners**	**Launch of Advanced Multi-Format Presentation switches**

HDMI™ HIGH-DEFINITION MULTIMEDIA INTERFACE   HDBT™   Dolby   dts   Dante®

AVIXA Member   CEDIA™ MEMBER

BLUSTREAM

Global AV Distribution

Blustream now has 46 distributors in 30 countries, supported by a global network of sales, R&D, training and support offices.

Blustream UK

Blustream's European headquarters are located in Nottingham, UK. Sales, R&D, service, support and warehousing for the EMEA region.

Manufacturing HQ

China / Taiwan based manufacturing HQ

OEM Distribution HQ

Development and supply of OEM products to major international brands

Blustream Australia

Blustream is Australian owned, HQ is in Melbourne, Australia. Sales, R&D, service, support and warehousing for the APAC and Oceana regions.

European Support Office

European office in Madrid, Spain. Training and support centre for European partners.

Why choose Blustream?

- UK based warehousing and product development

- Products supported by a 2 year warranty (extended warranty available)

- Industry leading support processes with no quibble advanced replacement policy

- Next day delivery available throughout EMEA

- Industry leading training and technical support services

- Fully accredited licensee of HDMI, HDBaseT™, Dolby®, DTS™ and Dante® technology platforms

- Extensive roadmap for product development

- Driver integration available for all major third party control systems

- Key player in the rapidly evolving Video over IP platform

- Web GUI & App control available on the majority of matrix and IP systems

SEAMLESS
AV DISTRIBUTION

About HDBaseT™

Blustream products have an unrivalled ability to seamlessly distribute AV signals throughout your smart home or commercial premises. Utilising the latest HDBaseT™ chipsets, our engineers have developed pioneering solutions that push the boundaries of performance whilst maintaining ultimate reliability.

HDBaseT™ is the revolutionary technology that enables AV and control signals to be distributed over long distances around a property. The following lists all the integrated signals that can be distributed by HDBaseT™ over a single CAT cable network.

1. Video - 4K UHD video up to 18Gbps (4K 60Hz 4:4:4)
2. Audio - Any standard digital audio format including Dolby Atmos and DTS:X
3. Control - Various control signals including 2-way IR, CEC and RS-232
4. Ethernet - Expand wired internet coverage throughout the home
5. Power over Cable (PoC) - Deliver power directly to HDBaseT™ transmitter
   or receiver product, removing the need for additional power supplies

HDBT™
ASE

BLUSTREAM

SUITABLE FOR A RANGE OF
Commercial Applications

Seamless integration for huddle and meeting spaces

Blustream have a range of solutions that integrate HDMI, DisplayPort™, USB-C, VGA and microphone input with audio mixing.

These signals can then be distributed via HDMI or HDBaseT™. With the added ability of matrix video outputs, audio breakout and volume control, Blustream presentation switchers make AV integration easy within any boardroom or classroom environment.

Deliver the ultimate entertainment experience

Blustream products make it simple to distribute AV signals to multiple displays. Utilising a single CAT6 cable infrastructure, our solutions transmit 4K resolutions to multiple displays with ease.

Blustream products offer unrivalled levels of performance and reliability. Our products have all been tested and approved for compatibility with all recognised manufacturers of TV displays and AV hardware.

UNDERSTANDING THE
Technology

4K 60Hz 4:2:0 — The 4K data rate varies depending on the requirement for differing frame rates, colour depths, and colour gamuts. 4K 60Hz 4:2:0 requires 10.2Gbps of data transfer capability.

4K 60Hz 4:4:4 — The 4K data rate varies depending on the requirement for varying frame rates, colour depths, and colour gamuts. 4K60 4:4:4 requires the full 18Gbps data transfer speed required to get the very best 4K image across your system.

192kHz SAMPLE RATE — When an audio signal is converted from the analogue to the digital domain, it has to be sampled to convert the analogue wave to digital data. 192kHz is an example of a very high sample rate for excellent audio reproduction.

ARC — Audio Return Channel (ARC) works by transmitting the audio signal the opposite way down a HDMI cable, connecting your display directly to an amplifier for better sound reproduction.

AUDIO BREAKOUT — The audio from a digital AV source, such as a HDMI, DisplayPort or USB-C device, can be extracted from the AV data to connections for use with external products such as audio distribution systems, amplifiers and mixers.

AUDIO DELAY — Audio Delay can slow the delivery of certain audio on specific connections. Sometimes it may be necessary to delay an audio signal to be in sync with a video signal taking an alternate path through a system.

AUDIO DOWNMIXING — Down-mixing is a process where multichannel audio signals such as Dolby / DTS are converted to a standard two channel stereo signal. Combining multiple audio channels onto two channels for stereo devices to be able to use.

AUDIO ROUTING — Audio signals to be routed through a distribution system independently of other signal types. Giving users the option to maintain or fix a route, regardless of other signals routing.

AUTO SWITCHING — Upon detection of a trigger, a product can automatically select the input on which the trigger is activated. A product can trigger on the detection of HDMI 5V and swap to this HDMI input when a video source is connected.

CSC — Colour Space Conversion reduces the data rate of a HDMI signal by converting the colour space from 4:4:4 or 4:2:2 to a lower format. This gives the ability to transfer resolutions with data speeds up to 18Gbps over HDBaseT™.

DisplayPort — DisplayPort shares many features with HDMI, such as 4K video support, and is common on some manufacturers laptops / computers.

dragand droptv — With Blustream Multicast systems that make use of an ACM200 Advanced Control Module, Drag and Drop TV provides a simple, graphical way to control a Blustream Multicast Video over IP system.

EDID MANAGEMENT — When a digital AV source is connected to a digital input, EDID information is exchanged between devices to enable maximum compatibility. This information can be controlled to gain desired behaviours from video source devices.

SMART EDID — Smart EDID function automatically limits EDID to within the HDBaseT™ specification to improve compatibility between source and display.

HDBT — HDBaseT™ transmits converged uncompressed full HD digital video, audio, 100 BaseT Ethernet, Power-over-Ethernet and various control signals through a single Cat5e / 6 / 7 cable over distances of up to 150 metres.

HDCP 2.2 — HDCP 2.2 is the next generation of copy protection required to allow the playback of the latest 4K source media.

HDMI 2.0 — Released in September of 2013, the HDMI 2.0 specification is a list of features that HDMI 2.0 product can or should have. The most significant of which was the increase to 18Gbps of bandwidth for AV signals.

HDR — HDR (or High Dynamic Range) expands the ability of a display to show a wider and richer range of colours, much brighter whites, and much darker blacks.

IR LEARNING

Where a Blustream product has the ability to learn, store and send out an infrared control code, the product can be used to learn the IR signal from the original remote control.

IR ROUTING

Infrared signals to be routed through a distribution system independently of other signal types. Giving users the option to maintain or fix a route, regardless of other signals routing.

CEC CONTROL

Consumer Electronic Control commands can be used to operate some HDMI TV's and source devices. These control commands are sent over a HDMI or HDBaseT™ connection to the device, with no need for additional control cabling.

SMART SCALING

Where a 1080p or 4K 60 4:2:0 screen is detected, a 4K 60 4:4:4 video signal is automatically downscaled to the appropriate matching resolution.

KVM

KVM (Keyboard, Video, Mouse) allows for a USB connection through the existing video / audio infrastructure to allow for USB control of a PC / CCTV NVR from a remote location.

TILING

Blustream tiling product is able to take multiple video inputs and overlay them onto a display in any arrangement.

LAN

Local Area Network can be passed along or through certain Blustream product, usually at 10/100 speeds. Allowing a home or business network to be extended over the same category cable in use for HDBaseT™ for example.

USB-C

USB-C is a port type that can carry video signals from a device such as laptop or mobile phone equipped with the connector. It shares video features with HDMI and DisplayPort™.

LINE LEVEL VOLUME CONTROL

Pre-amp line level volume control allows for the volume of an audio output to be altered using the Web GUI or serial commands for the associated product.

VIDEO IP OVER

Video over IP - distribute resolutions up to 4K HDR over an IP infrastructure with visually lossless reproduction, minimal latency, fully flexible I/O structure, and virtually limitless cabling distances.

MIC INPUT

Microphone inputs on Blustream product support MIC or line level signals, as well as 48V phantom power. Perfect to allow a wide range of microphone hardware and subsequent audio to be integrated directly into the product.

VIDEO RETURN

A 1080p AV signal can be returned from a HDBaseT™ receiver device to a HDBaseT™ transmitter device using the HDBaseT™ 3.0 specification.

PIP PICTURE IN PICTURE

Picture in Picture allows for a secondary source to be overlayed onto a primary video feed enabling the user to watch simultaneous feeds on one screen.

VIDEO SCALING

Our video scaling products allow for systems with differing video resolution screens to be sent the required signal to show the very best output.

PoC

Blustream extenders and matrices feature PoC. This feature allows you to power the remote HDBaseT™ transmitters or receivers via the CAT cable, removing the need for multiple power supplies.

VIDEO WALL

A combination of multiple screens can be made into an array for the viewing of one large media image across multiple screens.

PoE

Power over Ethernet is the delivery of a power supply to a network connected device via the same cable it uses for its Ethernet data connection.

WEB GUI GRAPHICAL USER INTERFACE

The new Blustream products feature a Graphical User Interface via an in-built web-server. This feature allows users to set-up and control their matrix from a mobile device or computer connected to the same network.

RS-232 ROUTING

RS-232 signals to be routed through a distribution system independently of other signal types. Giving users the option to maintain or fix a route, regardless of other signals routing.

WIRELESS PRESENTATION

Where a product supports Apple Airplay or Miracast, a user is able to wirelessly connect a compatible device to display its output. Most common on mobile devices. Enabling screen sharing without the need for a cable.

SEAMLESS SWITCHING

When changing between inputs on a product, such as HDMI, Displayport™ or USB-C; switching of the video on screen is instant with no flashing or loss of picture between the video being switched from and the video being switched to.

ZERO LATENCY

Many of our products require zero processing time for a video / audio signal to be distributed through an extended infrastructure.

HDMI™ HIGH-DEFINITION MULTIMEDIA INTERFACE | HDBT™ | Dolby | dts | Dante

A New Age

OF VIDEO DISTRIBUTION

4K UHD VIDEO OVER IP

IP200UHD-TX/RX - 4K UHD Video Over IP

Multicast UHD from Blustream delivers virtually latency free distribution of HDMI video over a 1Gb Network switch. Using visually lossless compression technology, Multicast delivers HDMI, IR, RS-232, USB / KVM, and CEC up to lengths of 100m over a single CAT cable. The beauty of Multicast is its flexibility and ease of installation. The industry has been requesting a video over IP solution that can be installed in minutes and without the need for any networking qualifications. Multicast UHD has been developed in line with these objectives and is delivering a new era in advanced video distribution.

Key Features

- IP200 hardware features USB / KVM distribution and audio breakout on the transmitter
- 'Quick set-up wizard' which allows basic product installation and configuration in just seconds without the need of a computer or configuration software
- No need for knowledge of networks or creating VLAN's

- Product supports 4K UHD, including HDR up to lengths of 100m
- Virtually latency free (1 frame) delivering flawless quality
- Built-in video scaler in the Multicast receiver allows each display to playback its optimal quality video

Matrix distribution
with unlimited configuration options
(Requires 1GB network switch)

Video wall presentation
(Requires 1GB network switch)

MULTICAST UHD
OPERATIONAL MODES

One-to-one
HDMI extender
(No network switch required)

One-to-many
HDMI distribution
(No network switch required)

ACM200 - Advanced Control Module

The ACM200 includes a web interface for control and configuration of the Multicast system and features Drag and Drop TV source selection with video preview and independent routing of Video, Audio, IR, RS-232, USB / KVM, and CEC. Pre-built Blustream product drivers simplify Multicast product installation and negate the need for an understanding of complex network infrastructures to gain control.

Key Features

> Web interface for configuration and control of the Blustream Multicast system
> Intuitive Drag and Drop TV source selection with video preview feature for active monitoring of system status
> Advanced signal management for independent routing of Video, Audio, IR, RS-232, USB / KVM, and CEC
> Auto system configuration
> RS-232 integration for control of Multicast system
> IR integration for control of Multicast system
> 3rd Party drivers available for major control brands

Drag and Drop TV is the visually simple and practical way to control your Multicast UHD over IP system. With virtually no set up or configuration required its the easy way to deliver intuitive switching control without the added cost of a dedicated control system.

> Available from any device connected to the network that has a web browser
> Preview display showing live screen grabs of the HDMI signal

RSU-6RU

The unit comes with 8 pull-out vertical ventilated shelves suitable for mounting any of our Blustream Transmitter or Receiver products as well as any smaller pieces of AV equipment.

RSU-2RU

Our RSU-2RU Multicast rack mount solution has been designed to compliment our range of Blustream Multicast products. The shelf is designed to mount 4 x Transmitter or Receiver units and comes with all necessary mounting hardware.

⊙HDBT™ SUPPORTING
4K 18Gbps
60Hz 4:4:4

## HMXL44CS-KIT - 4x4 HDBaseT™ Matrix Kit

70m HDBaseT™ Matrix Kit Supporting 4K 60Hz 4:4:4 (40m) - Includes 4 x HDBaseT™ Receivers

Key Features

- Advanced HDBaseT™ technology offering CSC with zero latency
- Features 4x HDMI inputs which can be independently routed to 4 x HDBaseT™ outputs
- Output 1 features simultaneous HDMI and HDBaseT™ output
- HDBaseT™ output 1 features auto 4K scaling to a lower 4K format or 1080p where a legacy screen is detected
- Supports bi-directional IR and RS-232 on all HDBaseT™ outputs
- Supports PoC (Power over Cable) to power supplied HDBaseT™ receivers

- Extends HDMI up to a distance of 70m over single CAT cable
- Supports 4K UHD video up to 40m (3840x2160 @60Hz 4:4:4)
- Supports 4K UHD video up to 40m (3840x2160 @60Hz 4:2:2 including HDR)
- HDCP 2.2 compliant
- Web interface module for control and configuration of Matrix
- Advanced EDID management
- 3rd Party drivers available for major control brands

Example Schematic
HMXL44CS-KIT
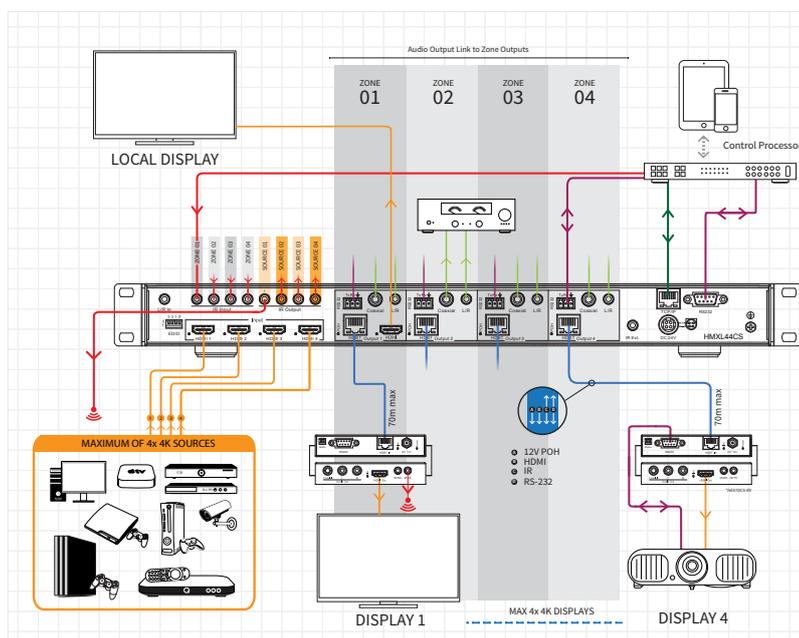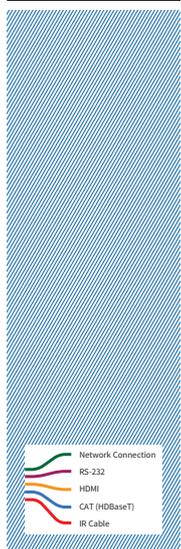
HDBaseT™ CSC Extender Set

HDBaseT™ Extender Set Supporting HDMI 2.0 4K 60Hz 4:4:4

Models & Description

HEX100CS-KIT	100m HDBaseT™ Extender Set Supporting 4K 60Hz 4:4:4 (70m)
HEX70CS-KIT	70m HDBaseT™ Extender Set Supporting 4K 60Hz 4:4:4 (40m)

4K 60Hz 4:4:4 **HDR** **AUDIO** BREAKOUT

R G B CSC

➡ UP TO **40m** 4K 60Hz 4:4:4 — HEX70CS-KIT

➡ UP TO **70m** 4K 60Hz 4:4:4 — HEX100CS-KIT

Our HEX70CS and HEX100CS extender kits offers market leading features and outstanding value utilising CSC technology. These products extend HDMI, Bi-directional IR & RS-232 and Bi-directional PoC (Power over Cable) up to lengths of 100m (4K to 70m) on the HEX100CS and 70m (4K to 40m) on the HEX70CS. The Transmitter includes a HDMI loop-out for integrating local displays or cascading to multiple devices. The Receiver features simultaneous analogue stereo and digital coax audio breakout.

HEX150CS-KIT - HDBaseT™ CSC Extender Set

150m HDBaseT™ Extender Set Supporting 4K 60Hz 4:4:4 (100m)

4K 60Hz 4:4:4 **HDR**

R G B CSC

➡ UP TO **100m** 4K 60Hz 4:4:4

The HEX150CS-KIT extender set is an industry leading 4K HDMI 2.0 HDCP 2.2 solution that uses the latest HDBaseT™ technology to deliver full 18Gbps HDMI signal with support for 4K 60Hz 4:4:4, Bi-directional IR, RS-232 and PoC (Power over Cable) up to lengths of 150m (100m at 4K) over a single CAT cable using advanced CSC technology. The HEX150CS-KIT also provides enhanced features including HDMI loop-out on the Transmitter, ARC via HDMI or Optical (S/PDIF) and 10/100BaseT Ethernet pass-through.

HSP14CS - 4-Way HDBaseT™ CSC Splitter

70m (4K 60Hz 4:4:4 up to 40m), Audio Breakout, EDID Management and HDMI Loop-out

4K 60Hz 4:4:4 **HDR**

R G B CSC

➡ UP TO **40m** 4K 60Hz 4:4:4

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

It's Time to Rethink the
Audio Visual Matrix

NEW PRODUCT

Custom Pro HDBaseT™ Matrix - Supporting 4K 18Gbps

The Custom Pro Matrix achieves new levels of both performance and flexibility. AV installers can now easily specify their desired I/O structure and choose the additional control features required for a specific project. The Custom Pro Matrix has been specifically designed to operate in challenging AV environments. Its robust housing and interlocking board configuration make both installation and maintenance a seamless experience. Advanced optional features include audio breakout with pre-amp variable line-level control, simultaneous HDBaseT™ / HDMI outputs, RS-232 pass through and a web browser interface module for control and configuration of the matrix.

Key Features

- 2-Way and 4-Way interchangeable input & output boards
- Optional control boards: IR Routing, Audio Breakout, RS-232
- HDBaseT™ specifications include 4K 60Hz 4:4:4 and HDR capabilities
- HDCP 2.2 compliant
- Pre-configured models available
- 8x8 and 16x16 chassis available

BLUSTREAM

Custom Pro Matrix - Input Boards - Supporting 4K 18Gbps

NEW

PRO-IN2H2TCS	4-Way HDMI 2.0 & HDBaseT™ CSC Input Board
PRO-IN2HAB	2-Way HDMI 2.0 Input board with Audio Breakout
PRO-IN4HAB	4-Way HDMI 2.0 Input board with Audio Breakout
PRO-IN2H2V	4-Way HDMI 2.0 & VGA Input board

Custom Pro Matrix - Output Boards - Supporting 4K 18Gbps

PRO-OUT2H-V2	2-Way HDMI 2.0 Output board
PRO-OUT4H-V2	4-Way HDMI 2.0 Output board
PRO-OUT2TCS	2-Way HDBaseT™ (100m) Output board (supports 4K 60Hz 4:4:4 & HDR to 70m)
PRO-OUT4TCS	4-Way HDBaseT™ (100m) Output board (supports 4K 60Hz 4:4:4 & HDR to 70m)
PRO-OUT4HTCS	4-Way HDBaseT™ (100m) / HDMI 2.0 Output board (supports 4K 60Hz 4:4:4 & HDR to 70m)
PRO-OUT2TL-V2	2-Way HDBaseT™ (70m) Output board (supports 4K 60Hz 4:4:4 & HDR to 40m)
PRO-OUT4TL-V2	4-Way HDBaseT™ (70m) Output board (supports 4K 60Hz 4:4:4 & HDR to 40m)
PRO-OUT4TLS-V2	4-Way HDBaseT™ (70m) / HDMI 2.0 Output board (supports 4K 60Hz 4:4:4 & HDR to 40m)

PRO-OUT4TLS
4-Way HDBaseT™ / HDMI Output Board (4K 40m)

Custom Pro Matrix - Chassis

CUSTOMPRO-HUB	Custom Pro Matrix Hub 8x8
CUSTOMPRO-HUB16	Custom Pro Matrix Hub 16x16

NEW

Custom Pro Matrix - Feature Boards

PRO-8IR-V2	8-Way IR Control Board (8x8 chassis only)
PRO-8ABV	8-Way Audio Breakout Board with Line Level Volume Control
PRO-8RS232	8-Way RS-232 Control Board

HDMI 2.0 | HDBT | 4K 60Hz 4:4:4 | HDR | AUDIO BREAKOUT | EDID | RGB CSC | UP TO 100m 1080p | UP TO 70m 4K 60Hz 4:4:4

Example Schematic - 16x16 Custom Pro Matrix Installation

BLUSTREAM

Example Schematic
16x16 Chassis

HDMI High-Definition Multimedia Interface | HDBT | Dolby | dts | Dante
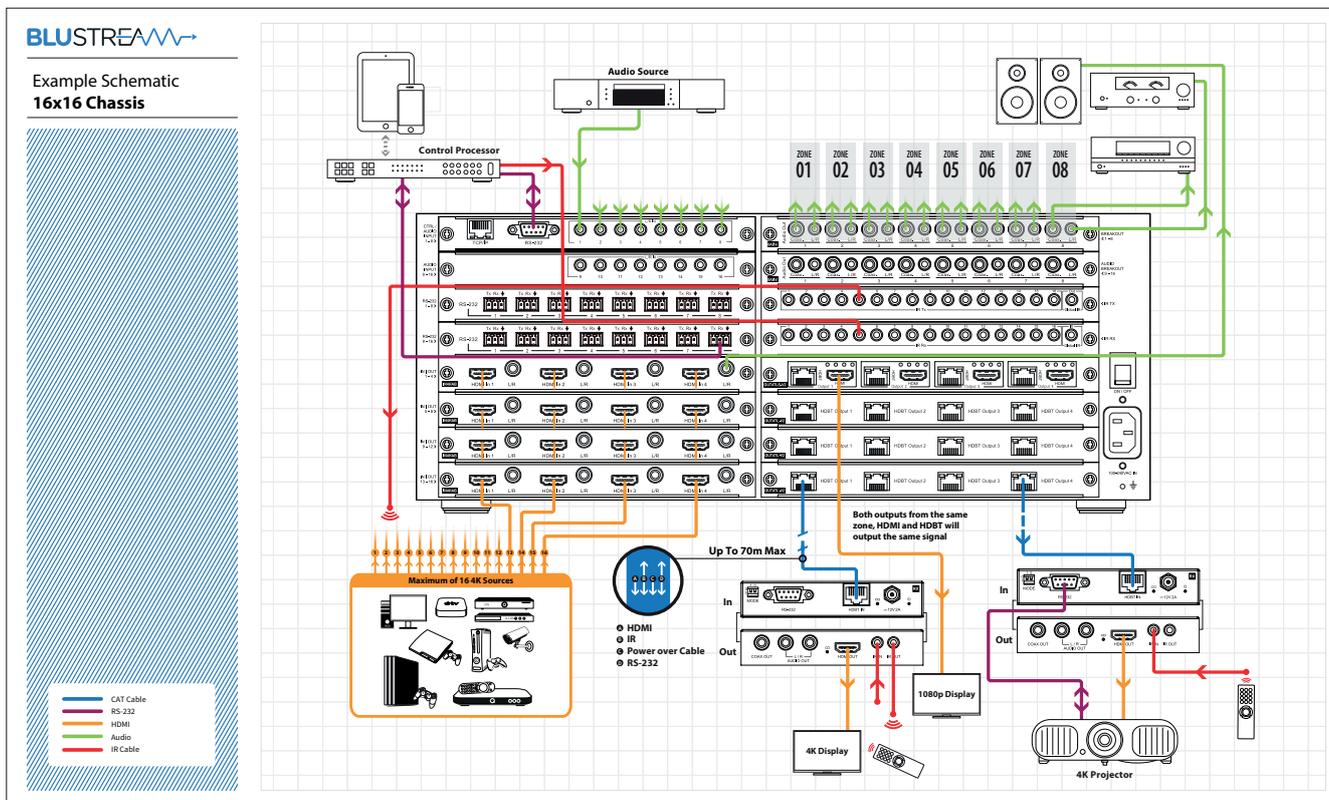
Our Platinum HDBaseT™ Matrix delivers a range of industry leading features including: 4K, HDCP 2.2, independent audio routing, simultaneous HDBaseT™ / HDMI outputs, *HDBaseT™ input module/s, Bi-directional IR and PoC up to lengths of 100m over a single CAT cable. The matrix series also provides RS-232 pass through to enable seamless 3rd party control integration, and a web interface module for control and configuration. The matrix can be configured using the Blustream Software or Web GUI, allowing the user to define audio channels, designate EDID presets, and insert audio delays on outputs to correct any lip sync issues within the system.

Advanced features on the PLAxxARC-V2 give the added ability to incorporate Audio Return Channel (ARC), and provide 100BaseT Ethernet to each zone.

Platinum HDBaseT™ Matrices

PLA88ARC-V2	8x8 HDBaseT™ Platinum Matrix - 100m, 4K, HDCP 2.2, Web GUI, Line Level Volume Control
PLA88L-V2	8x8 HDBaseT™ Platinum Matrix - 70m, 4K, HDCP 2.2, Web GUI, Line Level Volume Control
PLA66ARC-V2	6x6 HDBaseT™ Platinum Matrix - 100m, 4K, HDCP 2.2, Web GUI, Line Level Volume Control
PLA66L-V2	6x6 HDBaseT™ Platinum Matrix - 70m, 4K, HDCP 2.2, Web GUI, Line Level Volume Control

Key Features

Additional HDBaseT™ inputs can be configured by request

- Advanced HDBaseT™ technology offering uncompressed video and audio with zero latency
- Features 8 x HDMI inputs which can be independently routed to 8 x HDBaseT™ and HDMI outputs
- Simultaneous HDBaseT™ and HDMI outputs to allow connection to dual displays per zone

- HDCP 2.2 compliant
- Supports 4K UHD video up to 3840 x 2160 @30Hz 4:4:4, 4096 x 2160 @24Hz 4:4:4 and 4K @60Hz 4:2:0
- Supports PoC (Power over Cable) to power compatible HDBaseT™ transmitters & receivers
- Features independent 24x16 audio matrix

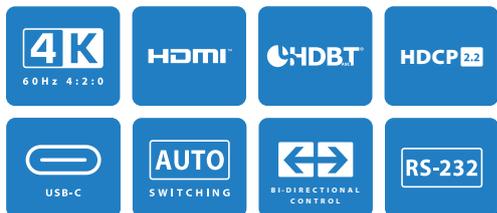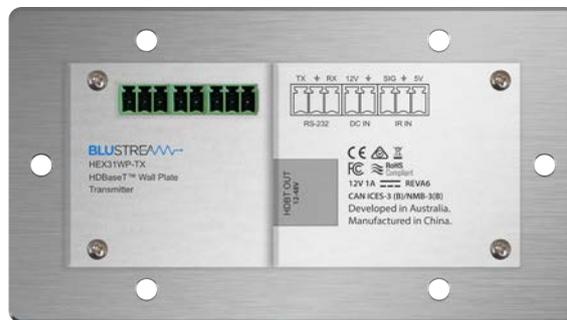# Wall Plate Transmitters

HEX31WP-TX - 2 x HDMI & 1 x USB-C Wall Plate HDBaseT™ Transmitter
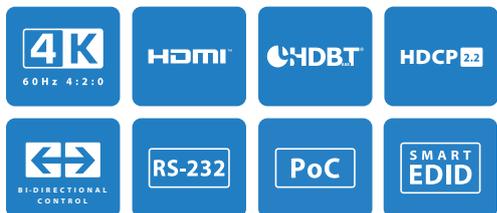
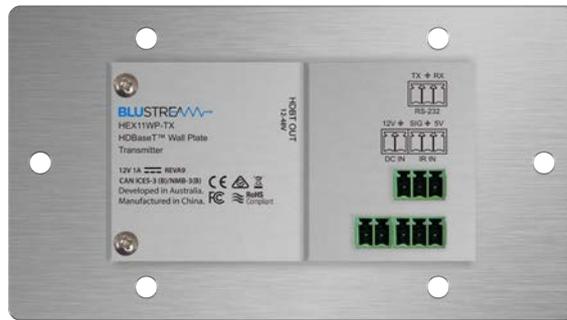AV and IR up to 70m (4K up to 40m), Manual / Auto Source Switching, Advanced EDID Management

4K 60Hz 4:2:0 | **HDMI** | **HDBT** | **HDCP** 2.2

USB-C | **AUTO** SWITCHING | **BI-DIRECTIONAL CONTROL** | **RS-232**

- ➔ Features 2 x HDMI & 1 x USB-C inputs with manual / auto source selection
- ➔ Programmable on / off macro feature utilising IR, RS-232 or CEC for control of display device at HDBaseT™ RX
- ➔ Extends 4K to 40m, 1080p to 70m
- ➔ Fits UK / EU double gang back boxes

HEX11WP-TX - HDMI Wall Plate HDBaseT™ Transmitter

AV and IR up to 70m (4K up to 40m)

4K 60Hz 4:2:0 | **HDMI** | **HDBT** | **HDCP** 2.2

BI-DIRECTIONAL CONTROL | **RS-232** | **PoC** | **SMART EDID**

- ➔ Advanced HDBaseT™ technology offering distribution of video and audio over a single CAT cable
- ➔ Smart EDID function automatically limits EDID to within HDBaseT™ specification to improve compatibility
- ➔ Extends 4K to 40m, 1080p to 70m
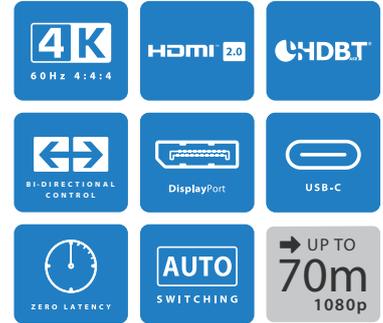- ➔ Fits UK / EU double gang back boxes

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HEX70HDU-KIT - Multi-Format HDBaseT™ Extender Set

70m (4K up to 40m), Switchable HDMI, DisplayPort™ and USB-C inputs with Auto Signal Sensing, Local HDMI Input on RX, Bi-directional IR & RS-232, Bi-directional PoC & Web GUI

➔ Features 1 x HDMI, 1 x USB-C and 1 x DisplayPort™ input on the HDBaseT™ Transmitter with manual or auto source selection

➔ Supports 4K 60Hz 4:4:4 UHD video up to 40m. Extends 1080p video up to 70m

4K 60Hz 4:4:4 | **HDMI 2.0** | **HDBT**

BI-DIRECTIONAL CONTROL | **DisplayPort** | **USB-C**

ZERO LATENCY | **AUTO SWITCHING** | **UP TO 70m 1080p**

HEX100ARC-KIT-V2 - HDBaseT™ Extender Set

100m (4K up to 70m), Bi-directional IR & RS-232, Bi-directional PoC, HDMI Loop-out, Audio Breakout, ARC, 3 x LAN Switch and supports HDCP 2.2

➔ Advanced HDBaseT™ technology offering uncompressed video and audio with zero latency

➔ Supports 4K UHD video up to 70m

HDBT | **PoC** | **3D**

4K 60Hz 4:2:0 | **HDCP 2.2** | **AUDIO BREAKOUT**

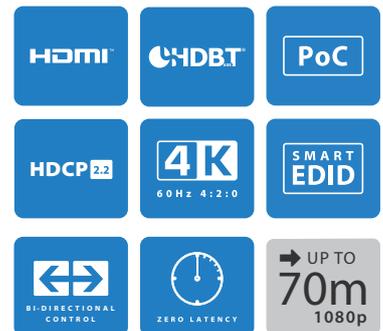**HD AUDIO** | **ARC** | **UP TO 100m 1080p**

HEX70SL-KIT - Slimline HDBaseT™ Extender Set

70m (4K up to 40m), Bi-directional IR and Bi-directional PoC

➔ Advanced HDBaseT™ technology offering uncompressed video and audio with zero latency

➔ Enhanced slimline chassis

HDMI | **HDBT** | **PoC**

HDCP 2.2 | **4K** 60Hz 4:2:0 | **SMART EDID**

BI-DIRECTIONAL CONTROL | **ZERO LATENCY** | **UP TO 70m 1080p**

HEX70B-KIT - HDBaseT™ Extender Set

70m (4K up to 40m), Bi-directional IR, Bi-directional PoC

➔ Extends HDMI up to distances of 70m over single CAT cable

➔ Supports 4K UHD video up to 40m

HDMI | **HDBT** | **PoC**

HDCP 2.2 | **4K** 60Hz 4:2:0 | **BI-DIRECTIONAL CONTROL**

ZERO LATENCY | **UP TO 70m 1080p**
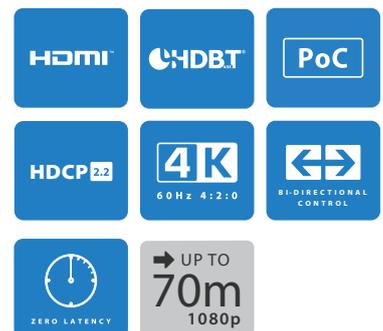
4K 18Gbps HDMI Splitters

with Audio Breakout and EDID Management
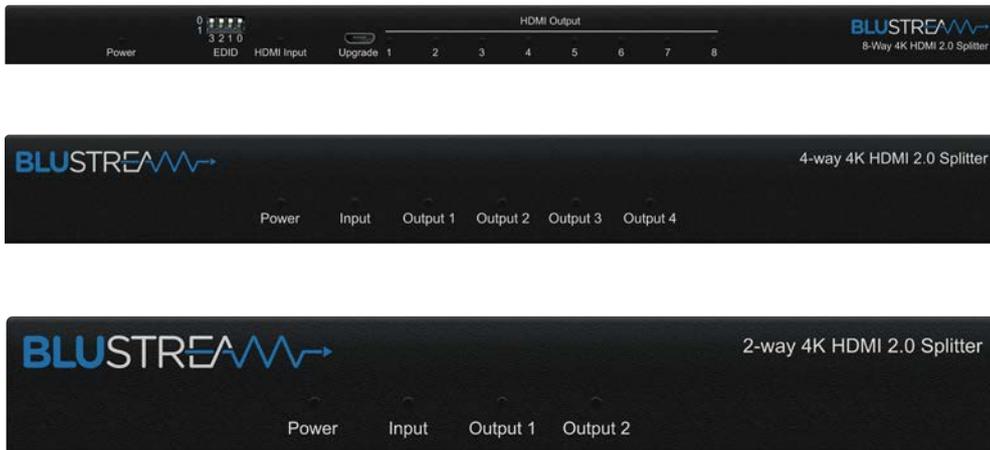
Our 4K UHD HDMI splitter distributes a single HDMI source to 8, 4 or 2 simultaneous outputs. The units transmit all HDMI resolutions up to and including 4K 60Hz 4:4:4. The splitters also include the advanced features of audio breakout (SP14AB-V2 & SP12AB-V2 only) and EDID management.

Models & Description

SP18	8-Way 4K HDMI 2.0 Splitter supporting 4K 60Hz 4:4:4
SP14AB-V2	4-Way 4K HDMI 2.0 Splitter supporting 4K 60Hz 4:4:4
SP12AB-V2	2-Way 4K HDMI 2.0 Splitter supporting 4K 60Hz 4:4:4

4K 18Gbps HDMI Switchers

with Audio Breakout and EDID Management

Models & Description

SW41AB-V2	4-Way 4K HDMI 2.0 Switch with RS-232 Control, Audio Breakout and EDID Management
SW21AB-V2	2-Way 4K HDMI 2.0 Switch with Audio Breakout and EDID Management

Our HDMI switch with integrated audio breakout can be controlled via IR, front panel and RS-232 (SW41AB-V2 only). The switch supports all video resolutions up to and including 4K.
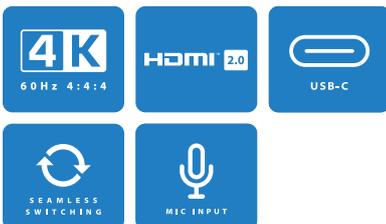
Advanced Multi-Format
Presentation Switchers

AMF42AU - 4x2 Advanced Multi-Format Presentation Switcher

NEW PRODUCT

3 x HDMI, 1 x USB-C inputs / 2 x HDMI, 1 x HDBaseT™ Output, Seamless Switching, Video Scaling, MIC Input with Phantom Power, Audio Mixing & Web GUI

4K 60Hz 4:4:4

HDMI 2.0

USB-C

SEAMLESS SWITCHING

MIC INPUT

➔ Features 3 x HDMI 2.0 and 1 x USB-C inputs which can be seamlessly switched to dual HDMI 2.0 / HDBaseT™ outputs

➔ Advanced audio features include: MIC input with 48V phantom power, line level volume control and audio mixing

➔ Supports resolutions up to 4K UHD 60Hz 4:4:4

➔ Seamless source switching with manual or auto source selection

➔ Independent video scaling on outputs

➔ HDCP 2.2 compliant with advanced EDID management

MFP112 - 11 Input Multi-Format Presentation Switch

11 Input 2 Output Multi-Format Presentation Switch Including HDBaseT™ Input and Output

Our MFP112 is a multi-format presentation switcher with in-built video scaling, audio embedding, de-embedding, EDID management and HDBaseT™ input and output. The MFP112 works in 2 modes, first as a 11 input dual output switcher, alternatively each output can work independently with HDMI output 1 routing the 1 x HDBaseT™ & 4 x HDMI inputs only and output 2 switching all 11 video / audio inputs. With control of the switcher using the front-panel push buttons, IR remote control or RS-232 interface it is an ideal solution for commercial installations.

MFP72 - 7 Input Multi-Format Presentation Switch

7 Input 2 Output Multi-Format Presentation Switch

Our MFP72 is a multi-format presentation switcher with in-built video scaling, audio embedding, de-embedding and EDID management. The MFP72 works in 2 modes, first as a 7 input dual output switcher, alternatively each output can work independently with output 1 routing the 4 x HDMI inputs only and output 2 switching all 7 video / audio inputs. With control of the switcher using the front-panel push buttons, IR remote control or RS-232.

MFP62 - 6 Input Multi-Format Presentation Switch

Includes Video Scaling, Auto Switching, MIC Input with Phantom Power, Audio Mixing & Web GUI

Our MFP62 is an advanced 4K multi-format presentation switch featuring 3 x HDMI, 1 x USB-C, 1 x DisplayPort™ and 1 x VGA input to dual HDMI outputs. The MFP62 provides enhanced features Including video scaling on output, auto switching, MIC input with phantom power and audio mixing. The MFP62 also features web GUI for control and configuration, analogue audio embedding, audio de-embedding and control via front panel, IR, RS-232 and TCP/IP. The MFP62 is an ideal product for your boardroom, classroom or huddle-space application.

MFP31 - Portable Multi-Format Presentation Switch

HDMI, Mini DisplayPort™ and USB-C inputs / HDMI Output, Manual / Auto Source Switching

NEW PRODUCT

Our MFP31 is a portable multi-format presentation switch, featuring HDMI, DisplayPort™ and USB-C inputs to a single HDMI output, with manual or auto source selection. The MFP31 supports HDMI 2.0 18Gbps specification including pass-through of all formats of HDR and HDMI audio. The MFP31 is ideal for your boardroom or huddle-space application.

HD12DB - HDMI Audio De-Embedder

Dolby® / DTS™ Down Mixing DAC 2-Way HDMI Splitter & Scaler 4K 60Hz 4:4:4

Our HD12DB has been designed to convert and downmix embedded Dolby® or DTS™ 5.1ch audio within a HDMI signal into a stereo 2ch signal available on HDMI, optical and analogue audio outputs. The HD12DB features a HDMI loop-out to pass the original video and multi-channel embedded audio signal to compatible equipment, with a second HDMI output with video down-scaling of up to 4K 60Hz 4:4:4 video to various lower resolution video formats.

➔ Features an in-built DAC (Digital to Analogue audio Converter) that converts Dolby® or DTS™ 5.1 to a stereo 2ch signal available on HDMI, optical and analogue audio outputs

➔ Features 1x HDMI input supporting 4K UHD video (4K 60Hz 4:4:4) that is replicated to 2 x HDMI outputs

➔ HDMI loop out will replicate the HDMI video and audio input signal up to 4K 60Hz 4:4:4 and 5.1 Dolby® & DTS™ audio

➔ HDMI audio breakout to analogue L/R audio and optical digital outputs concurrently

4K 60Hz 4:4:4   **HD** AUDIO   **AUDIO** DOWNMIXING   VIDEO SCALING

HD11CTRL - HDMI In-Line Controller

with IR, RS-232, CEC, Signal Sensing & 12V Trigger Outputs

Our HD11CTRL HDMI in-line controller is an automated room control solution including display on / off control via CEC, RS-232 and IR, when either 5V HDMI, HDMI TMDS or an external sensor is triggered. External relay inputs allow third party triggers for integration with devices such as sensors or switches. The HD11CTRL will also help with HDMI compatibility, HDCP 2.2, clock stretching, EDID and handshaking issues that are becoming common problems when distributing HDMI signals, especially 4K. The HD11CTRL supports full HDMI 2.0 and HDCP 2.2 with video resolutions up to and including 4K @ 60Hz 4:4:4.

4K 60Hz 4:4:4   **HDMI** 2.0   **HDCP** 2.2
RS-232 CONTROL   **CEC** CONTROL   **IR** LEARNING

DA44AU

4x4 Dante® Audio Converter

Our DA44AU is a four input / four output Dante® digital audio converter. The DA44AU allows any non-Dante® audio source such as mixing consoles, amplifiers, computers and Blustream Matrix / distribution products to be connected as an audio source within a Dante® network, as well as converting a Dante® signal back to an analogue audio signal. The DA44AU supports both balanced and unbalanced audio as well as microphone line level inputs inc. 48V phantom power. The DA44AU supports AES67 RTP audio transport.

➔ Features 4 x analogue audio input channels that are converted to a Dante® compatible signal

➔ Features conversion of Dante® signals to 4 x analogue audio output channels

➔ Analogue audio inputs support both balanced and unbalanced audio & MIC line level signals

➔ MIC line level supports 48V Phantom power

➔ Supports 44.1, 48 & 96kHz sample rates @ 24-bit

➔ Configurable Dante® device latency (supports 1, 2 or 5ms configurable using Dante® Controller)

➔ Independent input gain / output volume settings per channel

➔ Supports AES67 RTP audio transport

➔ RS-232 control of units functionality

DA11AU

2ch Analogue Audio to Dante® Converter

➔ 2 x mono or 1 x stereo analogue audio (balanced or unbalanced) input to Dante® converter

➔ Supports 44.1, 48 & 96kHz sample rates @ 24-bit with AES67 RTS audio transport

DA11D

NEW PRODUCT

Dante® to 2ch Analogue Audio Decoder

➔ Analogue audio outputs support both balanced and unbalanced audio signals

➔ Configurable Dante® device latency (supports 1, 2 or 5ms configurable using Dante® Controller)

Contractor Series
Unprecedented Performance and Value

HDMI™ HDBT™ Dolby dts

Contractor 4K HDBaseT™ Matrix

NEW PRODUCT

70m (4K up to 40m), Bi-directional IR, PoC, Simultaneous HDMI / HDBaseT™ on Output 1, RS-232 & TCP/IP Control, HDCP 2.2 Compliant, Web GUI

4K 60Hz 4:2:0 | **HDMI 1.4** | **HDBT** | **HDCP 2.2** | **EDID MANAGEMENT** | **RS-232** | **WEB GUI** GRAPHICAL USER INTERFACE | **ZERO LATENCY**

Our Contractor 8x8 and 6x6 HDBaseT™ Matrices offer unprecedented performance and value for the custom installation market. The C88 and C66 is a 4K HDCP 2.2 Matrix delivering HDMI, bi-directional IR, and PoC (Power over Cable) up to lengths of 70m over a single CAT cable.

Models & Description

C88	8x8 Contractor 4K HDBaseT™ Matrix
C66	6x6 Contractor 4K HDBaseT™ Matrix

C44-KIT - Contractor 4x4 HDBaseT™ Matrix Kit

70m (4K up to 40m), Bi-directional IR, PoC, Simultaneous HDMI / HDBaseT™ on Output 1, RS-232 & TCP / IP Control, HDCP 2.2 Compliant, Web GUI, Includes 4x HEX70B-RX HDBaseT™ Receivers

Our Contractor 4x4 HDBaseT™ Matrix offers unprecedented performance and value for the custom installation market. The C44-KIT is a 4K HDCP 2.2 Matrix package, delivering HDMI, Bi-directional IR and PoC up to lengths of 70m over a single CAT cable.

4K | **HDBT** | **HDCP 2.2** | **HD AUDIO** | **WEB GUI** GRAPHICAL USER INTERFACE | **PoC**

CMX42AB - 4K HDMI Matrix

4x2 4K HDMI 2.0 Matrix with Audio Breakout, HDCP 2.2

Our Contractor CMX42AB 4K HDMI matrix individually distributes four HDMI sources to two displays enabling all sources to be viewed seamlessly as required within a matrix configuration. The unit transmits all HDMI resolutions up to and including full 4K 60Hz 4:4:4 and HDR (18Gbps). The 4-input matrix also includes audio breakout, RS-232 control and EDID management.

CMX44AB - 4K HDMI Matrix

4x4 4K HDMI 2.0 Matrix with Audio Breakout, HDCP 2.2

Our Contractor CMX44AB 4K HDMI matrix individually distributes four HDMI sources to four displays enabling all sources to be viewed seamlessly as required within a matrix configuration. The unit transmits all HDMI resolutions up to and including full 4K 60Hz 4:4:4 and HDR (18Gbps). The 4-way matrix also includes audio breakout, RS-232 control and EDID management.

CMX88AB - 4K HDMI Matrix

8x8 4K HDMI 2.0 Matrix with Audio Breakout, HDCP 2.2

Our Contractor CMX88AB 4K HDMI Matrix offers unprecedented performance and value for the custom installation market. The CMX88AB supports HDMI 2.0 with HDCP 2.2, allowing distribution of eight HDMI sources to eight displays. This enables all sources to be viewed as required within a matrix configuration. The unit transmits all HDMI resolutions up to and including 4K 60Hz 4:4:4. The 8-Way matrix also includes audio breakout, EDID management and a web browser interface module for control and configuration of the matrix.

MX44VW - 4x4 HDMI / VGA Matrix

4x4 4K Seamless Switching HDMI / VGA Matrix with Video Wall and Multi-viewer feature, IR Routing, RS-232, IR & TCP/IP Control
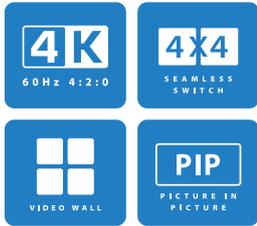
Our MX44VW 4K HDMI/VGA matrix is a multi-purpose high-speed video processing system. The MX44VW can be configured for 3 different output modes. The MX44VW can perform as a 4x4 seamless matrix switcher, as a 2x2, 4x1 or 1x4 video wall solution and as a quad multi-view presentation system. Inputs can be assigned as either HDMI or VGA with associated L/R analogue audio with control of the switcher via the front-panel push buttons, IR remote control, RS-232 interface and TCP/IP.

SC12SP-V2 - 2-Way HDMI 4K Down-scaler and Splitter

HDMI 4K HDCP 2.2 Compliant Splitter (50/ 60Hz 4:4:4 support) with built in Down-scaler, Audio Breakout and EDID Management

Our SC12SP-V2 is a HDMI 4K splitter with in-built down-scaler, designed for installations in which a single 4K video source needs to be distributed to multiple displays that support different maximum video resolutions. The SC12SP-V2 allows those displays only capable of supporting lower video resolutions to receive 4K video while still showing the maximum original 4K resolution on the higher-definition display through the Bypass output. The SC12SP-V2 supports down-scaling of 4K (inc HDR) video to 1080p, features audio breakout, advanced EDID management and is HDCP 2.2 compliant.

SC11HD-V2 - HDMI 4K Down-scaler

HDMI 4K Down-scaler (50 / 60Hz 4:2:0 support) with Audio Embedder / De-Embedder

The Blustream SC11HD-V2 is a HDMI 4K scaler, designed for installations with multiple displays that support different maximum video resolutions. The SC11HD-V2 is ideal for installations with multiple output resolution requirements. The SC11HD-V2 supports down-scaling of 4K (Inc HDR) video to 1080p and supports HDCP 2.2 with advanced EDID management. It also features either de-embedding or embedding audio within the HDMI signal path.

SM11

Signal Manager with Audio Embedder / De-Embedder

- Can help to solve most HDMI EDID, HDCP, compatibility and handshaking issues
- Supports full HDMI 2.0 specification 4K UHD video (4K @ 60Hz 4:4:4)
- HDCP 2.2 support

HD11AU

HDMI Audio Embedder / De-Embedder

- Can be configured to work as either a HDMI audio de-embedder or audio embedder
- Supports 4K UHD video pass-through
- Extract audio and embed analogue L/R audio input onto the HDMI output

ARC11

NEW PRODUCT

ARC Audio Breakout

- Extracts audio from the Audio Return Channel of a HDMI signal
- Features analogue audio breakout of 2ch PCM audio signals, where source audio is 2ch PCM

CAT100AU

➡ UP TO **300m**

Audio over CAT

- Extend optical and coaxial digital audio signals up to distances of 300m
- Both optical and coaxial digital can be distributed at the same time
- Built in DAC (Digital to Analogue audio Converter)

PAC500AU

➡ UP TO **500m**

Passive Audio over CAT Cable

- Extend analogue audio signals up to distances of 500m over a single CAT cable
- Passive solution - Extender kit does not require a power supply

DAC12AU

Digital to Analogue Converter (DAC) Simultaneous Analogue and Digital Output

- Convert the digital audio output from a TV display into analogue stereo
- Auto-detects digital connection in use
- 192kHz Sample Rate

DIG11AU

Digital Audio Converter

- Converts digital audio formats (optical to optical and coax, or, coax to optical or coax)
- Both optical and coaxial digital outputs work concurrently regardless of input type selected

AD11AU

Analogue Audio Delay Processor with Volume Control

- In-line 2ch analogue audio delay with line-level volume control
- Supports 48kHz/24 bit sample rates

ADC11AU

Analogue to Digital Audio Converter (ADC)

- ADC (Analogue to Digital audio Converter) converts analogue left/right stereo audio input to both S/PDIF optical and coaxial digital PCM outputs

OPT41AU

4-Way Optical Switch with built-in DAC and Audio Conversion

- Perfect for the integration of multiple audio sources with a soundbar

HDMI HDBT Dolby dts Dante

PRECISION 18GBPS

GUARANTEED 18GBPS 4K UHD HDMI CABLE

PRECISION 18Gbps Passive HDMI Cable

Our Passive Precision 18 HDMI cables guarantee 18Gbps pass through for support of all the latest 4K resolutions including 4K 60Hz 4:4:4 colour space, HDR, Dolby Vision and 8/10/12 bit colour.

- ➲ Guaranteed 18Gbps Bandwidth
- ➲ Supports 4K UHD video (up to 4K @60Hz 4:4:4/HDR)
- ➲ Gold plated locking connectors for secure connection
- ➲ Porcelain ceramic connectors for enhanced durability

Models & Description

HDMI18G0.5	Passive HDMI Cable - 0.5m	**HDMI18G5**	Passive HDMI Cable - 5m
HDMI18G1	Passive HDMI Cable - 1m	**HDMI18G7**	Passive HDMI Cable - 7m
HDMI18G2	Passive HDMI Cable - 2m		
HDMI18G3	Passive HDMI Cable - 3m		

PRECISION 18Gbps Active HDMI Cable

Our Active Precision 18 HDMI cables utilise integrated circuits that measure, analyse and adjust the video signal to ensure 18Gbps pass through for support of all the latest 4K resolutions including 4K 60Hz 4:4:4 colour space, HDR, Dolby Vision and 8/10/12 bit colour.

- ➲ Guaranteed 18Gbps Bandwidth
- ➲ Supports 4K UHD video (up to 4K @60Hz 4:4:4/HDR)
- ➲ Gold plated locking connectors for secure connection
- ➲ Porcelain ceramic connectors for enhanced durability

Models & Description

HDMI18G10	Active HDMI Cable - 10m
HDMI18G15	Active HDMI Cable - 15m
HDMI18G20	Active HDMI Cable - 20m

PRECISION 18Gbps Active Optical Copper (AOC) HDMI Cable

Our Precision 18 HDMI Active Optical Copper (AOC) cables utilise a hybrid copper and optical transmission technology. Copper is used to manage the DDC handshake whilst optical handles the high-speed data throughput to allow 18 Gbps transmission of distances of up to 100m. All latest 4K resolutions are supported including 4K 60Hz 4:4:4 colour space, HDR, Dolby Vision and 8/10/12 bit colour.

- ➲ Guaranteed 18Gbps Bandwidth
- ➲ Optimised for the toughest installation environments
- ➲ Active Optic Copper cable provides enhanced EMI and RFI resistance
- ➲ Detachable HDMI connector for advanced installation

Models & Description

HDMI18G30	Active Optical Cable (AOC) HDMI 30m
HDMI18G50	Active Optical Cable (AOC) HDMI 50m
HDMI18G100	Active Optical Cable (AOC) HDMI 100m

Static State HDMI Cable

Shape your cables and fix them in position for improved connection and cosmetics.

❯ Cable can be fixed in any required position, perfect for rack installations
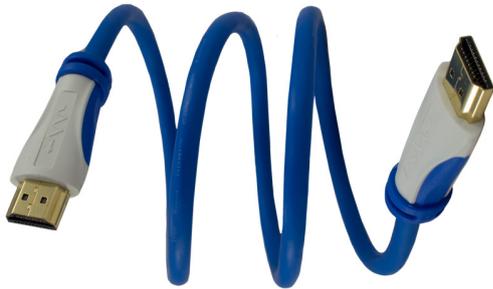
Models & Description

HDMISS-05	Blustream Static State HDMI - 0.5m
HDMISS-07	Blustream Static State HDMI - 0.7m
HDMISS-1	Blustream Static State HDMI - 1.0m

Performance HDMI Cable

Our longer length Performance HDMI cables have been extensively tested to guarantee 4K resolutions.

❯ High Speed with Ethernet (Except 10m & 15m lengths)

Models & Description

HDMIP-0.5	Performance HDMI Cable - 0.5m
HDMIP-1	Performance HDMI Cable - 1m
HDMIP-2	Performance HDMI Cable - 2m
HDMIP-3	Performance HDMI Cable - 3m
HDMIP-5	Performance HDMI Cable - 5m
HDMIP-7	Performance HDMI Cable - 7m
HDMIP-10	Performance HDMI Cable, Standard Speed - 10m
HDMIP-15	Performance HDMI Cable, Standard Speed - 15m

Micro Form HDMI Cable

Discrete design for tight spaces and compact installations.

❯ Discrete design for tight spaces and compact installations
❯ Transmit all video resolutions up to and including 4K

Models & Description

HDMIM-0.5	Micro Form HDMI Cable - 0.5m
HDMIM-1	Micro Form HDMI Cable - 1m
HDMIM-1.5	Micro Form HDMI Cable - 1.5m
HDMIM-2	Micro Form HDMI Cable - 2m

Micro Form HDMI Adapter Cable

Perfect male to female adapter for hard to reach HDMI sockets.

❯ Discrete design for tight spaces and compact installations
❯ Transmit all video resolutions up to and including 4K
❯ 3D Compatible
❯ Deep Colour

Models & Description

HDMIMF-0.1	Micro Form HDMI Adapter Cable - 0.1m

Digital Optical Audio Cable

Optical interconnect cable.

❯ Plastic Optical Fibre (POF) core of acrylic glass
❯ 24K gold plated Toslink connectors
❯ Ultra flexible cable design

Models & Description

OPT1	Optical Interconnect - 1m
OPT2	Optical Interconnect - 2m
OPT3	Optical Interconnect - 3m

Analogue Audio Cable

Stereo 2 phono - 3.5mm jack.

❯ 99.999% Oxygen Free Copper conductors
❯ 24K gold plated connectors
❯ Co-axial design provides enhanced signal transfer

Models & Description

ANA1	Stereo 2 Phono - 3.5mm Jack - 2m
ANA2	Stereo 2 Phono - 3.5mm Jack - 2m
ANA3	Stereo 2 Phono - 3.5mm Jack - 3m

BLUSTREAM

www.blustream.co.uk

Official Distribution Partner

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

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