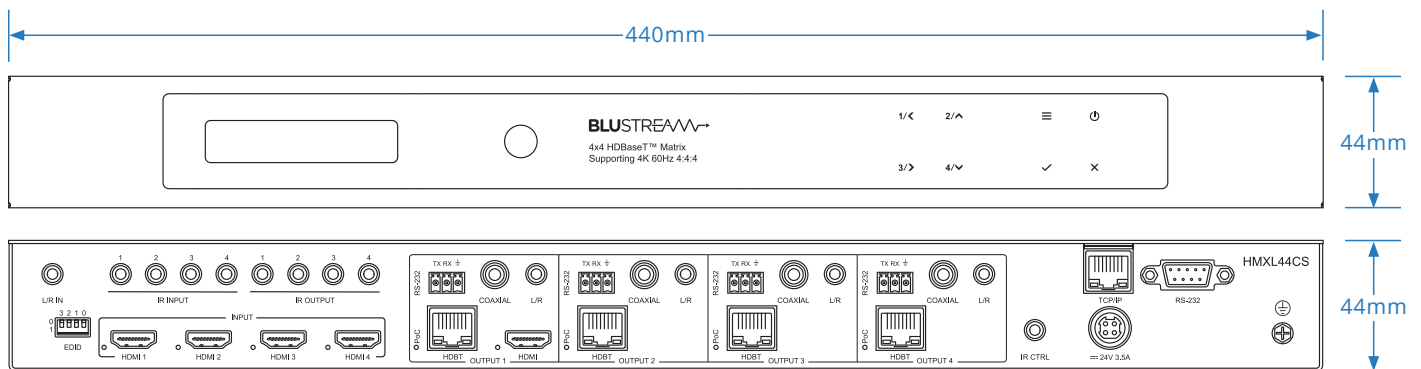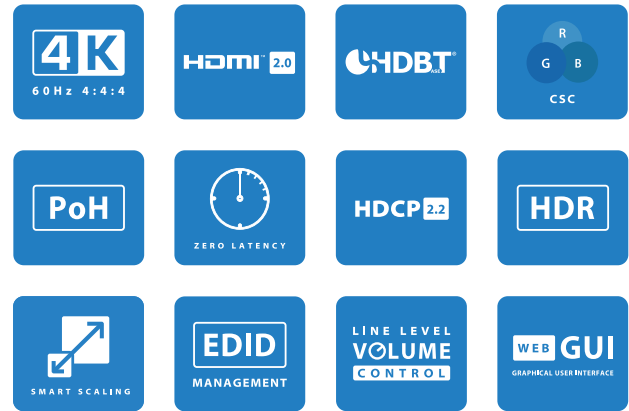# HMXL44CS

4x4 HDBaseT™ CSC Matrix

Description

Our Essential 4x4 HDBaseT™ Matrix offers unprecedented performance and value for the custom installation market. The HMXL44CS-KIT is a HDMI 2.0 4K60Hz 4:4:4 HDCP 2.2 Matrix package utilising CSC technology to deliver HDMI, Bi-directional IR, RS-232 and PoH (PoE) up to lengths of 70m over a single CAT cable.
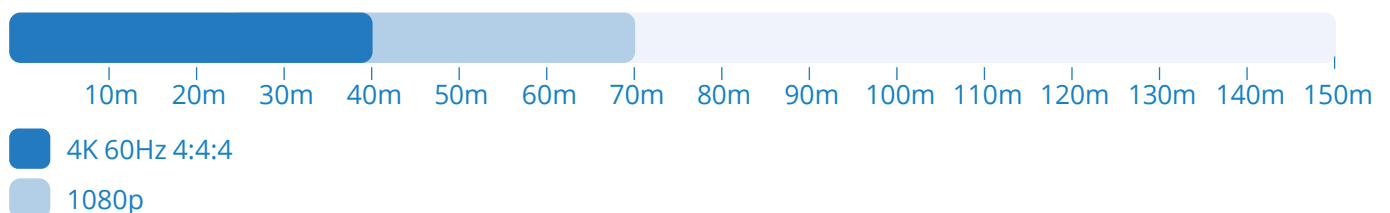
The Matrix also provides advanced features including simultaneous HDBaseT™ / HDMI on output 1, audio breakout with pre-amp variable line-level control and a web browser interface module for control and configuration of the matrix. The HMXL44CS-KIT is supplied with 4 x HEX70CS-RX receivers.

4K 60Hz 4:4:4 | HDMI 2.0 | HDBT | RGB CSC

PoH | ZERO LATENCY | HDCP 2.2 | HDR

SMART SCALING | EDID MANAGEMENT | LINE LEVEL VOLUME CONTROL | WEB GUI GRAPHICAL USER INTERFACE

440mm

44mm

44mm

HMXL44CS

Key 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 support
- Features 4 x HDMI inputs which can be independently routed to 4 x HDBaseT™ outputs
- Output 1 features simultaneous HDMI and HDBaseT™ output
- HDBaseT™ output 1 features video downscaling from 4K to 1080p
- Extends 4K60Hz 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
- HDMI re-clocking on the HEX70CS-RX HDBaseT™ Receivers to help solve HDMI HDCP, compatibility, and handshaking issues
- Supports bitstream passthrough of multichannel surround sound including object-based audio formats in line with HDMI specifications.

- Analogue audio input can be embedded onto any HDMI input
- Web interface module for control and configuration of the Matrix
- Supports bi-directional IR and RS-232 on all HDBaseT™ outputs
- Supplied with Blustream IR receivers and emitters
- Control via front panel, IR, RS-232 and TCP/IP
- Supports PoH (Power over HDBaseT™) to power supplied HDBaseT™ Receivers
- 3rd Party drivers available for all major control brands
- 1U Design for 19" rack mount integration - mounting kit included
- Advanced EDID management
- HDCP 2.2 compliant

Transmission Distance via Cat6

10m 20m 30m 40m 50m 60m 70m 80m 90m 100m 110m 120m 130m 140m 150m

- 4K 60Hz 4:4:4
- 1080p

Connectivity

- **Video Input Connectors:** 4 x HDMI Type A, 19-pin, female
- **Video Output Connectors:** 1 x HDMI Type A, 19-pin, female, 4 x HDBaseT™ RJ45 connector
- **Audio Output Connectors:** 4 x 3.5mm stereo jack, 4 x RCA Coaxial Digital
- **RS-232 serial port:** 1 x DB-9, female, 4 x 3-pin Phoenix sockets for each zone (DB9 serial to Phoenix connector cables supplied)
- **TCP/IP Control:** 1 x RJ45, female
- **IR Input ports:** 5 x 3.5mm stereo jack
- **IR Output ports:** 4 x 3.5mm mono jack

Specifications

- **Unit Dimensions (W x D x H):** 440mm x 235mm x 44mm (without feet & connections)
- **Unit Dimensions (W x D x H):** 440mm x 245mm x 52mm (with feet & connections)
- **Unit Weight:** 2.98kg
- **Box/Carton Dimensions (W x D x H):** 505mm x 305mm x 155mm
- **Shipping Weight:** 7.5kg
- **Operating Temperature:** 32°F to 104°F (0°C to 40°C)
- **Storage Temperature :** -4°F to 140°F (-20°C to 60°C)

Included Accessories

HDBaseT Receiver	4 x HEX70CS-RX
IR Accessories	5 x IRR, 4 x IRE, 4 x IR-CAB
IR Remote	1 x REM44
Rack Mount	2 x 19" Wings
Power Supply	24V/6A DC - 4-PIN DIN

Control

TCP/IP
RS-232
App / Web GUI
IR
Front Panel

RS-232 Connectivity

Baud Rate:	57600 bps
Data Bit:	8-bit
Parity:	None
Stop Bit:	1-bit
Flow Control:	None

Regulatory Compliance

FC   CE   RoHS Compliant   CAN ICES-3 (B)/NMB-3(B)

Colour Space Conversion (CSC) Technology in HDBaseT™

Due to the data rate of HDBaseT™ technology being capped at 10.2Gbps, it is unable to pass the latest native 4K UHD resolutions of 4K 60Hz 4:4:4. There is now a requirement to integrate video resolutions with data speeds up to 18Gbps across a multi-zone AV environment. Blustream have implemented CSC (Colour Space Conversion) technology into our latest products to ensure 4K HDR signals can now be supported over the limited infrastructure of HDBaseT™*.

Colour Space Conversion reduces the data rate of the HDMI signal by converting the colour space from 4:4:4 or 4:2:2 to a lower format. Within Colour Space Conversion technology the native resolution and frame rate remain constant from end to end. The only part of the signal that is converted during transmission is the colour.

* Blustream CSC products are not compatible with advanced HDR formats such as HDR10+, nor do they support video technologies utilizing 12-bit dynamic or static metadata

Blustream cannot be held responsible for errors in typography or photography. Specifications are subject to change without notice.

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