HMXL42ARC-KIT

BLUSTREAM

4x2 HDBaseT™ Matrix - 4K 60Hz 4:4:4

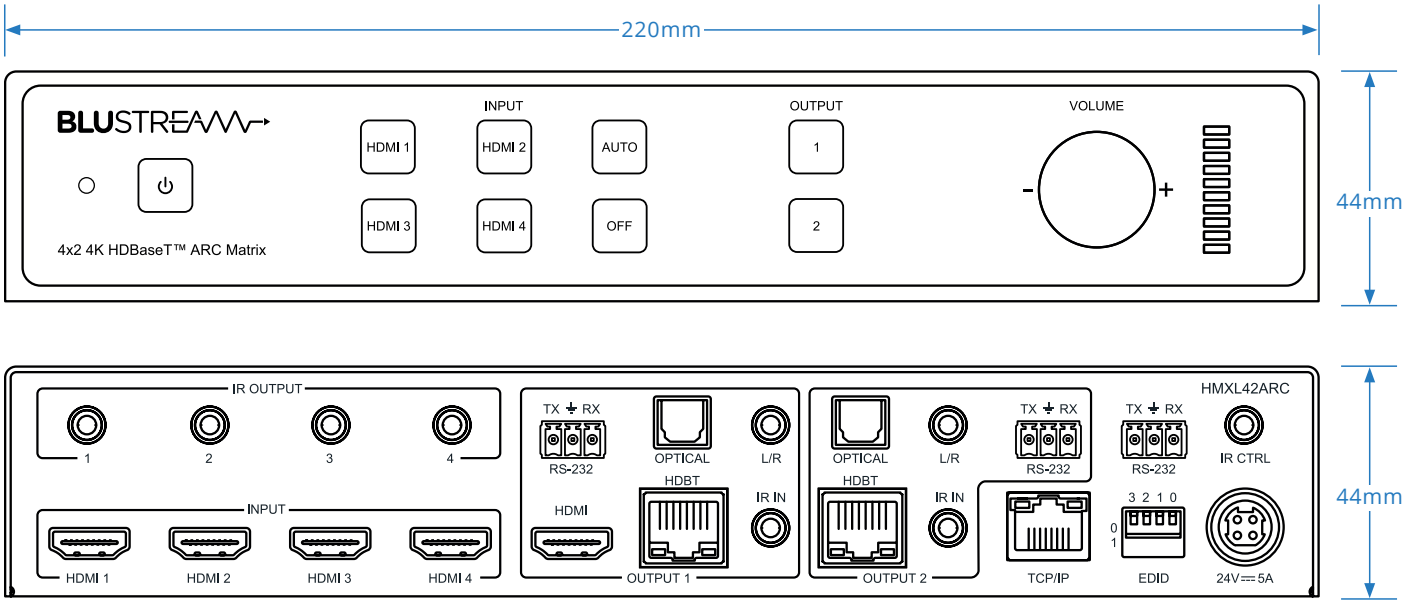
Description

Our Essential 4x2 HDBaseT™ Matrix offers unprecedented performance and value for the custom installation market.

The HMXL42ARC-KIT is a HDMI2.0 4K60Hz 4:4:4 HDCP2.2 Matrix package utilising CSC technology to deliver HDMI, Bi-directional IR and PoC up to lengths of 70m over a single CAT cable.

The Matrix also provides advanced features including simultaneous HDBaseT™/HDMI on output 1, video Smart Scaling on HDBaseT outputs, manual or auto source selection, independent audio matrix and a web browser interface module for control and configuration of the Matrix.

The HMXL42CS-KIT is supplied with 2 x HDBaseT™ receivers.



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
- Features 4 x HDMI inputs which can be independently routed to 2 x HDBaseT™ outputs
- Output 1 features simultaneous HDMI and HDBaseT™ output
- Video Smart Scaling on HDBaseT™ outputs allowing a display only capable of supporting lower video resolutions (4K 60Hz 4:2:0 or 1080p) to receive 4K 60Hz 4:4:4 video content while still showing maximum original 4K UHD resolution on remaining video outputs
- 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 digital HDMI audio formats including Dolby TrueHD, Atmos; DTS-HD Master Audio and DTS:X transmissions
- 8 x 2 audio matrix that is independently controllable from video.
- Audio source inputs include:
  - 4 x audio breakout from HDMI source
  - 2 x audio breakout from zone outputs
  - 2 x ARC from zone outputs
- Audio breakout to analogue L/R audio and optical digital (S/PDIF) outputs concurrently with line level volume control on analogue outputs
- Audio breakout features selectable source from zone audio breakout or ARC from zone outputs via HDMI ARC or optical ARC
- Web interface module for control and configuration of matrix
- Supports bi-directional IR on all HDBaseT™ outputs
- Supports PoC (Power over Cable) to power supplied RX70CS HDBaseT™ receivers
- 3rd Party drivers available for all major control brands
- Advanced EDID management
- HDCP 2.2 compliant
- Supplied with 2 x RX70CS HDBaseT™ receivers

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Connectivity

- Video Input Connectors: 4x HDMI Type A, 19-pin, female
- Video Output Connectors: 1x HDMI Type A, 19-pin, female, 2x HDBaseT™ RJ45 connector
- Audio Input Connectors: 2x Analogue audio L/R (3.5mm stereo Jack), 2x Optical (SPDIF)
- RS-232 Serial Ports: 1x 3-pin Pheonix connector
- TCP/IP Control: 1x RJ45, female
- IR Input Ports: 3x 3.5mm stereo jack
- IR Output Ports: 4x 3.5mm mono jack

Specifications

- Rack Mountable: 1U rack height, rack ears included
- Casing Dimensions (WxDxH): 220mm x 235mm x 44mm (without feet)
- Shipping Weight: 4.5kg
- Operating Temperature: 32°F to 104°F (0°C to 40°C)
- Storage Temperature: -4°F to 140°F (-20°C to 60°C)
- Power Supply: 1x 24V/5A DC

Included Accessories

IR Accessories	4 x IRE1, 3 x IRR
RS-232 Accessories	1x Serial Cable - DB9 to 3-pin Phoenix connector
IR Remote	1 x Remote control
Rack Mount	2 x Rack Mount Ears, 2 x Shelf Mount Brackets
Power Supply	1 x 24V/5A

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

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 do not support HDR10+ or the dynamic variation of Dolby Vision due to the way these specific variations of dynamic HDR (dHDR) are encoded. These codecs transmit repeated metadata packets throughout the transmission of any media making it impossible at this stage to convert in the same way using CSC technology.