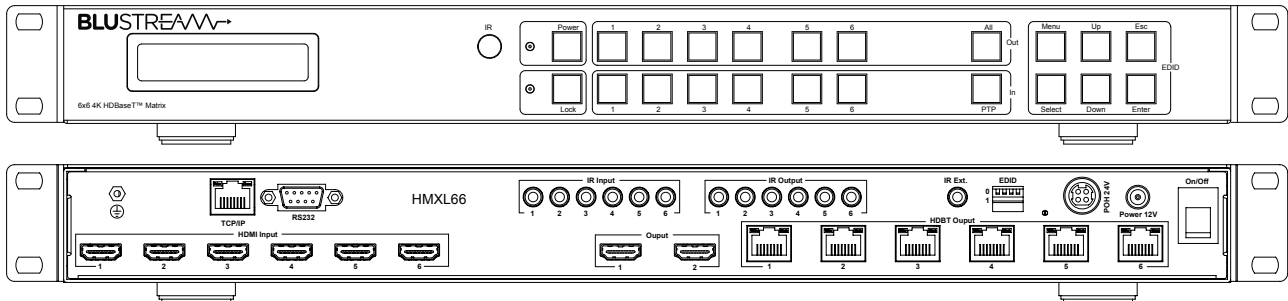


HMXL66

Quick Reference Guide



Introduction

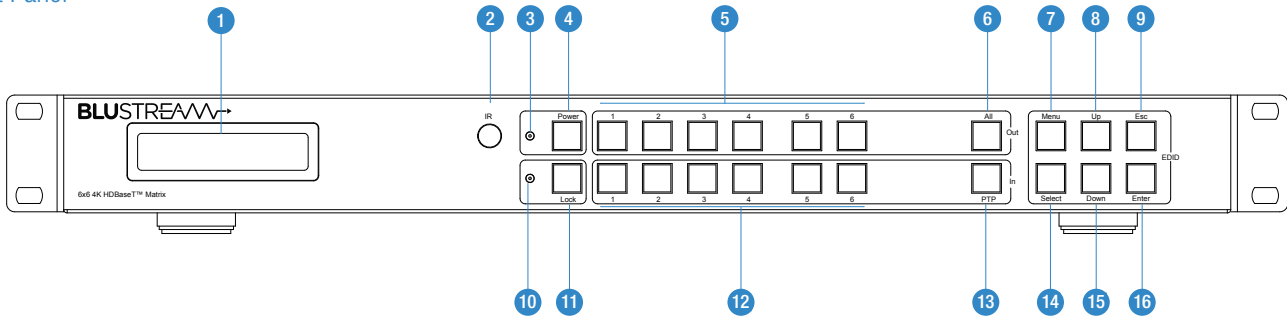
Our essential 6x6 HDBaseT™ Matrix offers unprecedented performance and value for the custom installation market. The HMXL66 is a 4K 6x6 matrix with a combination of 6 x HDBaseT™ and 2 x HDMI outputs (Outputs 1 and 2 feature simultaneous HDBaseT™/HDMI outputs). This allows for cost-effective integration of local displays or AV receivers within an installation. The matrix delivers 1080p HDMI, Bi-directional IR and PoH (PoE) up to lengths of 70m over a single CAT cable. The HMXL66 Matrix can be seamlessly integrated into 3rd party control systems using RS-232, TCP/IP and Infrared and features a web browser interface module for control and configuration of the Matrix.

Key Features

- Features 6 x HDMI inputs which can be independently routed to 6x HDBaseT™ outputs
- Outputs 1 and 2 feature simultaneous HDMI and HDBaseT™ outputs
- Extends HDMI up to a distance of 70m 1080P over single CAT cable
- Supports 4K UHD video up to 40m (3840 x 2160 @30Hz 4:4:4, 4096 x 2160 @24Hz 4:4:4, and 4K @60Hz 4:2:0)
- Supports all industry standard video resolutions including VGA-WUXGA and 480i-4K
- Supports 3D signal display
- Supports all known HDMI audio formats including Dolby TrueHD, Dolby Atmos, Dolby Digital Plus and DTS-HD Master Audio transmission
- Supports bi-directional IR on all HDBaseT outputs
- Control via front panel, IR, RS-232, and TCP/IP
- Web interface module for control and configuration of the Matrix
- IOS™ and Android™ control and configuration apps available
- Supports PoH (Power over HDBaseT™) to power compatible HDBaseT™ receivers
- 3rd Party drivers available for all major home control brands
- Advanced EDID management
- 1U Design for 19" rack mount integration - mounting kit included
- HDCP 1.4 compliant

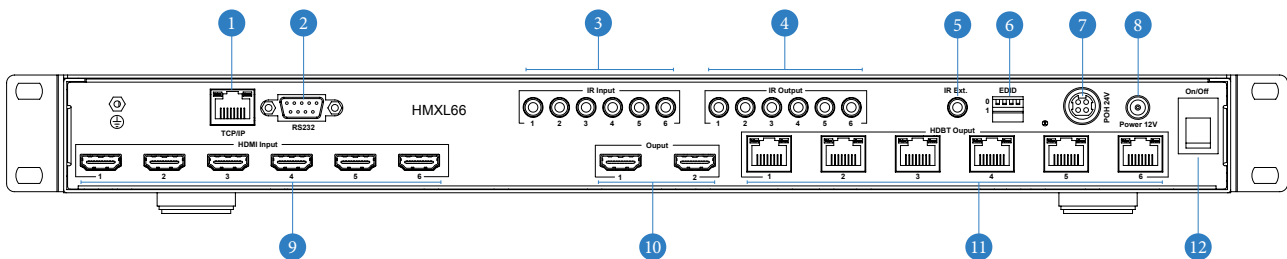
Panel Descriptions

Front Panel



- 1 LCD display – Shows the status of input/output selection, EDID etc.
- 2 IR receiver window.
- 3 Power LED indicator.
- 4 Power button – Press to power on/off the Matrix.
- 5 HDMI output selection button 1 to 6 – To select the output from 1 to 6.
- 6 All button for HDMI outputs – All outputs will work as one (Selects all outputs).
- 7 Menu button – Press to enter EDID set mode.
- 8 Up selection button - Press to change segment's value.
- 9 ESC – Press to quit EDID set mode.
- 10 Lock indicator.
- 11 Lock button – Press to lock the buttons of the front panel.
- 12 HDMI input selection button 1 to 6 – Press to select the input from 1 to 6.
- 13 PTP button – Press to mirror all inputs and outputs (e.g. output 1 to input 1, output 2 to input 2).
- 14 Selection button – Press to select current setting.
- 15 Down selection button – Press to change segment's value.
- 16 Enter button – Press to set EDID to specified INPUT or copy EDID from specified OUTPUT to specified INPUT.

Rear Panel



- 1 TCP/IP (RJ45) – Connect to LAN for TCP/IP control of Matrix.
- 2 RS-232 port - For control of the Matrix from from PC or third party control processor.
- 3 IR inputs 1 to 6 – 3.5mm stereo jack (IR sensor or control processor input). Sends 5V IR out to corresponding zones HDBT IR Tx port to control the zones TV/ local hardware.
- 4 IR outputs 1 to 6 – 3.5mm stereo jack for routed IR 5V emitter outputs for discrete source control, determined by the source input selected in that zone.
- 5 IR extension receiver input – 3.5mm stereo plug input for connection of a remote IR 5V sensor or control processor for remote IR control of the matrix.
- 6 EDID DIP switch – Used for global EDID settings .
- 7 POH power port – Use included 24V/6A DC adaptor to power the remote HDBaseT receivers.
- 8 Power port – Use included 12V/5A DC adaptor to power the matrix switcher.
- 9 HDMI inputs 1 to 6 – Connect HDMI sources.
- 10 HDMI outputs 1 to 2 – Output for displays (Outputs linked to HDBaseT Outputs 1 & 2).
- 11 HDBT outputs 1 to 6 – Output for displays.
- 12 Power switch - On/Off control.

Understanding the Matrix / Receiver status lights

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

Understanding the status lights:-

Blustream Matrix:

- 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 Matrix 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 Matrix and HDBaseT Receiver
- The Green HDBaseT link light will be lit when there is an active HDBaseT Receiver connected to the Matrix
- 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 Matrix and HDBaseT receiver
- The HDBaseT link light will be lit when a CAT cable is connected to the HDBaseT RJ45 output on the Matrix 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 then from this information the source will discover what the best audio and video resolutions need to be outputted.

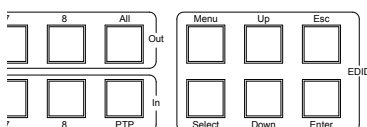
While the objective of EDID is to make connecting a digital display to a source a simple plug and play procedure issues do arise when multiple displays or video matrix switching is introduced because of the increased number of variables.

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 Matrix EDID settings can be achieved in one of three ways:-

- 1 Using Matrix Front Panel Buttons (See below)
- 2 Using EDID dip-switches located on the rear of the Matrix (For further details see 'HMXL66 User Manual')
- 3 Using Supplied Blustream Matrix IR Remote Control (For further details see 'HMXL66 User Manual')

To change the input signal type using the Matrix front panel buttons press the following:-



Using Matrix Front Panel Buttons

- a. Press MENU button
- b. Panel will display 'EDID settings'. Press SELECT button
- c. Select the input you wish to fix the EDID on (1-8) or select 'All'. Use UP/DOWN buttons to toggle selection and SELECT button to confirm
- d. Select video resolution required (4K, 1080p, 3D etc). Use UP/DOWN buttons to toggle selection and SELECT button to confirm
- e. Select audio resolution required (2CH, 5.1 or 7.1). Use UP/DOWN buttons to toggle selection and SELECT button to confirm
- f. Press the ESC button to exit

Specifications

Video Input Connectors: 6x HDMI Type A, 19-pin, female, locking

Video Output Connectors: 2x HDMI Type A, 6x HDBaseT™ RJ45 connector

RS-232 serial port: 1x DB 9 connector

TCP/IP control: 1x RJ45, female

IR Input ports: 7x 3.5mm stereo jack

IR Output ports: 6x 3.5mm mono jack

Dimensions (W x H x D): 438mm x 300mm x 43mm

Shipping Weight: 2.7Kg

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 12V DC/5A, 1x 24V DC/6A

NOTE: Specifications are subject to change without notice.

Package Contents:

- 1 x HMXL66
- 1 x Rack mounting kit
- 1 x 24V/6A power supply
- 1 x 12V/5A power supply
- 1 x Remote control
- 1 x IRR Blustream 5V IR receiver
- 7 x IRCAB Blustream IR control cables - 3.5mm-3.5mm cable
- 6 x IR1 Blustream 5V IR emitters
- 1 x Quick Reference Guide

Maintenance

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

For the full Blustream HMXL66 User Manual please visit the download area of our website www.blustream.co.uk