

# HMXXARC Installation and Usage Guide



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## Overview

This driver is designed to work with the HMXL66ARC, HMXL88ARC and similar products

The HMXL88ARC HDBaseT™ Matrix delivers new levels of advanced audio integration into our Essential range of 4K video matrix solutions. The HMXL88ARC is an 8x8 HDMI 2.0 4K 60Hz 4:4:4 matrix that uses CSC (Colour Space Conversion) technology to deliver 18Gbps HDMI over distances of up to 40m (1080p to 70m).

The HMXL88ARC features enhanced audio routing via an integrated 26x8 audio matrix. This enables the audio both from displays and sources, to be embedded and routed through the system at the users discretion.

The HMXL88ARC includes a simultaneous HDBaseT™ / HDMI output on output 1, video smart scaling on all HDBaseT™ outputs, and PoC (Power over Cable) to the remote RX70CS HDBaseT™ receivers. A in-built web browser interface for configuration and control of the Matrix, along with RS-232 and IR pass-through to enable seamless 3rd party control integration.

## 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 8 x HDMI inputs which can be independently routed to 8 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 and 1080p video up to 70m
- 26x8 Audio Matrix independently controllable from video. Audio source inputs include:
  - 8 x audio breakout from HDMI source inputs
  - 8 x audio breakout from zone outputs
  - 8 x ARC from zone outputs\*
  - 1 x Optical and 1 x Analogue audio input
- Supports bitstream passthrough of multichannel surround sound including object-based audio formats in line with HDMI specifications
- Web interface module for control and configuration of matrix
- Supports bi-directional IR and RS-232 on all HDBaseT™ outputs
- Control via front panel, IR, iOS / Android App, RS-232 and TCP/IP
- Supports 24V PoC (Power over Cable) to power compatible Blustream RX70CS receivers
- Supplied with Blustream IR receivers and emitters
- Advanced EDID management and HDCP 2.2 compliant

\*ARC feature supports HDMI ARC or Optical ARC

\*PoC, CSC, and ARC feature compatible with RX70CS only

**NOTE:** This driver offers basic IP and RS232 control over the HMXL models.

1. Add driver to project
2. If you plan on using ARC audio please set up the ARC Type in the driver's properties (From either Optical or HDMI).
3. Click on Connections
4. Bind any Audio or Video connections to the appropriate devices. Note that Control4 does not officially support HDMI ARC. As such these connections are represented as digital coax and stereo inputs. Most TV drivers have either digital digital coax or stereo outputs so please bind these if you plan to utilise ARC.
5. If you plan to utilise the audio outputs please bind the audio and video's audio endpoints.
6. For control If you are using serial bind it here otherwise If you are using IP click on Network and enter the IP address in.
7. Refresh Navigators

### **Additional Functionality**

If you want you can also set the unit to power down/up if no rooms are active. This is done through the properties. Alternatively you can program this via an action on events such as security system armed or disarmed so that you save some power whilst away from home.

## FAQ

### **Which models does this support?**

This driver is designed to work with the HMXL66ARC, HMXL88ARC and similar products

### **How much does this driver cost?**

This driver is sponsored by Blustream and is FREE of charge

### **Who do i contact for driver support?**

Please email [support@blustream.com.au](mailto:support@blustream.com.au) for technical support queries.

[Find out more about the Blustream HMXL range](#)

## Change Log

### **Version #20240715 - 15-JUL-2024**

- Fixed issue effecting switching to analog audio input.

### **Version #20240521 - 21-MAY-2024**

- Fixed bug causing power on command not being sent if logging is enabled.

### **Version #20220518 - 18-MAY-2023**

- Updated driver so that power on delay only fires a single time.

### **Version #20220308 - 8-MAR-2022**

- Changed AUDIO xx ON and AUDIO xx OFF to AUDOUT xx ON and AUDOUT xx OFF

### **Version #20220203 - 3-FEB-2022**

- Added code in to force reconnection to HMXL device if HMXL does not respond to commands but still maintains a connection.

### **Version #20200913 - 13-SEP-2021**

- Updated to latest API version. Note this is not compatible with older firmwares so please update to the latest firmware revision.

### **Version #20200713- 13-JUL-2021**

- Fixed issue with ARC input off by 1

### **Version #20200622- 22-JUN-2021**

- Added ability to select ARC type between optical and HDMI.
- Fixed issue with volume down

### **Version #20200531 - 31-MAY-2021**

- Initial Release