

8 x 8 HDMI Matrix over 150m CAT5e/6/7  
 18G, HDMI 2.0, HDCP 2.2  
 4K/60Hz 4:4:4, HDR (HLG)



### Key Features

- 8 x Inputs to 8 x Outputs
- 8 x HDMI Mirrored Outputs
- 18G, 4K/60Hz, 4:4:4
- HDMI 2.0b, HDCP 2.2
- Dolby Vision, HDR10, HDR-HLG
- Dolby Digital Plus, DTX-X, True HD
- Downscaling from 4K to 1080p
- Analogue Audio Extraction
- PoC (Power over Cable)
- Control: RS232, TCP/IP, Web Interface

### Description

The SC40.MX88 matrix is packed with many features and delivers stunning Ultra HD video up to 150m over CAT5e/6/7 cable. Each HDMI source and accompanied IR signal can be routed to any display simultaneously. The CAT5 output has a mirrored HDMI output which can be used for recording or simply connecting an additional display for rooms where the source can be shared such as a bedroom with on-suite.

In addition to the HDMI mirrored outputs the matrix also provides separate switched analogue audio outputs for connecting to amplifiers supplying audio via a separate sound system. The receivers are (PoC) powered over the CAT5 cable so there's no need for additional power adaptors behind the screens. The receivers can be connected up to 150m from the matrix and still provide zero latency, 4K/60Hz images without requiring any adjustments.

Bi-Directional IR is provided for controlling the source devices from the remote locations and controlling the screens from the matrix. Each zone simply selects the required input using the IR remote control provided and then uses the third party remote control to control the source device. These IR signals are routed with the HDMI signal eliminating any possibility of controlling two devices at the same time.

The matrix also has local control using either IR, the front panel buttons, RS232 and web browser making it easy to link up with third party smart home controllers such as RTL, Crestron, Control4 and more. Our SC40.MX88 matrix supports the latest industry standards including HDMI 2.0b HDCP 2.2, HDR10, 4K/60Hz, YUV 4:4:4 and comes with a 2 years manufactures warranty. The package includes 8 x receivers and all the IR transmit and receiver cables needed to complete your installation.

## Specifications

### MATRIX

#### Connections

**HDMI Input:** 8 x HDMI Type-A, 19-Pin Female  
**HDMI Output:** 8 x RJ45 Data Socket  
**Mirrored HDMI Output:** 8 x HDMI Type-A, 19-Pin Female  
**Analogue Audio Output:** 8 x 5-Pin Phoenix Terminal  
**Digital Audio Output:** 8 x RCA Jack (Coax)  
**Infrared Input:** 9 x 3.5mm Jack Socket  
**Infrared Output:** 9 x 3.5mm Jack Socket  
**RS232 Control:** 1 x DB9 Socket  
**Ethernet:** 1 x RJ45 Data Socket  
**Power:** IEC Mains Inlet (Switched)

#### Signals

**Signal Input:** HDMI  
**Standards:** HDMI 2.0b, HDCP 2.2, CEC  
**Bandwidth:** 18Gbps  
**Video Resolutions:** 4K/60Hz, 4:4:4  
**Colour Space:** RGB/YCbCr 4:4:4, YCbCr 4:2:2, YUV 4:2:0, HDR, HDR 10+, DLD, Dolby Vision  
**Colour Depth:** 8/10/12-bit  
**HDMI Audio:** LPCM 7.1, Dolby True HD, Dolby Digital Plus (DD+), DTS-ES, DTS-HD Master, DTS HD-HRA, DTS-X  
**L/R Stereo Audio:** PCM 2.0CH  
**Coax Audio:** PCM 2.0, Dolby Digital / Plus, DTS 2.0/5.1  
**Infra-Red:** Wide Bandwidth, Frequency 30KHz to 56KHz (940nm)

#### Power

**Input:** 100~240V AC 50/60Hz  
**Consumption:** 125 Watts (Max)

#### Environment

**Operating Temperature:** 0° to 40°C  
**Storage Temperature:** -20° to 60°C  
**Operating Humidity:** 20 to 90% RH (no condensation)  
**Dimensions:** (W) 440 x (D) 374 x (H) 88  
**Weight:** 6.5kg  
**Colour:** Black  
**ESD:** Human Body - +/-8kV, (air gap discharge) & +/-4kV (contact discharge)  
**Safety and Emissions:** CE, FCC, RoHS

## Specifications

### Receiver

#### Connections

**HDMI Input:** 1 x RJ45 Data Socket  
**HDMI Output:** 1 x HDMI Type-A, 19-Pin Female  
**Analogue Audio Out:** 1 x 3.5mm Stereo Jack Socket  
**Infrared Input:** 1 x 3.5mm Jack Socket  
**Infrared Output:** 1 x 3.5mm Jack Socket  
**RS232:** 3-Pin Phoenix  
**Power:** 1 x DC Jack (not needed when connected to a matrix)  
**Firmware Upgrade:** 1 x Micro USB

#### Signals

**Signal Input:** HDMI  
**Standards:** HDMI 2.0b, HDCP 2.2, CEC  
**Bandwidth:** 18Gbps  
**Video Resolutions:** 4K/60Hz, 4:4:4  
**Colour Space:** RGB/YCbCr 4:4:4, YCbCr 4:2:2, YUV 4:2:0, HDR, HDR 10+, DLD, Dolby Vision  
**Colour Depth:** 8/10/12-bit  
**HDMI Audio:** LPCM 7.1, Dolby True HD, Dolby Digital Plus (DD+), DTS-ES, DTS-HD Master, DTS HD-HRA, DTS-X  
**L/R Stereo Audio:** PCM 2.0CH  
**Infra-Red:** Wide Bandwidth, Frequency 30KHz to 56KHz (940nm)

#### Power

**Input:** 24V D.C.  
**Consumption:** 7 Watts

#### Environment

**Operating Temperature:** -5° to 40°C  
**Storage Temperature:** -10° to 60°C  
**Operating Humidity:** 5 to 90% RH (no condensation)  
**Dimensions:** (W) 140 x (D) 65 x (H) 18  
**Weight:** 155g  
**Colour:** Black  
**ESD:** Human Body - +/-8kV, (air gap discharge) & +/-4kV (contact discharge)  
**Safety and Emissions:** CE, FCC, RoHS