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Thank you for purchasing this product.

For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.



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Surge protection device recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

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Introduction

Our MX42AB 4K HDMI matrix individually distributes four HDMI sources to two displays enabling all sources to be viewed seamlessly as required within a matrix configuration. The unit transmits all HDMI resolutions up to and including 4K. The 4-Way matrix also includes the advanced features of audio breakout, RS-232 control and EDID management.

FEATURES:

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- Supports resolutions up to 1080p@60HZ,48-bit deep color, 4K@60 hz
- Allows any source to be displayed on multiple displays at the same time
- Allows any HDMI display to view any HDMI source at any time
- Dolby TrueHD and DTS-HD master audio pass through HDMI output

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- Advanced EDID management for rapid integration of sources and displays. See below table
- Extract audio from HDMI output via RCA (S/PDIF) and L/R analogue audio (From PCM audio on the HDMI feed).
- Multiple switching mode, front panel control, IR remote control and RS-232 control
- Easy installation with rack-mounting ears
- Full 3D pass- through.
- HDCP compliant



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- IR receiver window Receive the IR from the remote control of MX42AB.
- 2 Power LED indicator Indicate the power state of the matrix.
- 3 HDMI output selection button 1 and 2 Press to select the desired source input for the marked output zone 1 and 2
- Input LED indicator Indicates the selected source in the zone output.



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- matrix on/off
 - HDMI inputs 1 to 4 Connect HDMI sources

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Remote Control Description

OUTPUT AND INPUT SELECTION

- A Selects the zone OUTPUT you wish to change the source on (Numbers 1 - 2 correspond to the zone outputs 1 - 2)
- B Selects the source INPUT you wish to change on the selected zone (Numbers 1 - 4 correspond to the source inputs 1 - 4)

EXAMPLE

To switch source 2 to zone 1 you would press 1 in the output section (A) followed by pressing 2 in the Input section (B).

ALL button: The all button selects all the inputs or outputs in its corresponding box. Example: (The "All" button in the Output box selects all the zones so all zones will change to what source input is selected next)

PTP: This button will align all the zone outputs with the like numbered source inputs. Example: Input 1 to output 1, input 2 to output 2, etc

EDID SET UP

The MX42AB provides a comprehensive range of EDID settings. Below are three ex-

amples of how to deploy the desired EDID setting when using the supplied remote.

- A. Fix EDID to an INPUT or ALL inpus: Press the desired video resolution button (1080I / 1080P / 3D / 4K), then select the desired audio format (2.0CH / 5.1CH / 7.1CH), then select the source input you want this EDID information allocated to by pressing the INPUT 1 – 4 or the ALL button
- B. Copy EDID of OUTPUT-X to an INPUT or ALL: Press the COPY button then select the OUTPUT you wish to copy the EDID information from, then select the source input you want to copy this EDID to by selecting the INPUT 1-4 or the ALL button.
- C. User defined EDID to an INPUT or ALL inputs: Press USER1 / USER2 button then select the source you wish to assign this EDID to by selecting INPUT 1-4 or the ALL button

NOTE: The button press sequence should be finished in 5 seconds, otherwise the operation is discarded.

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POWER OUTPU 1 2 ALL PTP INPUT 4 1 2 3 ALL 1080 1080P 3D 4K 2.0CH 5.1CH 7.1CH COPY USER1 USER2 FN1 FN2 EDID EDID

Please use Blustream 5v emitters

3.5mm stereo Audio jack enabling the use of an external IR sensor for

IR extension receiver input –

control of the matrix

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contact support@blustream.co.uk / support@blustream.com.au

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Specifications

Video Input Connectors: 4x HDMI Type A, 19-pin, female, locking Video Output Connectors: 2x HDMI Type A, 19-pin, female, locking Audio Output Connectors: 2x RCA (SPDIF), 2x Audio 3.5mm stereo jack RS-232 serial port: DB-9, female IR Input ports: 3x 3.5mm stereo jack IR Output ports: 4x 3.5mm mono jack Casing Dimensions (W x H x D): 260mm x 39mm x 105mm, without feet Dimensions Including Connections (W x H x D):

260mm x 49mm x 115 mm, with feet Shipping Weight: 1.0kg 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 5V/0.5A DC power supply

RS232 Pin Assignment

MT0404-A40		REMOTE CONTROL CONSOLE	
PIN	Assignment	PIN	Assignment
1	NC	1	NC
2	Tx	2	Rx
3	Rx	3	Тх
4	NC	4	NC
5	GND	5	GND
6	NC	6	NC
7	NC	7	NC
8	NC	8	NC
9	NC	9	NC

Baud Rate: 57600 bps Data Bit: 8-bit Parity: None

Stop Bit: 1-bit Flow Control: None

EDID Control

EDID (Extended Display Identification Data) is a data structure that is used between a display and 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 determine what the best audio and video resolutions are 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 we can remove some of the EDID hand shaking process thus making switching quicker and more reliable. Instructions on these setting can be found on the right

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[DIP]=0000: HDMI 1080p@60Hz, Audio 2CH PCM
[DIP]=0001: HDMI 1080p@60Hz, Audio 5.1CH PCM/DTS/DOLBY
[DIP]=0010: HDMI 1080p@60Hz, Audio 7.1CH PCM/DTS/DOLBY/HD
[DIP]=0101: HDMI 1080i@60Hz, Audio 2CH PCM
[DIP]=0101: HDMI 1080i@60Hz, Audio 5.1CH PCM/DTS/DOLBY/HD
[DIP]=0110: HDMI 1080p@60Hz/3D, Audio 2CH PCM
[DIP]=0111: HDMI 1080p@60Hz/3D, Audio 5.1CH PCM/DTS/DOLBY
[DIP]=1001: HDMI 1080p@60Hz/3D, Audio 5.1CH PCM/DTS/DOLBY
[DIP]=1001: HDMI 1080p@60Hz/3D, Audio 5.1CH PCM/DTS/DOLBY
[DIP]=1001: HDMI 1080p@60Hz/3D, Audio 7.1CH PCM/DTS/DOLBY/HD
[DIP]=1001: HDMI 4K2K, Audio 2CH PCM
[DIP]=1011: HDMI 4K2K, Audio 5.1CH PCM/DTS/DOLBY/HD
[DIP]=1011: HDMI 4K2K, Audio 7.1CH PCM/DTS/DOLBY/HD
[DIP]=1011: DVI 1280x1024@60Hz, Audio None
[DIP]=1110: DVI 1920x1200@60Hz, Audio None

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MX42AB USER MANUAL





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