

Operating Instructions

Thanks for purchasing our product.

Please be sure to read this instruction manual
carefully before using our product.



Introduction

HDTV-MX44 is an 4-by-4 HDMI matrix. It allows any of the four Input Channels (HDMI) to be routed to any of the four Output Channels (HDMI), no matter the source is HDCP or not. Users can choose several different ways to control the matrix: by using Button, RS232, and supplied remote control.

HDTV-MX44 internal EDID library features default EDID configurations, in addition to native EDID data for any output/display.

HDTV-MX44 offers solutions for digital entertainment center, HDTV retail and show site, HDTV, STB, DVD and projector factory, noise, space and security concerns, data center control, information distribution, conference room presentation, school and corporate training environments.

HDMI Matrix (Routing Type)

■ Product Overview



Dear customer

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.

■ Features

- Allows up to four HDMI audio/video devices to be independently switched to four HDMI monitors, HDTV's, or projectors.
- The four output channels could show the same or different source simultaneously no matter the source is HDCP or not.
- Reading and saving EDID function from displays.
- Support high definition resolutions, including: 4K2K@30Hz, 1080p, 3D, 1080i, 720p and other standard video formats.
- Each port support both HDMI and DVI inputs.
- With extra infrared extension receiver.
- Three switching modes: panel buttons, local IR, RS232.
- HDMI 1.4 supported.
- Channel switching time within two seconds.

Notice

HDTV Supply Inc. reserves the right to make changes in the hardware, packaging and any accompanying documentation without prior written notice.

Warning

To reduce the risk of fire, electric shock or product damage:



1. Do not expose this apparatus to rain, moisture, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.



6. Clean this apparatus only with dry cloth.



2. Do not install or place this unit in a bookcase, built-in cabinet or in another confined space. Ensure the unit is well ventilated.



7. Unplug this apparatus during lightning storms or when unused for long periods of time.



3. To prevent risk of electric shock or fire hazard due to overheating, do not obstruct the unit's ventilation openings with newspapers, tablecloths, curtains, and similar items.



8. Protect the power cord from being walked on or pinched particularly at plugs.



4. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



9. Only use attachments / accessories specified by the manufacturer.



5. Do not place sources of naked flames, such as lighted candles, on the unit.



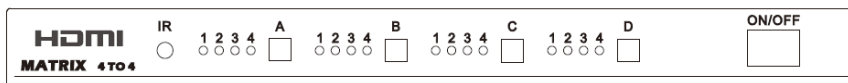
10. Refer all servicing to qualified service personnel.

■ Package Contents

- ① 1x Main unit. P/N_ HDTV-MX44.
- ② 1x Remote.
- ③ 12V/DC Power Supply.
- ④ IR Extended receiving cable
- ⑤ RS232 cable
- ⑥ Operating Instructions. P/N_INS HDTV-MX44.

 **NOTE:** CD-ROM including Operating instructions and PC control software

■ Panel Descriptions

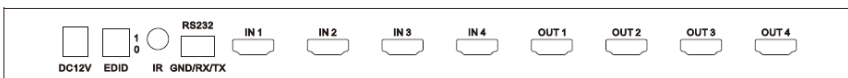


A B C D : the output port A B C D

1 2 3 4 : the input port 1 2 3 4

IR : Remote accept head

ON/OFF : Power switch.



DC12V : Power

RS232 : PC control port

IN 1 2 3 4 : HDMI input

OUT 1 2 3 4 : HDMI output

IR : IR Extend input

EDID: EDID Selector

NOTE:

switch			EDID	switch			EDID
1	1	1	1080P	0	1	1	3D 2CH
1	1	0	1080P 2CH	0	1	0	3D 6CH
1	0	1	1080P 6CH	0	0	1	3D 8CH

1	0	0	1080P 8CH	0	0	0	4K x 2K
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Matrix RS232 Control Software Instruction

COM Select : Choose the matched COM port; click the Connect Button, then
Connect button will go bright. Control software begin being under control.

Message Receive : Show the print info that the device feedbacked.

Status: Refresh current status info.

Clear : Delete the print info at the window.

EDID Setting : For preset the best EDID

Button 1-4 : Represent the four output 1-4

Button 1-4 : Represent the chosen Input source, the bright number represent the
current chosen input source.

Control Way : For example, if you want to choose the Input 2 to output by the
Output 3 port, you can click the Number 2 below Letter C, then it will be ok.

Serial Port Protocol


**Serial Port Protocol Format: Lenght+Start Code(0x55)+Instrucion Code+Parameter(It can
be without)+Finish Code(0x77)**

Command (hex)	feedback	description
04 55 20 77	\r\n s1x s2x s3x s4x EEx	To get the output port working status and the EDID status.
05 55 19 09 77	s10	Output 1 chosen the input 1
05 55 19 1D 77	s11	Output 1 chosen the input 2
05 55 19 1F 77	s12	Output 1 chosen the input 3
05 55 19 0D 77	s13	Output 1 chosen the input 4
05 55 19 17 77	s20	Output 2 chosen the input 1
05 55 19 12 77	s21	Output 2 chosen the input 2
05 55 19 59 77	s22	Output 2 chosen the input 3
05 55 19 08 77	s23	Output 2 chosen the input 4
05 55 19 5E 77	s30	Output 3 chosen the input 1
05 55 19 06 77	s31	Output 3 chosen the input 2
05 55 19 05 77	s32	Output 3 chosen the input 3

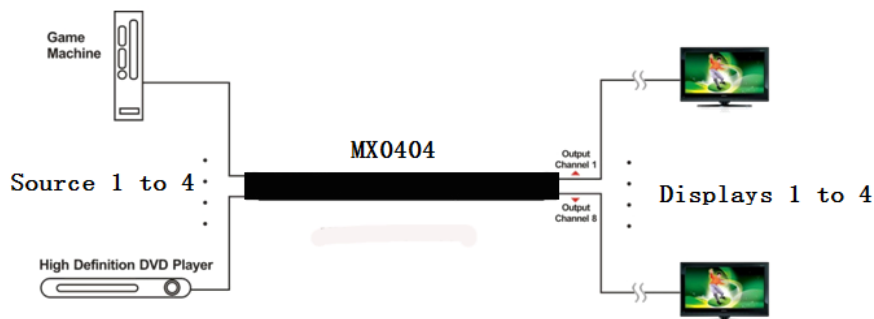
05 55 19 03 77	s33	Output 3 chosen the input 4
05 55 19 18 77	s40	Output 4 chosen the input 1
05 55 19 44 77	s41	Output 4 chosen the input 2
05 55 19 0F 77	s42	Output 4 chosen the input 3
05 55 19 51 77	s43	Output 4 chosen the input 4
06 55 17 05 01 77	S10s20s30s40	ALL chosen the input 1
06 55 17 05 02 77	S11s21s31s41	ALL chosen the input 2
06 55 17 05 03 77	S12s22s32s42	ALL chosen the input 3
06 55 17 05 04 77	S13s23s33s43	ALL chosen the input 4
05 55 18 05 77	EE5	EDID 2D 2CH
05 55 18 06 77	EE6	EDID 2D 5.1CH
05 55 18 07 77	EE7	EDID 2D 7.1CH
05 55 18 08 77	EE8	EDID 3D 2CH
05 55 18 09 77	EE9	EDID 3D 5.1CH
05 55 18 0a 77	EEa	EDID 3D 7.1CH

■ Specifications

Operating Temperature Range	0 to +35°C (32 to +95°F)
Operating Humidity Range	5 to 90 % RH (no condensation)
Input Video Signal	0.5-1.0 volts p-p
Input DDC Signal	5 volts p-p (TTL)
Video Format Supported	DTV/HDTV:3D/ 1080P/1080i/720P/ 576P/480P/576i/480i
Audio Format Supported	DTS-HD、Dolby HD
Output Video	HDMI 1.4
Maximum Transmission Distance	4K2K@30Hz 10m over HDMI cable
Power Consumption	24 Watts (Max.)
Dimensions	W320xH120xT30mm
Mass (Main unit)	850g

 **NOTE:** Specifications are subject to change without notice. Mass and dimensions are approximate.

■ Typical Application



■ Maintenance

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

■ Product Service

● Provided Service

- 1) **Damage Requiring service:** The unit should be serviced by qualified service personnel if:
 - The DC power supply cord or AC adaptor has been damaged;
 - Objects or liquids have gotten into the unit;
 - The unit has been exposed to rain;
 - The unit does not operate normally or exhibits a marked change in performance;
 - The unit has been dropped or the cabinet damaged.
- 2) **Servicing Personnel:** Do not attempt to service the unit beyond that described in these operating instructions. Refer all other servicing to authorized servicing personnel.
- 3) **Replacement parts:** When parts need replacing ensure the service uses parts specified by the manufacturer or parts that have the same characteristics as the original parts. Unauthorized substitutes may result in fire, electric shock, or other hazards.
- 4) **Safety check:** After repairs or service, ask the service to perform safety checks to confirm that the unit is in proper working condition.

● Mail-In Service

When shipping the unit, carefully pack and send it prepaid, adequately insured and preferably in the original carton. Include a letter detailing the complaint and provide a daytime phone and/or email address where you can be reached.

If repair is needed during the limited warranty period the purchaser will be required to furnish a sales receipt/proof of purchase indicating date of purchase, amount paid and place of purchase. Customer will be charged for the repair of any unit received without such proof of purchase.

● Warranty

If your product does not work properly because of a defect in materials or workmanship, Grandbeing Company (referred to as "the warrantor") will, for the length of the period indicated as

below, **(Parts (1) Year, Labor(90) Days)**which starts with the date of original purchase ("Limited Warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

During the "Labor" Limited Warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. You must mail-in your product during the warranty period. This Limited Warranty is extended only to the original purchaser and only covers product purchased as new. A purchase receipt or other proof of original purchase date is required for Limited Warranty service.

● **Warranty Limits and Exclusions**

- 1) This Limited Warranty **ONLY COVERS** failures due to defects in materials or workmanship and **DOES NOT COVER** normal wear and tear or cosmetic damage. The Limited Warranty **ALSO DOES NOT COVER** damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, maladjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or service by anyone other than a Factory Service Center or other Authorized Service, or damage that is attributable to acts of God.
- 2) There are no express warranties except as listed under "limited warranty coverage". The warrantor is not liable for incidental or consequential damages resulting from the use of this product or arising out of any breach of this warranty. (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, travel to and from the service location, loss of or damage to media or images, data or other recorded content. The items listed are not exclusive but are for illustration only.)
- 3) Parts and service, which are not covered by this limited warranty, are your responsibility.