



J-TECH DIGITAL®

USER MANUAL



4 INPUT 4 OUTPUT 4K 60HZ HDMI MATRIX

JTD-620 | JTECH-M44D

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE



J-TECH DIGITAL INC
12803 PARK ONE DRIVE
SUGAR LAND, TX 77478
TEL: 1-888-610-2818

E-MAIL: SUPPORT@JTECHDIGITAL.COM

THANK YOU FOR PURCHASING

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

SURGE PROTECTION DEVICE RECOMMENDED

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

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INTRODUCTION

The J-Tech Digital JTECH-M44D 4x4 HDMI matrix supports the transmission of HDMI video signals (up to 4K 60Hz 4:4:4) with multichannel digital audio formats from up to four UHD sources to four HDMI outputs. Each output supports down-scaling functionality. Outputs can mirror each other or display independently from any signal source.

FEATURES

- HDCP 2.2 Compliant
- Up to 4K@60Hz with 24-bit RGB/YCbCr 4:4:4
- HDR | HD10 | HDR10+ | Dolby Vision Pass-thru
- Supports LPCM 7.1CH | Dolby TrueHD | DTS-HD Master Audio Format
- Supports 4K 60Hz > 1080P 60Hz downscaling
- Advanced EDID Management
- Flexible Control via Front Panel or Included IR Remote Control

PACKAGE CONTENTS

- (1) x J-Tech Digital JTECH-M44D 4x4 HDMI Matrix
- (1) x 12VDC 2.5A Power Adapter
- (1) x IR Remote Control
- (2) x Mounting Brackets
- (1) x User Manual

SPECIFICATIONS

Technical	
HDCP Compliance	HDCP 2.2 / 1.4
Video Bandwidth	18Gbps
Video Resolution	480i through 1080p 50/60Hz 4Kx2K@24/30Hz 4K2K@60Hz
Color Space	RGB YCbCr 4:4:4 / 4:2:2 YUV 4:2:0
Color Depth	8/10/12-bit (1080p@60Hz)
	8-bit (4K@60Hz YUV4:4:4)
	8/10/12-bit (4K@60Hz YCbCr 4:2:2 / 4:2:0)
HDMI Audio Formats	LPCM 7.1CH Dolby TrueHD DTS-HD Master Audio
ESD Protection	Human-body Model: ±8kV (Air-gap discharge), ±4kV (Contact discharge)
Connections	
Inputs	4×HDMI Type A [19-pin female]
	1×IR Receiver Window
	1×Micro USB
Outputs	4×HDMI Type A [19-pin female]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	220mm(W)×205mm(D)×19mm(H)
Weight	535g
Power Supply	Input: AC100~240V 50/60Hz
	Output: DC 12V/2.5A (US/EU standard, CE/FCC/UL certified)
Power Consumption	11.04W
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Relative Humidity	20~90% RH (non-condensing)

OPERATION CONTROLS AND FUNCTIONS

FRONT PANEL



No.	Name	Function Description
1	IR	IR receive window
2	Power LED	The red LED illuminates when the device is working or on standby
3	OUT 1	Button: Short press to switch the input selected by OUT 1; Long press for 3s to turn on/off the downscaler corresponding to OUT 1.LED: When switching to the corresponding input source, the corresponding input LED illuminates green; Otherwise, the LED will not light up
4	OUT 2	Button: Short press to switch the input selected by OUT 2; Long press for 3s to turn on/off the downscaler corresponding to OUT 2.LED: When switching to the corresponding input source, the corresponding input LED illuminates green; Otherwise, the LED will not light up
5	OUT 3	Button: Short press to switch the input selected by OUT 3; Long press for 3s to turn on/off the downscaler corresponding to OUT 3.LED: When switching to the corresponding input source, the corresponding input LED illuminates green; Otherwise, the LED will not light up
6	OUT 4	Button: Short press to switch the input selected by OUT 4; Long press for 3s to turn on/off the downscaler corresponding to OUT 4.LED: When switching to the corresponding input source, the corresponding input LED illuminates green; Otherwise, the LED will not light up
7	SERVICE	Connect to PC via Micro to USB cable for firmware upgrade

BACK PANEL



No.	Name	Function Description
1	INPUT	Connect to HDMI source device such as DVD player or PC
2	OUTPUT	Connect to HDMI display device such as TV or Projector
3	EDID	EDID Dip Switch Settings
		0000 1080P, Stereo Audio 2.0
		0001 1080P, Dolby/DTS 5.1
		0010 1080P, HD Audio 7.1
		0011 4K2K30_444, Stereo Audio 2.0
		0100 4K2K30_444, Dolby/DTS 5.1
		0101 4K2K30_444, HD Audio 7.1
		0110 4K2K60_444, Stereo Audio 2.0 SDR
		0111 4K2K60_444, Dolby/DTS 5.1 SDR
		1000 4K2K60_444, HD Audio 7.1 SDR
		1001 4K2K60_444, Stereo Audio 2.0 HDR
		1010 4K2K60_444, Dolby/DTS 5.1 HDR
		1011 4K2K60_444, HD Audio 7.1 HDR
		1100 COPY OUTPUT 1
		1101 COPY OUTPUT 2
		1110 COPY OUTPUT 3
		1111 COPY OUTPUT 4
4	DC 12V	DC 12V Power Supply Interface

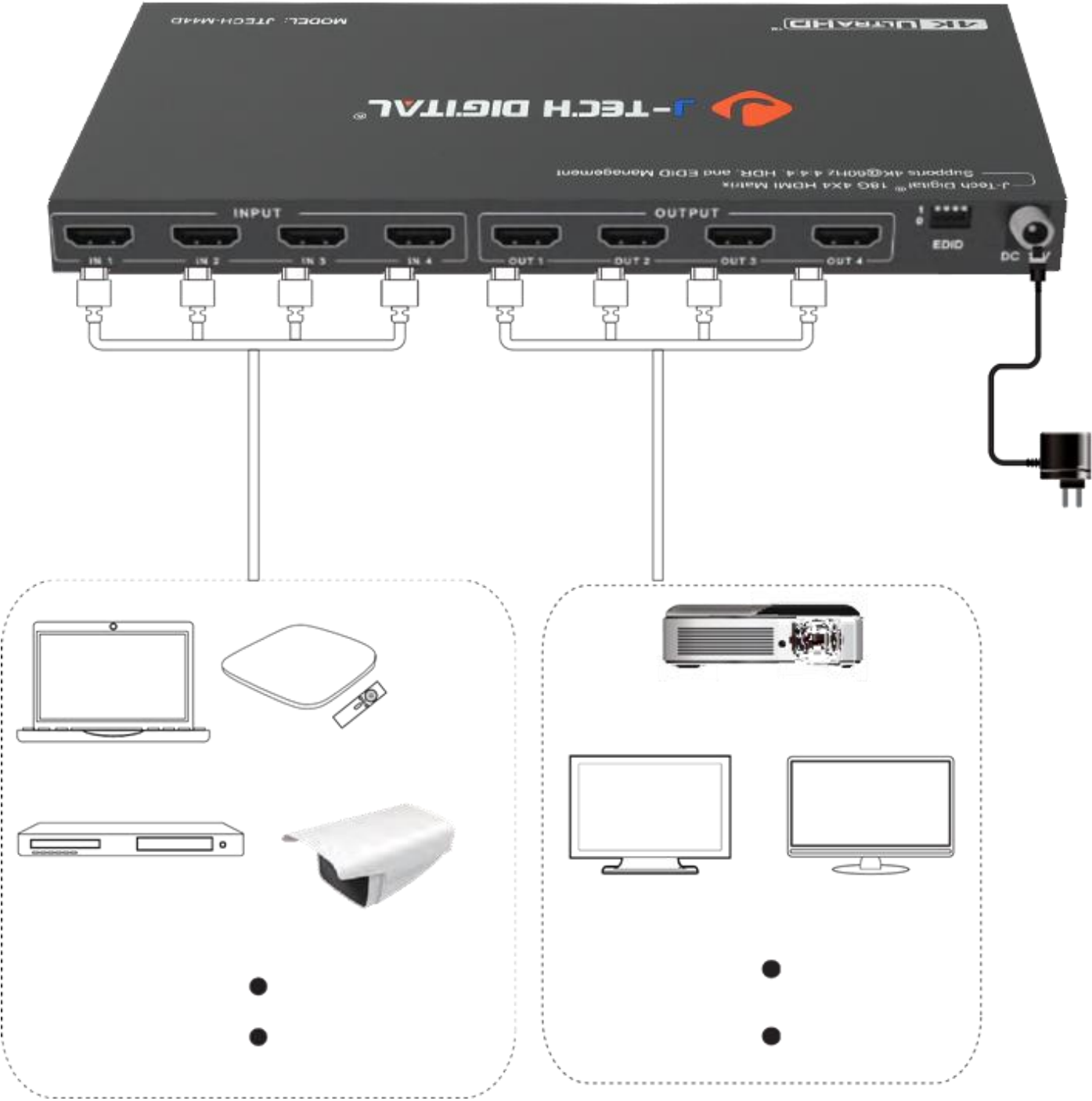
REMOTE CONTROL



No.	Name	Function Description
1	Power Button	Press this button to power on the device or put it in standby mode
2	1/2/3/4	Press buttons 1 – 4 to select the required source for Output 1
3	< >	Select the last or next input channel (1 – 4) to select the required source for Output 1
4	SD	Press this button to enable or disable the downscaler function

*Note - The corresponding output sections (Output 2 – 4) all share the same functions as Output section 1.

APPLICATION EXAMPLE





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