

4 x 4 HDMI Matrix Switcher Over CAT.X with IR

Part # AV-BPHDMIMK4X4



KEY FEATURES

- Allows any input source to be viewed on each display individually or simultaneously.
- Allows any HDMI display to view any HDMI source at any time.
- The matrix can switch every output channel to any HDMI inputs by push button, IR remote control, or RS-232 control.
- Extends HDMI transmission up to 60mtrs for a maximum HD resolution at 1080i.
- Extends HDMI transmission up to 50mtrs for a maximum HD resolution at 1080p.
- Supports 7.1 channel digital audio.
- Supports default HDMI EDID and learns the EDID of displays.
- Allows controlling local HDMI sources such as DVD and TiVo by attached IR extender from remote receiver to the matrix switch.
- Allows to control matrix unit through IR remote control at the remote receivers.
- Easy installation with rack-mounting and wall-mounting design for the matrix switch and the receivers respectively.
- Fast response time – 2~5 seconds for channel switch.

KIT CONTENTS

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|------------------------------|-------------------------------------|
| • 1 x BPHDMIMK4X4 [TX] | • 1 x Power Cord and Inline Adaptor |
| • 4 x BPHDMIMK4X4 [RX] | • 4 x IR Remote Controls |
| • 4 x IR Receiver (20-60kHz) | • 1 x Installation Software CD |
| • 1 x Rack-mounting ear set | • 1 x Instruction Manual |

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Specifications	AV-BPHDMIMK4X4	
TECHNICAL	AV-BPHDMIMK4X4 Transmitter	AV-BPHDMIMK4X4 Receiver
Roll of Usage	4 x 4 Matrix Switcher Transmitter [TX]	Receiver [RX]
HDMI Compliance	High Speed HDMI - Deep Colour & 3D Support	
HDCP Compliance	Yes	
Video Bandwidth	Single-Link 225MHz [6.75Gbps]	
Video Support	480i / 480p / 720p / 1080i / 1080p60 up to 36-bit colour	
Transmission over UTP cable (24-bit)	Full HD (1080p) - 40m [CAT.5e] / 50m [Cat6] HD (720p / 1080i) - 50m [CAT.5e] / 60m [Cat6]	
Audio Support	Surround Sound (Up to 7.1ch) or stereo digital audio	
Equalisation	[TX] N/A	[RX] 8-level digital rotary control
Input TMDS signal	1.2 Volts [peak-to-peak]	
Input DDC signal	5 Volts [peak-to-peak, TTL]	
ESD protection	[1] Human Body Model $\pm 19kV$ [air-gap discharge] & $\pm 12kV$ [contact charge] - [2] Core Chipset $\pm 8kV$	
PCB stack-up	4-layer board [impedance control - differential 100 Ω ; single 50 Ω]	
Input	4 x HDMI + 1 x RS-232	1 x RJ45 TMDS + 1 x RJ45 DDC + 1 x IR Socket for IR Receiver
Output	4 x RJ45 TMDS + 4 x RJ45 DDC + 5 x IR Socket for IR Blaster	1 x HDMI
HDMI Input Selection	[TX] Push Button / IR Remote Control / RS-232 Control	[RX] Push Button / IR Remote Control
HDMI Source Control	Controllable via IR pass-through from IR receiver at RX to IR sender at TX	
IR Remote Control	Electro-optical characteristics $\pi=25^\circ$ / Carrier frequency: 25-60kHz	
HDMI connector	Type A [19-pin female]	
RJ45 connector	[TX] WE/SS 8P8C with 2 LED indicators	[RX] WE/SS 8P8C
RS-232 Connector	DE-9 [19-pin-sub female]	
USB connector	None	
3.5mm connector	[TX] Earphone jack for IR blaster [IR Main] IR control on all sources [IR1-IR4] IR control on individual source device	[RX] Earphone jack for IR receiver [IR] Receives IR commands from remote control
DIP Switch	[SW1-SW4] 2-pin for EDID learning and audio setting modes [SW Main] 4-pin operation mode & firmware update	
MECHANICAL		
Housing	Metal Enclosure	
Dimensions [L x W x H]	[TX] 440 x 110 x 44mm [1'5" x 4.4" x 1.7"]	[RX] 84 x 61 x 24mm [3.3" x 2.4" x 1"]
Weight	[TX] 1357g	[RX] 185g
Fixedness	[TX] 1U rack-mounting with ears - Wall hanging holes	[RX] Wall mount with screws
Power Supply	[TX] 5V 4A DC	[RX] Not necessarily required
Power Consumption	20 Watts [max]	1 Watt [max] provided by BPHDMIMK4X4
Operation Temperature	0-40°C	
Storage Temperature	-20-60°C	
Relative Humidity	20-90% RH [no condensation]	

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