

Multi-Format to 4K UHD HDMI Conversion Box



(MRM-601P)

USER MANUAL MRM-601P

V1.0

Package Contents-

- 1 MRM-601P
- 1 user manual
- 1 power adapter DC 12V with lock
- 1 remote controller
- 1 RS232(DB-9 Female) to 3.5mm Serial cable
- 2 rack rails, 6 screws for MRM-601P only

Any thing missed, please contact with your vendor.

Introduction

The MRM-601P is a multi-format to UHD HDMI convertor for digital and analog video input. It combines four independent switchers in a single compact enclosure: 2x HDMI with embedded audio, 1x VGA, 1x DVI-D, 2x DP video and 2x analog stereo audio. The MRM-601P features three output selectable switching format, including the ability to route all and HDMI sources to the display using a single HDMI cable. Continuous EDID communications between the HDMI, VGA, DP and DVI sources and the display device ensures the reliable display of video. HDMI inputs and outputs are HDCP compliant, ensuring display of content protected media. The MRM-601P is ideal for use in single-display applications that require a hybrid switcher for integration of digital and analog video sources and associated audio signals.

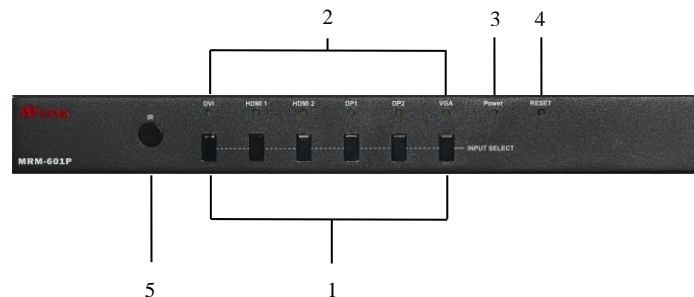
Features

- Deep Color video up to 8-bits, 4K@60Hz RGB
- Video input Compliant with HDMI 1.4, DP 1.2a and DVI 1.0.
- Compliant with 1.4 HDCP.
- Video Inputs: 1x DVI-D(Dual-link), 2 x HDMI, 2 x DP, 1 x VGA
- Audio Inputs: 2x3.5mm (work with VGA/DVI)
- Video Output: 1 x HDMI Compliant with HDMI 2.0
- IR Remote controller for operation.
- Computer can be used RS 232 to control the MRM-601P
- 1U rack design

Specifications

Function	MRM-601P
HDMI Input Connector	2
VGA Input Connector	1
DP Input Connector	2
DVI Input Connector	1
HDMI Output Connector	1
Max. Resolution	UHD, 4K@60, RGB
Remote control port	RS232, 9600, 8 data bit, no parity, 1 stop bit
Power Adapter (Min.)	DC 12V with lock
Housing	Metal
Weight	1860g
Dimensions (LxWxH)	384x173x45mm

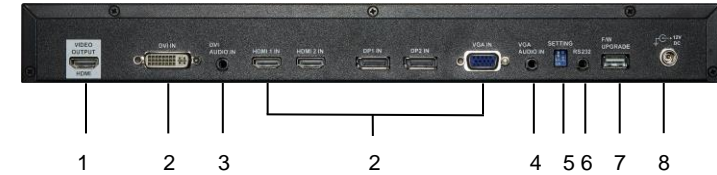
FRONT VIEW



- Input port selection switch
Press the switch to access the selected video source

- Port LEDs
LED lights up when the input port has been successfully selected.
- Power LED
When the LED lit to indicate a power start.
- RESET
System reset.
- IR receiver
Take aim at IR receiver with remote controller

REAR VIEW



- HDMI output port
- Video input port
1x DVI-D (Dual-link), 2x HDMI, 2x DP, 1xVGA
- Audio input port
1x3.5mm work with DVI
- Audio input port
1x3.5mm work with VGA
- 2 Pin DIP Switch
Select HDMI Output Format
- 3.5mm RS-232 port
- USB 2.0 OTG for F/W UPGRADE
- Power supply
Plug the power adapter

Installation

Before the installation, making sure the MRM-601P and monitor are turning off.

- Making sure all equipments are turned off.
- Plug the monitor cable into the HDMI OUT port connector.
- Plug the extension cables from video source device (DVD player, PC, Digital camera) into the Video IN port connectors.
- Plug the power adapter into the wall socket.
- Connect the power adapter with the HDMI selector.
- Turn on the monitor first.
- Turn on the DVD player/TV receiver.

Operation

1. Port selection

- Press the button of “port selection switch” for accessing the wanted DVD player/TV receiver.
- The selected corresponding port will light on for the LEDs which indicating the port is activated.

2. IR remote control

- Use “1” ~”6” key to select video input port.
- Use “◀”, “▶” key to select another video input port.
- Use “⏻” key to power on/off MRM-601P.



DIP Switch Setting

1	2	Mode
ON	ON	1080P
OFF	ON	4K/30
ON	OFF	4K/60
OFF	OFF	Reserved

※Factory Defaults to 4K/60.

Support HDMI mode

Max resolution: UHD(3840x2160@30)

Support DP mode

Max resolution: UHD(3840x2160@60)

Support DVI mode

Max resolution: QHD(2560x1440@60)

Support VGA mode

Analog	Resolution	Frequency(Hz)
VGA	640x480	60 / 72 / 75 / 85
VGA	720x400	70 / 85
SVGA	800x600	56 / 60 / 72 / 75 / 85
WVGA	848x480	60
XGA	1024x768	60 / 70 / 75 / 85
SXGA	1152x864	75
SXGA	1280x768	60RB/ 60 / 75 / 85
WXGA	1280x800	60
SXGA	1280x960	60 / 85
SXGA	1280x1024	60 / 75 / 85
WXGA	1360x768	60
SXGA+	1400x1050	60RB / 75
WXGA+	1440x900	60
SXGA+	1440x1050	60
UXGA	1600x1200	60
WSXGA+	1680x1050	60
1080p	1920x1080	60
WUXGA	1920x1200	60RB
720p	1280x720	60

RS-232 Control Command Code List

Command	Hexadecimal
Switch DVI	0x00 0x30 0x00 0x01 0x01 0x01 0xD1 0x8F
Switch HDMI1	0x00 0x30 0x00 0x01 0x01 0x02 0x91 0x8E
Switch HDMI2	0x00 0x30 0x00 0x01 0x01 0x03 0x50 0x4E
Switch DP1	0x00 0x30 0x00 0x01 0x01 0x04 0x11 0x8C
Switch DP2	0x00 0x30 0x00 0x01 0x01 0x05 0xD0 0x4C
Switch VGA	0x00 0x30 0x00 0x01 0x01 0x06 0x90 0x4D
Power On	0x00 0x30 0x09 0x06 0x00 0xF8 0xA2
Power Off	0x00 0x30 0x09 0x05 0x00 0xF8 0x52

Communication Protocol: Baud rate 9600bps,no odd or even calibration bit address,8bit transmission address,1bit stop address.

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