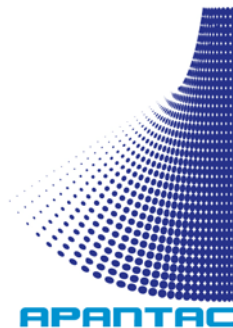

HDMI 8x8 User Manual



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1.0 WHAT'S IN THE BOX?

	HDMI Matrix Host
	RS-232 Communication Connecting Cable
	Power Cord
	IR Blaster
	Ethernet Cable
	Remote Control
	2 AAA batteries
	HDMI Matrix Software CD
	User Manual
	2 Rack-Mount Bracket

2.0 Features

- HDMI 1.3a Compatible
- HDCP Compliant
- Can be used as a DVI switch with optional HDMI to DVI cables
- Supports RS-232 / Ethernet control
- Supports IR control
- Internal universal power supply
- Rack mountable
- Supports computer video up to 1920*1200
- Supports up to 1080p
- EDID management (Learn from Output port 1)

3.0 Specifications

Function	HDMI-8x8
Input Connector	8 x HDMI Type A
Output Connector	8 x HDMI Type A
RS-232 Connector	DB9 Female
LAN Connector	RJ-45
Max. Resolution	1920x1200/1080P
Highest TMDS Frequency	225 MHz
Cable Distance	10 meter (Max.)
Power	100~240VAC, 50~60Hz, internal
Weight	2350 g
Dimensions (LxWxH)	440x336x43mm

4.0 Front/Rear Panels

4.0.1 Front Panel



Figure 4-1 HDMI-8x8 Front Panel

4.0.2 Button Descriptions

- Out 1 ~ 8: Destination
- In 1 ~ 8: Source
- IR1: Infrared Receiver
- ALL: This button allows you to set a single source to all destinations
 - o Press <ALL>
 - o Select one of the sources (In 1 ~ 8).
 - o The selected source will go to all the destinations.
 - o To disable the <ALL> selection press <OFF>
- OFF: Pressing <OFF> will turn off all destinations
 - o Select one of the destinations, then press <OFF>, will turn off that particular destination
 - o Press <ALL> and follow by <OFF> to disable all switch settings
- STO: The “Store Key” saves all current source/destination status
 - o Press <STO>, then you can store the presets 1 to 8 by pressing the OUT 1 ~ 8 buttons.
- RCL: The “Recall Key” recalls the saved input/output status
 - o Press <RCL>, then press out keys 1 ~ 8 to select the presets
- EDID: FIX and TV1
 - o FIX: The HDMI-8x8 will supply a set of stored EDID values
 - o TV1: The HDMI-8x8 will access the EDID value of the monitor that is connected to the first output channel and copy the EDID value to all the input channels.

4.0.3 Rear Panel



Figure 4-2 HDMI-8x8 Rear Panel

1. Power: Universal Power Supply 100 ~ 240 50/60Hz
2. Power Switch: ON/OFF
3. RS232
4. IR: Connection to the IR Blaster
5. DIP Switch:
 - Pin1: Switch between RS-232 port and LAN port connection.
 - Pin2: This Pin allows you to reset the IP value to **192.168.0.3**. The steps are below:
 - a. Adjust the Pin2 down and re-start HX-2388.
 - b. After the HX-2388 re-starts (about 10 seconds), shut down your equipment.
 - c. Adjust the Pin2 up, then power on HX-2388 again.
 - d. The IP address will be restored to the default value: **192.168.0.3**
 - Pin3: No definition.

Pin #	UP	DOWN
1	LAN	RS-232
2	NORMAL	IP DEFAULT
3	Reserved	Reserved

6. LAN: Remote access via Ethernet
7. In 1 ~ 8: HDMI/DVI sources
8. Out 1 ~ 8: HDMI/DVI monitors or projectors

HDMI Type A Connector Pin Definition:

Pin #	Signal	Pin #	Signal
1	TMDS Data2+	11	TMDS Clock Shield
2	TMDS Data2 Shield	12	TMDS Clock-
3	TMDS Data2-	13	NC
4	TMDS Data1+	14	NC

5	TMDS Data1 Shield	15	DDC-SCL
6	TMDS Data1-	16	DDC-SDA
7	TMDS Data0+	17	DDC-Ground
8	TMDS Data0 Shield	18	+5V Power
9	TMDS Data0-	19	Hot Plug Detect
10	TMDS Clock+		

5.0 Remote Communications

5.0.1 HDMI Matrix / Control Connection

Use the supplied RS-232 cable to connect the computer's serial port (COM1 or COM2) to the RS-232 port of the HDMI-8x8 to enable remote control via serial interface.

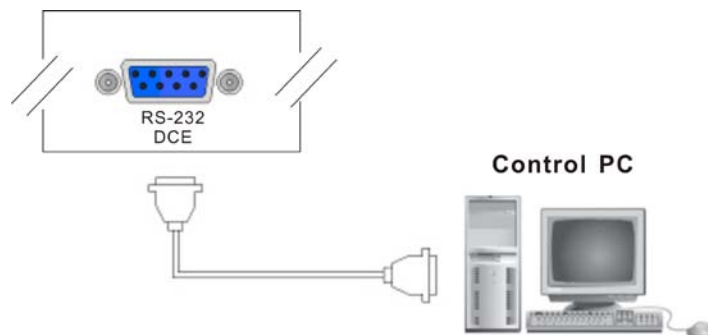
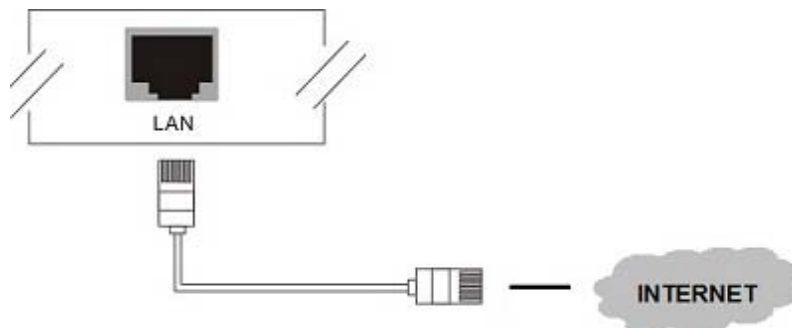


Figure 5-1 (a) RS-232 and Control PC connection

HDMI-8x8 also supports a LAN port that allows you to control the switch through browser.



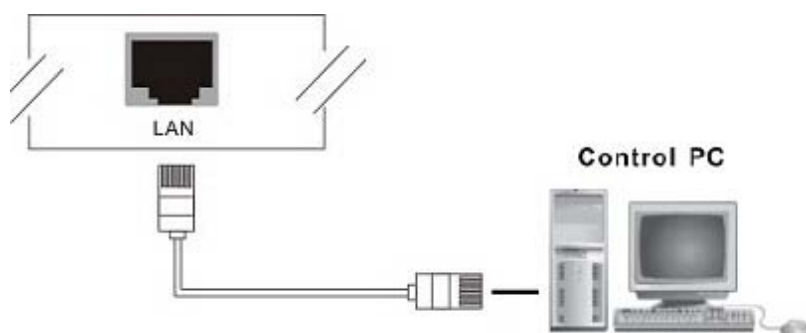


Figure 5-2 (b) LAN port and Control PC Connection

The RS-232 Pin out

Pin No.	Leg	Description
1	N/u	Null
2	Tx	Send
3	Rx	Receive
4	N/u	Null
5	Gnd	Ground
6	N/u	Null
7	N/u	Null
8	N/u	Null
9	N/u	Null

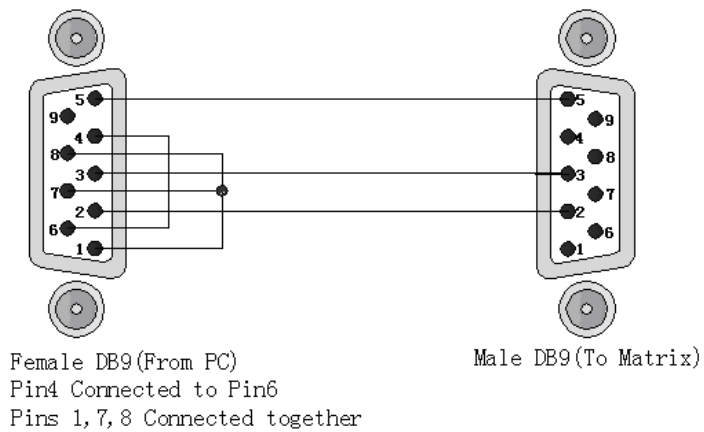


Figure 5-3

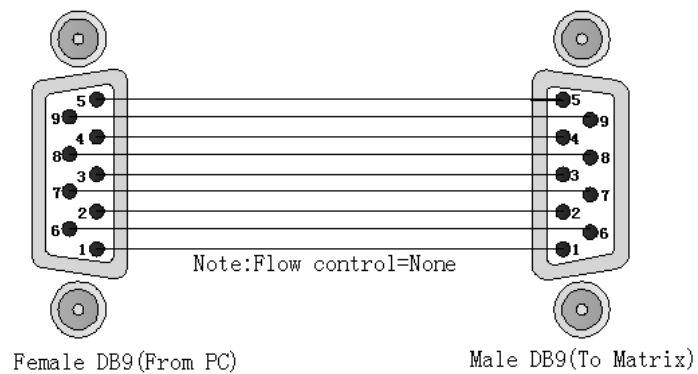


Figure 5-3 (a)

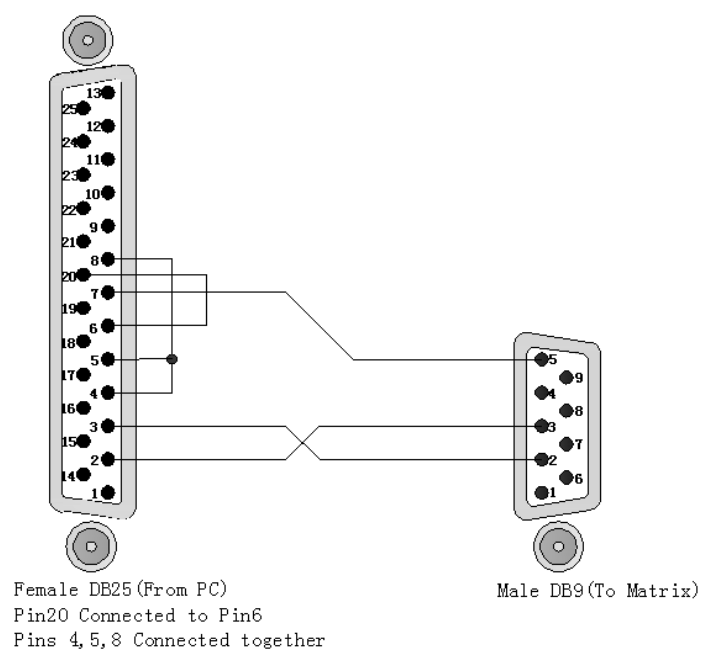


Figure 5-3 (b)

5.0.2 IR2 Connection

The HDMI-8x8 can also be controlled via an IR remote control simply by connecting the IR Blaster IR2 port on the rear panel.

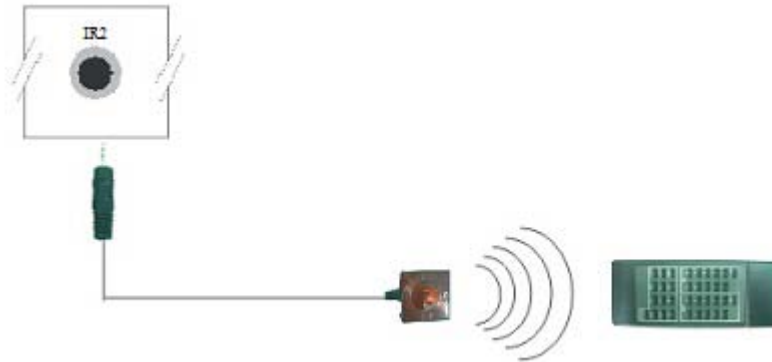


Figure 6-6 IR Connection