4x8 HDMI Matrix w/Cat 5e Extender
User Manual

Packing List :

1 * 4X8 HDMI Matrix w/Cat 5 Extender
1 * IR Remote Control (For Matrix use)
5 * IR Receiver Cable
4 * IR Transmitter Cable
1 * DC 12V Power Adapter (For Matrix use)
2 * Rack-ears
4 * Extender
4 * IR Remote Control (For Extender use)
4 * DC 5V Power Adapter (For Extender use)
1 * User Manual

- With 4 HDMI inputs and 4 HDMI outputs and 4 mirrored extended outputs
- Each output group includes 1 HDMI and 1 RJ45 port
- All output groups can share same input or select standalone input
- Support extending digital video, audio and IR through a single Cat5e/6 cable up to 50 meters (need to be used with the Extender)
- Support resolution up to 1920x1080@60Hz
- Compliant HDCP 1.3
- Each output supports Quad View mode
- Support audio switching in Quad View mode
- Support PCM, Dolby®_AC3, DTS®5.1 and other audio format transmission
- Support IR pass through
- Support 4 configurable user preset connections
- Matrix status could be memorized after power down, automatically restore previous matrix status after next power on
- Easy to control matrix via IR receiver, front panel key, LAN port and RS232 port
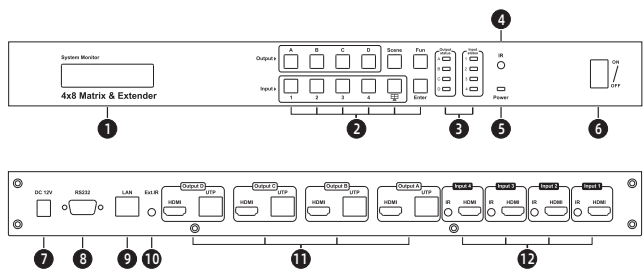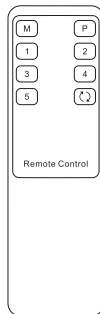
Panel Description

ID	Name	Description
1	LCD display	Display current status and function settings. 0 indicates entering Quad View mode.
2	Keypad	Press to control the Matrix.
3	Input and output connection status	The LEDs are on to indicate that the corresponding devices have been connected to the each HDMI port and have been recognized.
4	IR receiver	Receive IR remote signal.
5	Power status indicator	The LED will be lit (red) if power is on.
6	Power switch	Turn on or turn off power supply.
7	DC 12V	DC 12V power supply.
8	RS232 port	Connect this port to control termination. Use RS232 commands to control the Matrix.
9	LAN port	Connect this port to control termination. Use TCP/IP commands to control the Matrix.
10	IR extension in	Connect IR extension cable to this port to receive IR signal even the Matrix is installed in a rack.
11	Output ports group	Each group contains a remote end(RJ45) output and a local end(HDMI) output.
12	Input ports group	Each group contains an IR transmitter port and a HDMI input port.

Press the button [M] to switch the corresponding remote display to Quad View mode at the remote end.

Continuously press the button [P] to switch the audio source in Quad View mode. Audio switches synchronously when multiple output ports are in Quad View mode.

Press the button [1]~[4] to switch the corresponding input source to display on the corresponding remote end.

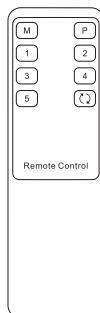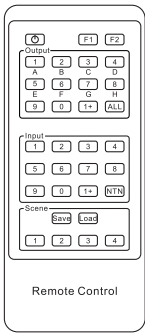Continuously press the button [↻] to cyclically switch through all inputs and Quad View mode.

Press the button [5] to show the OSD.

Remote Control

Switch to mirrored connection:

Press the key [NTN] , then the routing status will be changed to Input 1-Output A, Input 2-Output B, Input 3-Output C, Input 4-Output D.

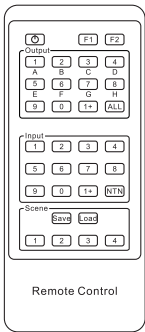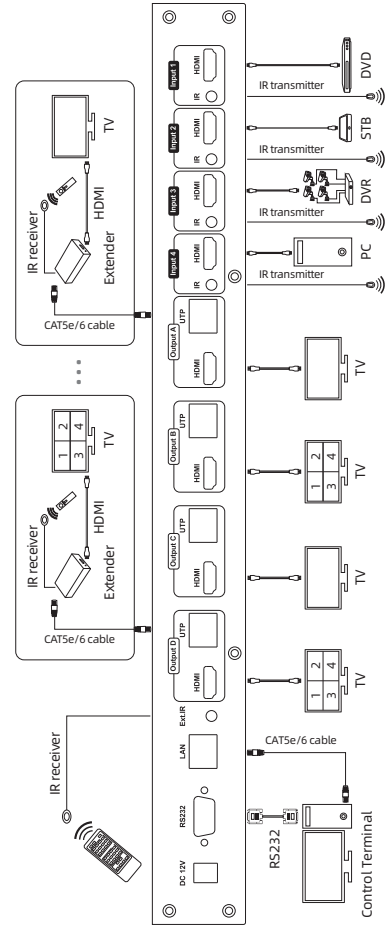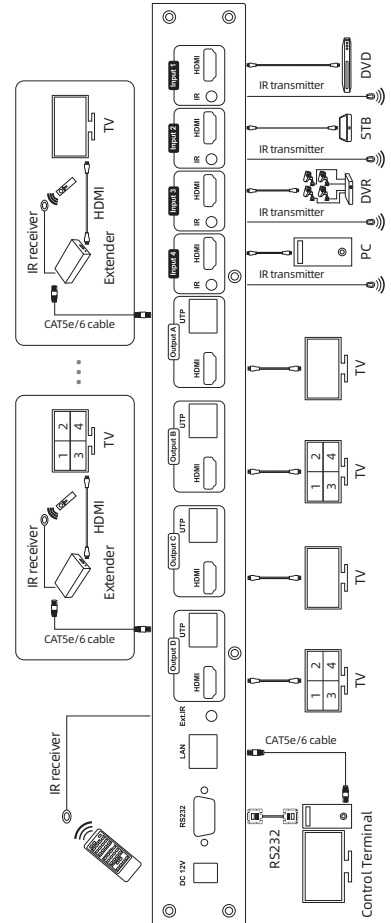**Preset routing for scenes:**

Save preset:

Step 1: Press the key [Save] .

Step 2: Press [1] / [2] / [3] / [4] in 'Scene' to save current routing status to user preset memory 1/2/3/4.

Load preset:

Step 1: Press the key [Load] .

Step 2: Press [1] / [2] / [3] / [4] in 'Scene' to load routing status from user preset memory 1/2/3/4 and apply to current routing.

Connection Diagram

Function Description

1. Quad View Mode Description

Each group of output port on our Matrix supports Quad View mode. You can set the Quad View mode or full screen display for each group of output port. You can switch input ports with front panel buttons, IR signals, RS232 commands and TCP/IP commands.

Audio switching is supported under the Quad View mode. You can choose the audio source by pressing the front panel **[田]** button in Quad View mode and other methods. Audio switches synchronously when multiple output ports are in Quad View mode.

1	2
3	4
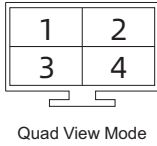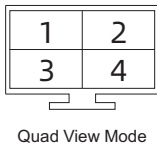
Quad View Mode

2. OSD Description

There are blue characters (OSD information) on the screen on Quad View mode to indicate the input source port numbers and whether it is the current selected audio source. It will appear on the top left corner when each time you switch audio. The OSD will disappear automatically after about 5 seconds of display.

CH 1 Audio

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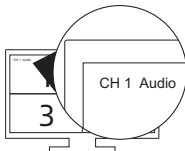
IR Remote Control

Matrix Remote control:

Remote Control
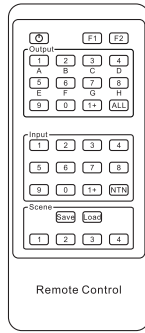
Lock the keypad:

Press the key ⊙ to lock or unlock the keypad. If the keypad was locked, all the operation would not take effect. Press it again to unlock the keypad when it is locked.

1 to 1 switch :

Step 1: Press the key [1/A] ~ [4/D] to select the output port.

Step 2: Press the key [1] ~ [4] to select the source which you want to be displayed on selected output.

1 to all switch:

Step 1: Press the key [ALL] to select all the output port.
Step 2: Press the key [1] ~ [4] to select the source which you want to be displayed on all the outputs.

Quad View mode switch:

1. Single display enter Quad View mode:
Step 1: Press the key [1/A] ~ [4/D] to select the output port.
Step 2: Press the key [0] to enter Quad View mode on the selected output.

2. All displays enter Quad View mode:
Step 1: Press the key [ALL] to select all the output ports.
Step 2: Press the key [0] to make all displays enter the Quad View mode.

3. Switch audio on Quad View mode:
Continuously press the key [F2] to switch the audio in the four segmented pictures. Audio switches synchronously when multiple output ports are in Quad View mode.
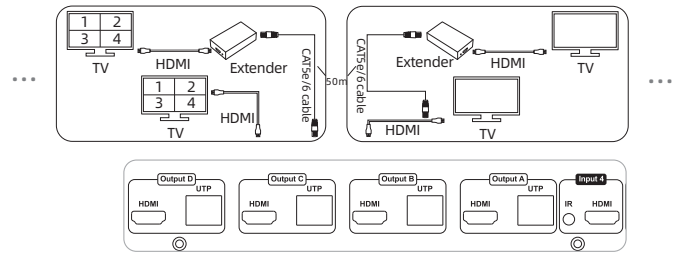
Function settings button:

1. 1 to all switch: Press [Fun] button once to select desired input to be displayed on all outputs or let all output enter Quad View mode. Press any one of **[1~4]** button or the **[田]** button to confirm according to LCD prompt.

2. Mirror connection: After pressing **[Fun]** button twice, the routing status will be changed to Input 1-Output A, Input 2-Output B, Input 3-Output C, Input 4-Output D. Press **[Enter]** button to confirm.

3. LCD display timeout setting: Press **[Fun]** button three times to set the LCD display time out. Press any one of **[1~3]** button to confirm according to LCD prompt.

4. Beep state setting: Press **[Fun]** button four times to turn off/on the buzzer. Press any one of **[1~2]** button to confirm according to LCD prompt.

5. IP address query: Press **[Fun]** button five times to query current IP address.
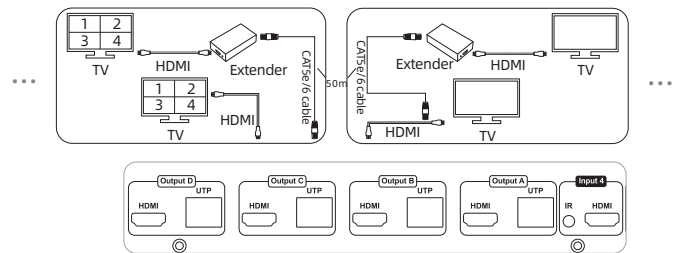
Enter button:

1. Press **[Enter]** button to lock or unlock the keypad. If the keypad was locked, all the operation would not take effect. Press it again to unlock the keypad when it is locked.

2. Press **[Enter]** button on any LCD display interface will return to the connection status menu.
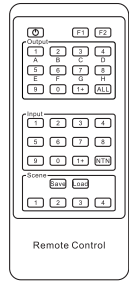
3. Mirrored Extended Outputs

The 4X8 HDMI Matrix w/Cat 5 Extender has a built-in distribution chip in each output port. you will get not only 4 HDMI outputs at the local end but also 4 mirrored extended outputs through Cat 5e/6 network cables. The extension distance is up to 50m. Each group of remote end (RJ45) output is synchronized with the local end (HDMI) output. If the HDMI port of any group of output is full screen display, the RJ45 port of this output group will be a full screen display; if the HDMI port of any group of output is Quad View display, the RJ45 port of this output group will be a Quad View display.
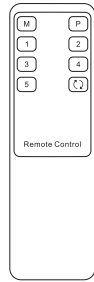
When you use the front panel button or IR remote control to Matrix, the LCD display will inquiry your target action, then execute the command according to your operation.

A~D buttons:
Press to choose the corresponding output port to switch to the desired input or enter Quad View mode.

1-4 buttons:
1. After pressing the **[A-D]** button, press **[1~4]** button to choose the desired input port.
2. If you press the other settings button, press **[1~4]** button to choose the desired option.

Preset scene button:
1. Press **[Scene]** button once then press any one of **[1~4]** button to save current routing status to user preset memory 1/2/3/4.
2. Press **[Scene]** button twice then press any one of **[1~4]** button to load routing status from user preset memory 1/2/3/4 and apply to current routing.
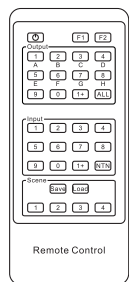
Quad View button:
1. After pressing the **[A ~ D]** button, press **[⊞]** button to let the corresponding output enter Quad View mode.
2. After pressing the [Fun] button selecting all output to switch, press [⊞] button to let all the outputs enter Quad View mode.
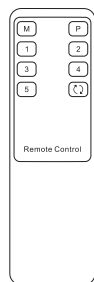3. Press [⊞] button then **[1 ~ 4]** button to select the audio source in Quad View mode according to LCD prompt.