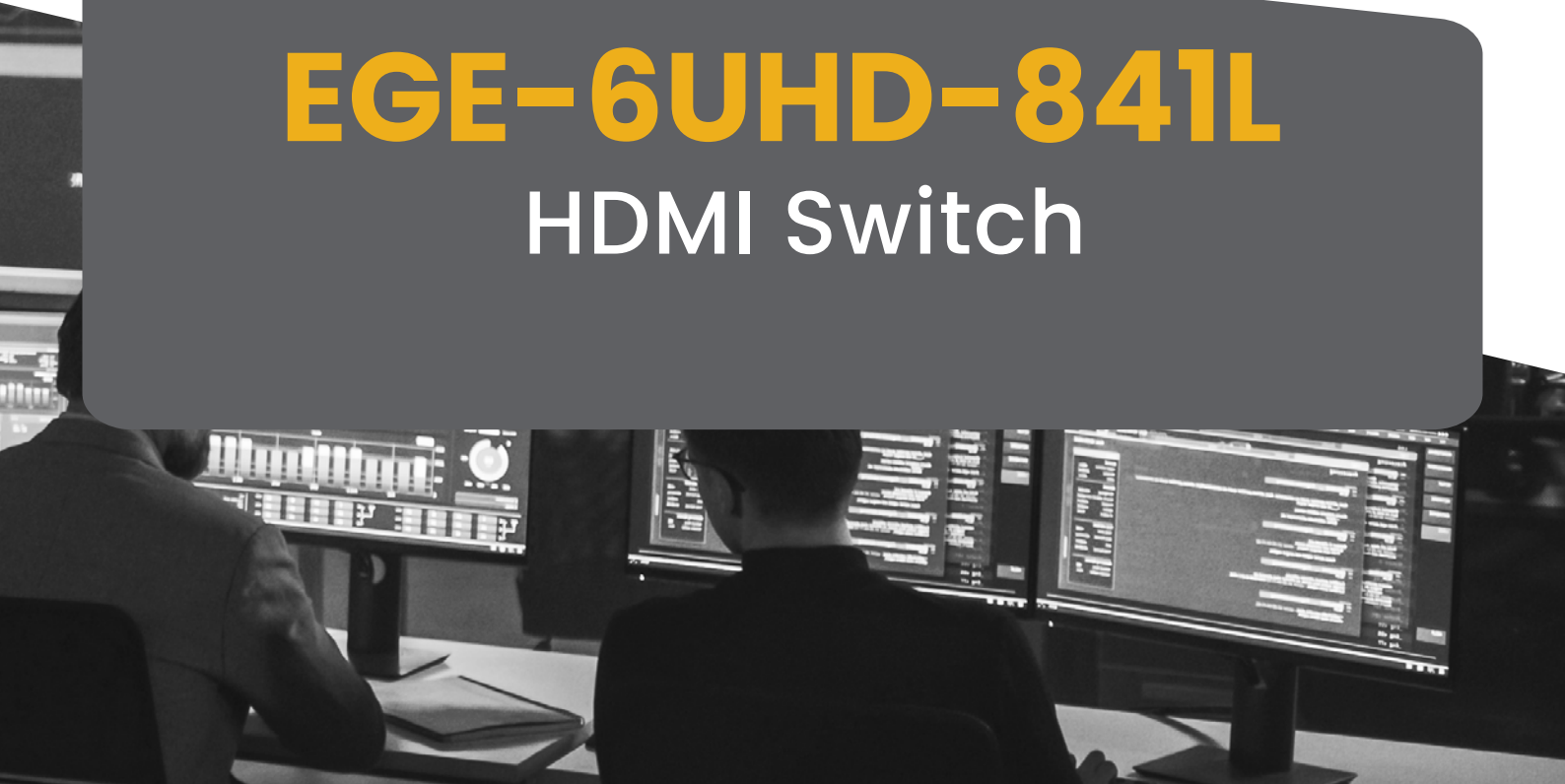


geratech®



EGE-6UHD-841L

HDMI Switch





Product manual

This 4K HDMI Audio Video switch can connect 8 roads HDMI signal sources to an HDMI display. It supports the resolution up to 4K (4096*2160@60Hz 4:4:4), data rate 18Gbps, 3D, color depth up to 12 bits, and distortion-free audio format. The 8 port HDMI auto switch is equipped with an automatic switching mode, which can provide the convenience of automatic switching of signals and an instant switching function, allowing users to easily switch between HDMI signal sources. In addition, users can quickly and easily operate the 8x1 HDMI switch in many ways. For example: through front-panel buttons, two-way RS-232 serial port, IR, and automatic switching functions. This model is suitable for multi-clock application environment, such as: home theater, conference room, trade exhibition hall, shopping mall.

Features

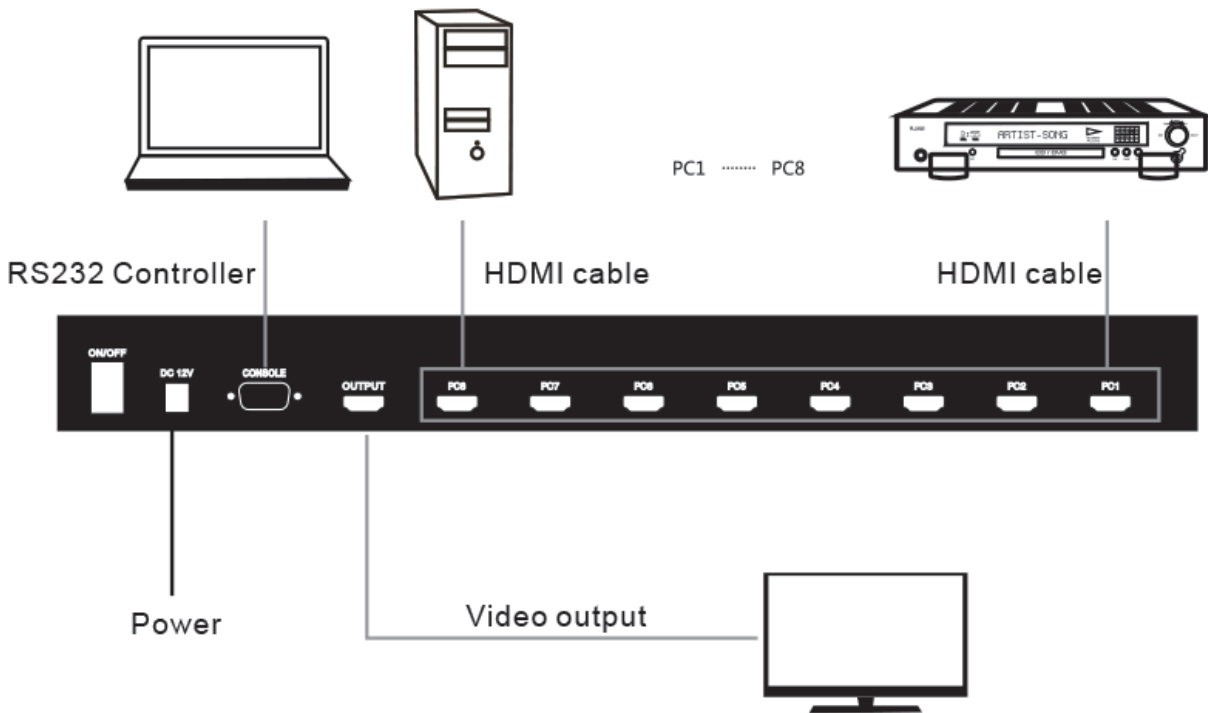
- Connect up to 8 HDMI signal source to an HDMI display
- Support HDCP2.2 standard
- High resolution: true 4K resolution (4Kx 2K@60Hz 4: 4: 4) and 1080P(1920 *1080 @60Hz)
- Support automatic scanning(Interval time can be arbitrarily set in units: minutes / second)
- Support RS-232 serial port for high-level system control
- Automatic switching mode supports automatic selection of the connection port
- Support IR switching function
- LED indicator show signal status
- Plug and play
- Rack-mount design

SPECIFICATION

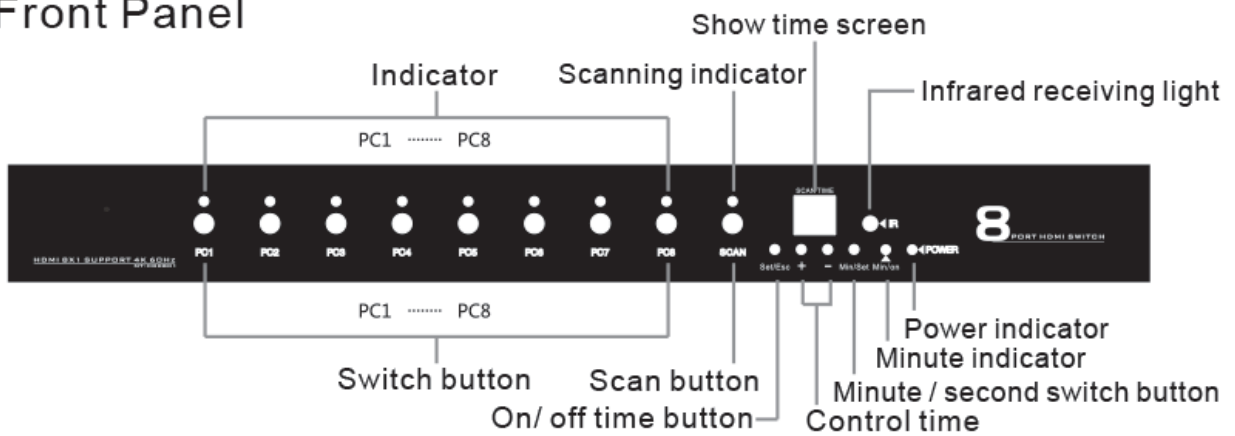
Function	8 port auto HDMI switch
Video Input	
Interface	8x HDMI Type A Female
Resistance	100Ω
Max. distance	3m(4K 60Hz signal)
Video Output	
Interface	1x HDMI Type A
Resistance	100Ω
Max. distance	3m(4K 60Hz signal)
Video	
Max. data transfer rate	18Gbps (6 Gbps each channel)
Max. pixel clock frequency	600MHz
HDCP	HDCP 2.2
Resolution	Up to 4096*2160/ 3840*2160 @ 60Hz(4:4:4)
Max. distance	3m(4K 60Hz signal)
Console	
RS-232	Interface: 1x DB-9 female
IR	IR head
Power Interface	
Power	1 DC port
Power supply	DC 12V
Environment	
Operation Temperature	0 to 40
Storage Temperature	20 to 60
Humidity	0 to 80% RH, Non-condensing
Physical	
Housing	Metal
Dimension	440* 150* 42mm

DIAGRAM

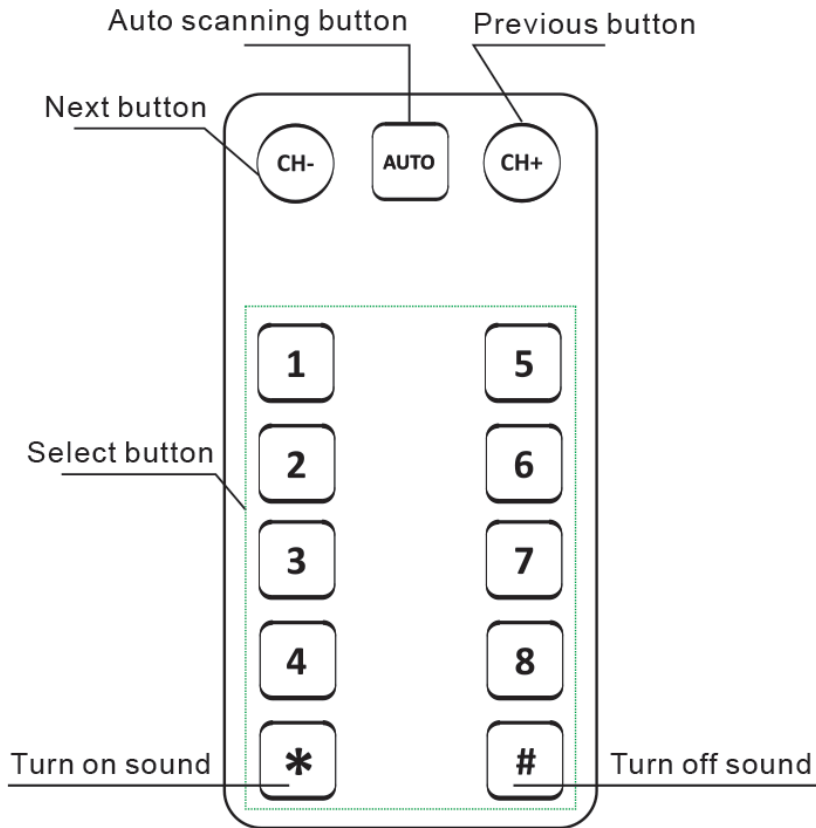
Back Panel



Front Panel



REMOTE CONTROL



CONTROLLER TYPE

Controller Method	Panel, IR remote, RS232
Panel button	Button
Controller port	RS-232(DB9)
Baud rate and protocol baud rate	9600
Data bit	8 bits
Stop bit	1bit, No parity
Serial port controller structure	2=TX, 3=RX, 5=GND

SWITCH METHOD

1. Press switching button
2. IR remote controller: the distance should $\leq 10\text{m}$
3. Serial port control switching (hexadecimal)

CONTROLLER CODE

Serial Configuration

Baud rate:9600

Data bit:8

Stop bit:1

Other bit:None

Serial code

Output Select in 1: 0xa5a 0x00 0xcc

Output Select in 2: 0xa5a 0x01 0xcc

Output Select in 3: 0xa5a 0x02 0xcc

Output Select in 4: 0xa5a 0x03 0xcc

Output Select in 5: 0xa5a 0x04 0xcc

Output Select in 6: 0xa5a 0x05 0xcc

Output Select in 7: 0xa5a 0x06 0xcc

Output Select in 8: 0xa5a 0x07 0xcc

Automatic scanning

- **Serial turn on code:0xa5 0x5a 0x41 0xcc**
- **Viewer scanning time**

After powering on, the LED display defaults to the autoscanning seconds. The Min / on LED indicator is not lit. Press the Min / button to display the auto-scanning minutes, at this time, the Min / on light is lit.

SCAN TIME SETTING

1. Set/Esc: Set the entry / exit scan time
2. “+”“-” Set scan time plus / minus
3. Min/Set: Set the scan time between minutes and seconds
(when the green LED is always on, it means that the current status is minutes)
4. Min/On: Green LED Minutes indicator

Example: if the user wants to set 18 seconds automatic scanning time, first press Set / ESC. At this time, the LED light flashes, then press “+” until the LED displays 18, and then press the Set / ESC button. When the LED lights does not flash, the setting is successful. If the set time is minutes, press Set / ESC first and then Min / Set. At this time, the green LED lights is always on. Then the user can set the automatic scanning time, press Set / ESC, the LED lights does not flash and the green LED is always on. At this time, the scan time is set to minutes.

Signal tracking status description

A: No matter the user first plugs in any input port, it will automatically track and identify any port. When the input port reaches more than 2 hosts, it does not track

B: When the user input port reaches more than 2, the user unplugs the port that displays the working picture, it will jump to the next online port in order



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