

USER MANUAL

HDMI 16X1 Seamless Multi-viewer

Always Enjoy Super Quality

Dear Customer:

Thank you for purchasing this product.For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Product Description:

This HDMI 16X1 Multi-viewer is a high-performance switch with 16-channel HD screen segmentation and seamless switching output. It can display 16 HD digital video signal on the same screen and has a variety of video segmentation, seamless switching 16HD input signal synchronously. The control methods of the switch is flexible, it can be switched via button and IR control. It is a very practical and stable switch that easy to install. It can be used in the major projects, meeting halls and other places.

HDMI output resolution up to 1080P/60Hz and 4K/30Hz, and there are 16 average screens in multi-viewer mode when you first use the product. The screen shows color bar in case of no signal input.

Product Appearance:



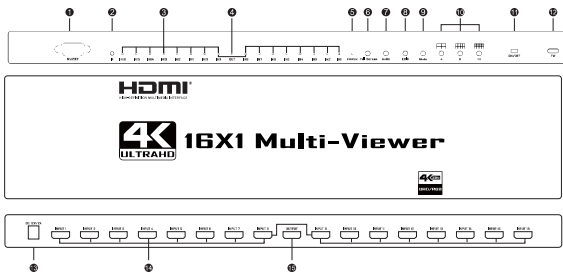
Product Features:

- *Support 16 HDMI input 1 HDMI output
- *Support 16 HDMI signal screen segmentation
- *Support 16 HDMI signal seamless switching
- *Switch between 1080P/60Hz and 4K30Hz (RGB) and backward compatible.
- *Support HDMI1.4, HDCP1.4 and backward compatible.
- *Support RS232
- *Support picture-in-picture
- *HDMI input and output transmission distance:high speed HDMI cable can reach up to 15M.(HDMI cable 19+1,28AW)
- *Support IR control
- *Power Supply: DC12V2A

Specifications:

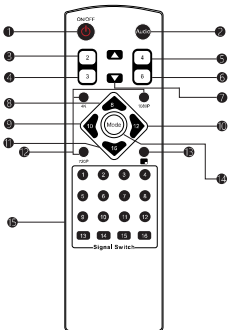
Support HDMI resolution:
24/50/60fs/4K30HZ/1080P/720p/576p/576i/480p/480i
Support video color format:24bit/30bit/36bit.
Support audio input format:
DTS-HD/Dolby-real-ID/Dolby-AC3/DSD
Support audio output format: LPCM,PCM2
Max bandwidth: 330V/hz
Max bandrate: 10.2Gbps
Input/Output TMDs signal:0.5~1.5V p-p(TTL)
Input/Output DDC signal: 5Vdts p-p(TTL)
Input cable distance: ≤15mAWG24 HDMI standard cable
Output cable distance: ≤24mAWG24 HDMI standard cable
Max working current:12V/0.6A
Operating Temperature range: (-15~+55°C)
Operating Humidity range: 5~90%RH(No Condensation))
Dimension (L x W x H): 480x106x28 mm
Weight: 1640g

Interface Diagram:



1. RS232 Port	2. IR Receiver
3. HDMI Signal Input Light 1-16	4. HDMI Output Light
5. Power LED indicator	
6. Fullscreen mode, cycle switching signal 1/2/3/4/5/6/7/8/9/10/11/12/13/14/15/16	
7. Audio Switch of 16 HDMI Input	
8. EDID switch 720P/1080P/4K	9. Switch segmentation mode
10. 4/8/16 Average Image Display Mode	11. Power On/Off
12.Firmware Update	13.Power Input DC 12V/2A
14.HDMI Signal Input 1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16	
15.HDMI Signal Output	

IR Remote Operating Instruction:



1. Power On/Off
2. Audio Switch of 16 HDMI Input
3. Switch to Dual Average horizontal/vertical
4. Switch to 3 Average horizontal/vertical
5. Switch to 4 Average/1 big(left) 3 small(right) /1 big(top) 3small(bottom)/1 big(bottom) 3 small(top)
6. Switch to 6 Average/1 big 5 small/2 big 4 small
7. 16HDMI input signalswitch counterclockwise and clockwise in 1 segmentation display
8. Switch to 8 Average/1 big 7 small
9. Switch to 10 Average
10.Switch to 12 Average
11.Switch to 16 Average
12.720P/1080P/4K resolution
13.Picture-in-picture Function
14.Segmentation Mode Switch
15.Fullscreen switch of 16 HDMI input

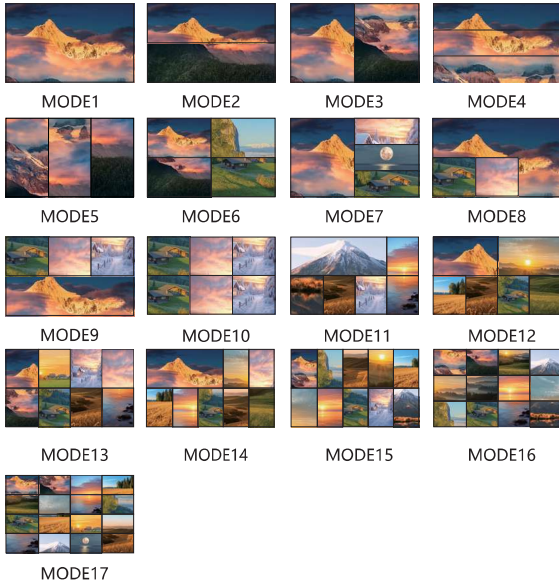
Package List:

1. HDMI 16X1 Multi-viewer x1
2. DC 12V/2A Power Adapter(DC port) x1
3. User Manual x1
4. Remote controller x1

Notes:

Please use the product according to the following instructions to ensure a long service life.
1. The product should be placed at the spot far from the damp, high-temperature, dusty, erosive and oxidative environment.
2. All parts must not be subject to strong shake, hit or fall.
3. Please do not open the cover or touch the inside parts.

17 modes for switching:



MODE1: Single image display mode (Channel 1-9 seamless switch)

MODE2: Dual Average Image Display Mode (horizontal)

MODE3: Dual Average Image Display Mode (vertical)

MODE4: 3 Average Image Display Mode (horizontal)

MODE5: 3 Average Image Display Mode (vertical)

MODE6: 4 Average Image Display Mode

MODE7: 1 big(left) 3 small(right) Display Mode

MODE8: 1 big(top) 3 small(bottom) Display Mode

MODE9: 1 big(bottom) 3 small(top) Display Mode

MODE10: 6 Average Image Display Mode

MODE11: 1 big 5 small Display Mode

MODE12: 2 big 4 small Display Mode

MODE13: 8 Average Image Display Mode

MODE14: 1 big 7 small Display Mode

MODE15: 10 Average Image Display Mode

MODE16: 12 Average Image Display Mode

MODE17: 16 Average Image Display Mode

RS232 Serial Port Instructions

Please use one RS232 serial port cable to connect the RS232 serial port, and set the serial port baud rate to 115200. The serial port tool should be XCOM. The command needs to be sent through the serial port. If the command is executed, the LOG printed by the serial port tool will print the sent command. The serial port has 8 data bits, 1 stop bit and no checksum.

10 06 is the first bit, 55 is the end bit, the center 2 bit is command code. Please check the brightness and contrast adjustment demand as below:

//10 06 B0 XX 55

//10 06 B1 XX 55

1. Brightness adjustment range is -127--128, B0 means negative, B1 means positive adjustment. Need change to Hexadecimal system, if you need adjust the brightness to 32, then need send 10 06 B1 10 55 , XX is for the changed data

2. Contrast adjustment, C0 is command code for contrast adjustment, XX is the real target data, the range is 0—127

//10 06 C0 XX 55

Sending Demand	Return Demand	Function
10 06 00 01 55	10 06 00 01 55	Switch to input1 Fullscreen
10 06 00 02 55	10 06 00 02 55	Switch to input2 Fullscreen
10 06 00 03 55	10 06 00 03 55	Switch to input3 Fullscreen
10 06 00 04 55	10 06 00 04 55	Switch to input4 Fullscreen
10 06 00 05 55	10 06 00 05 55	Switch to input5 Fullscreen
10 06 00 06 55	10 06 00 06 55	Switch to input6 Fullscreen
10 06 00 07 55	10 06 00 07 55	Switch to input7 Fullscreen
10 06 00 08 55	10 06 00 08 55	Switch to input8 Fullscreen
10 06 00 09 55	10 06 00 09 55	Switch to input9 Fullscreen

10 06 00 10 55	10 06 00 10 55	Switch to input10 Fullscreen
10 06 00 11 55	10 06 00 11 55	Switch to input11 Fullscreen
10 06 00 12 55	10 06 00 12 55	Switch to input12 Fullscreen
10 06 00 13 55	10 06 00 13 55	Switch to input13 Fullscreen
10 06 00 14 55	10 06 00 14 55	Switch to input14 Fullscreen
10 06 00 15 55	10 06 00 15 55	Switch to input15 Fullscreen
10 06 00 16 55	10 06 00 16 55	Switch to input16 Fullscreen
10 06 01 00 55	10 06 01 00 55	Switch to Dual Average Image Mode (horizontal)
10 06 01 01 55	10 06 01 01 55	Switch to Dual Average Image Mode (vertical)
10 06 01 02 55	10 06 01 02 55	Switch to 3 Average Image Mode (horizontal)
10 06 01 03 55	10 06 01 03 55	Switch to 3 Average Image Mode (vertical)
10 06 01 04 55	10 06 01 04 55	Switch to 4 Average Image Mode
10 06 01 05 55	10 06 01 05 55	Switch to 1 big(left) 3 small(right) Display Mode
10 06 01 06 55	10 06 01 06 55	Switch to 1 big(top) 3 small(bottom) Display Mode
10 06 01 07 55	10 06 01 07 55	Switch to 1 big(bottom) 3 small(top) Display Mode
10 06 01 08 55	10 06 01 08 55	Switch to 6 Average Image Mode
10 06 01 09 55	10 06 01 09 55	Switch to 1 big 5 small Display Mode
10 06 01 10 55	10 06 01 10 55	Switch to 2 big 4 small Display Mode
10 06 01 11 55	10 06 01 11 55	Switch to 8 Average Image Mode
10 06 01 12 55	10 06 01 12 55	Switch to 1 big 7 small Display Mode
10 06 01 13 55	10 06 01 13 55	Switch to 10 Average Image Mode
10 06 01 14 55	10 06 01 14 55	Switch to 12 Average Image Mode
10 06 01 15 55	10 06 01 15 55	Switch to 16 Average Image Mode
10 06 A0 00 55	10 06 A0 00 55	Switch audio of 16 HDMI Input separately

10 06 B0 XX 55	10 06 B0 XX 55	Adjust the brightness of output video (XX means the input data is between 0-80)
10 06 B1 XX 55	10 06 B1 XX 55	Adjust the negative brightness of output video (XX means the input data is between 0-80)
10 06 C0 XX 55	10 06 C0 XX 55	Adjust the Contrast of output video (XX means the input data is between 0-80)
10 06 E0 00 55	10 06 E0 00 55	Switch to 720P resolution
10 06 E0 01 55	10 06 E0 01 55	Switch to 1080P resolution
10 06 E0 02 55	10 06 E0 02 55	Switch to 4K resolution
10 06 F0 00 55	10 06 F0 00 55	Adjust the output video brightness and contrast to the default