

备注

H22003 (ORE01) 说明书：0106020147645

材质：100克书纸

尺寸：111x146mm

装订方式：骑马钉



1080P 2X2 Video Wall Controller

HD-22VW

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1080P 2X2 Video Wall Controller

USER MANUAL

HD-22VW

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Thank you for purchasing this product

For optimum performance and safety, please read these instructions care-fully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Surge protection device recommended

This product contains sensitive components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

Registration page

Please Activate your warranty by registering your product through the link below - www.orei.com/register

Technical Support

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Our experienced Technical Support Team is here for you to answer your questions, give technical advice or help troubleshoot your project to get you installed on time and on budget. Call, email or chat with us now.

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Support Email - info@orei.com | **Support Number** - 877-290-5530

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Introduction

The HD-22VW is a 1 Input 4 Output 2x2 Video Wall Controller. It is the best device For various Video wall setups. It features 8 different video wall modes. Create a beautiful display wall with resolutions up to 1080p@60Hz. The HD-22VW also features an Analog 3.5mm audio output for audio extraction, so you can connect your sound system directly to the controller. The device can be controlled through DIP switches on the front or through RS-232 command control. It is a versatile and powerful video wall controller that is perfect for a variety of applications, such as retail, hospitality, education, corporate, security, etc.



Features & Package Contents

1. 1 Input 4 Output for a 2x2 video wall setup.
2. Resolutions up to 1080p@60Hz.
3. 8 different video wall modes, such as 1x1, 1x2, 1x3, 1x4, 2x2, etc.
4. Switch between modes easily through Dip switches on the front.
5. RS-232 control for easier control through a PC.
6. 3.5mm Analog audio output for audio extraction.
7. Supports 180° flipping in 2x2 mode to flip the upper displays upside down.
8. Micro USB firmware upgrade port.
9. Lightning protection, surge protection, ESD protection.
10. Plug and play, no need to install drivers.

Package Contents

1.	HD-22VW	1 pcs
2.	Mounting Ear	2 pcs
3.	Screw	6 pcs
4.	Grounding Screw	1 pcs
5.	RS-232 Terminal Block	1 pcs
6.	DC5V Power Adapter	1 pcs
7.	User Manual	1 pcs

Function setting

RS-232 control

Insert the RS-232 terminal block into the controller and connect using a PC. The three pins are specified as: GND/RXD/TXD. The Video Wall modes can be set by sending the below mentioned RS-232 commands/The default protocol settings are as below:

Baud rate: 9600

Date bits: 8

Stop bits: 1

Control command	Functional description
ES XX On\r\n	'XX' indicates the corresponding HDMI port, which can be turned on or off. From right to left, the HDMI ports are: HDMI: 01,02,03,04 All means all HDMI ports
ES XX Off\r\n	
ES XXX\r\n	'XXX' means splicing mode 000—1x1;001—2x1;010—1x2;011—3x1 100—1x3;101—4x1;110—2x2;111—1x4
Reset\r\n	Reset, device restart
Recover\r\n	Restore the factory settings and read the current dialing status by default
Status\r\n	Status information printing Status: Baud 9600 ES 01 OK ES 02 OK ES 03 FAIL ES 04 FAIL ES 001 OK

Function setting

Baud XX\n	'XX' represents the baud rate value 9600 (default) ,19200, 38400,57600,115200	
Example		
Control command 1	ES 04 On\n	
Functional details	Open the '04'HDMI port	
Return value	Received successfully	ES 04 On OK
	Received unsuccessful	ES 04 On FAIL
Control command 2	ES All Off\n	
Functional details	Close all HDMI ports	
Return value	Received successfully	ES All Off OK
	Received unsuccessful	ES All Off FAIL
Control command 3	ES 001\n	
Functional details	Select; 2 x 1 splicing mode	
Return value	Received successfully	ES 001 OK
	Received unsuccessful	ES 001 FAIL
Control command 4	Reset\n	
Functional details	Reset, device restart	
Return value	Received successfully	Reset OK
	Received unsuccessful	Reset FAIL
Control command 5	Baud 19200\n	

Function setting

Functional details	Baud 19200 OK	
Return value	Received successfully	Baud 19200 OK
	Received unsuccessful	Baud 19200 FAIL

Remarks :

- 1) '\n' Newline character.
2. The modes can be switched by RS-232 only when the Dip switches are set to 111(all facing up).
3. Display rotation modes:
 - 1) When the dip switches are set to 110, enter the command ES201\n to rotate the images 180 degrees. Then enter command ES200\n to resume.
 - 2) When the dip switches are set to 111, enter the command ES110\n to switch to 2x2 mode then enter then the command ES201\n to rotate the image 180 degrees. Then enter command ES200\n to resume.
4. When the dip switches are set to 111, the display will show the image as per the mode set by RS-232 control. If it the switches are not set to 111, the display mode can be changed through other combinations of the dip switches. When the dip switches are again set to 111, the mode set through RS-232 previously will be shown.

Function setting

DIP Switch



Built-in 8 different Video Wall modes. 1 means UP position and 0 means DOWN position. The default setting is 000.

Dip switch state			Splicing mode	
1	2	3		
0	0	0	1x1	
0	0	1	2x1 vertically	
0	1	0	1x2 horizontally	

Function setting

0	1	1	3x1 vertically	
1	0	0	1x3 horizontally	
1	0	1	4x1 vertically	

Function setting

1	1	0	2x2 vertically	
1	1	1	1x4 horizontally (Support RS-232 at the same time)	

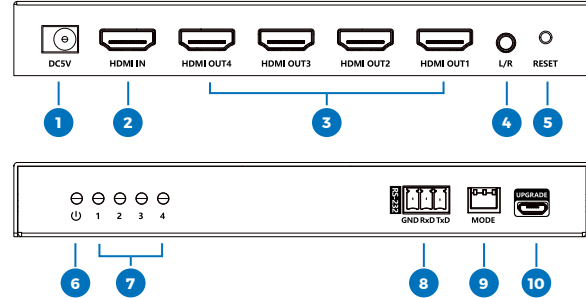
Specifications

Items	Description	
Video signal	HDMI Input	1x HDMI
	HDMI Output	4x HDMI
	Compatibility	HDMI 1.4
		HDCP 1.4
Resolutions	1080P@60/50/30/25/24Hz, 720P@60/50Hz, 576P@50Hz, 480P@60Hz, 1920x1200@60Hz, 1680x1050@60Hz, 1600x900@60Hz, 1600x1200@60Hz, 1440x900@60Hz, 1400x1050@60Hz, 1366x768@60Hz, 1360x768@60Hz, 1280x1024@60Hz, 1280x960@60Hz, 1280x800@60Hz, 1280x768@60Hz, 1024x768@60Hz, 800x600@60Hz, 640x480@60Hz	
Video signal	3.5mm Output	PCM
	HDMI Output	PCM
Splice Settings	Mode	1x1/2x1/1x2/2x2/3x1/1x3/4x1/1x4
	DIP Switch	
	RS-232 (GND/RxD/TxD)	Default baud rate: 9600 Only when the dip switch is set to '111' can the splicing mode be switched by RS-232 instruction
Power	Power Supply	DC5V/1A
	Power Consumption	<4W
Operating Environment	Working temperature	-20 C ~60 C

Specifications

Operating Environment	Storage temperature	-30 C -70 C
	Humidity	0-90%RH (No condensation)
Physical Properties	Housing	Iron
	Weight	381g
	Color	Black
	Dimensions	160(L)*90(W)*20.6(H)mm
Protection	ESD protection 1a Contact discharge level 2 (±4KV) 1b Air discharge level 3 (±8KV) Implementation of the standard: IEC61000-4-2	
	Lightning protection, Surge protection	

Operation controls and functions



- 1 DCSV Power input:** Connect the DC 5V/1A power adapter to power the device
- 2 HDMI IN:** Connect media source device
- 3 HDMI OUT x4:** Connect HDMI display devices
- 4 L/R audio output:** Connect sound system for audio output
- 5 Reset:**
 - 1) Press to restart the video wall controller;
 - 2) Press and hold for 3 seconds to rotate the displays 1 and 2 by 180°(in 2x2 mode, press and hold for 3 seconds and release when the black screen occurs);
 - 3) Press and hold for 10 seconds to restore factory settings (wait until the power indicator is flashing to release)

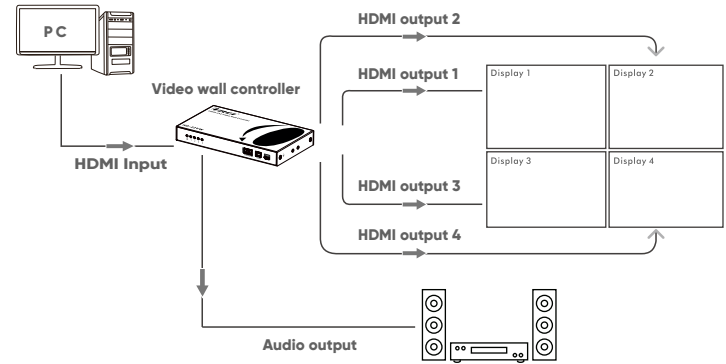
Operation controls and functions

- 6 Power Indicator:** 1) Steady on: The device is on
2) Slow flash: No signal
3) Quick flash: The factory settings have been restored
- 7 HDMI signal light x4:** Corresponding to 4 HDMI outputs respectively. The LEDs will light up green indicating normal signal output
- 8 RS-232:** Connect to a PC through RS-232 for control
- 9 Mode switch:** Dip switches to set different Video Wall modes
- 10 Micro-USB:** Used for firmware updates

Connection Diagram

Description

Connection Diagrams



Connection Diagram

