



3x3 Video Wall Controller - HDMI/DP/USB-C In



G4-0168A

P/N: HDVW33

Thank you for purchasing from gofanco. Our products aim to meet all our connectivity needs wherever you go. For optimum performance and safety, please read the instructions carefully and keep this User's Guide for future reference. If you need more information about our products, please visit www.gofanco.com.

For technical support, email us at support@gofanco.com.

For drivers or manual download, please go to www.gofanco.com/downloads.

Important Safety Notices

Please read safety instructions carefully before installation and operation.

- Please pay close attention to all warnings and hints for this device.
- Do not expose this unit to rain, heavy moisture, or liquid.
- Do not put any items into the device or attempt to modify its operation.
- Do not repair the device or open the enclosure without professional guidance to avoid electric shocks. Doing so may void your warranty.
- Keep the product in a well-ventilated location to avoid damage from overheating.
- Shut off power and make sure environment is safe before installation.
- Do not plug the HDMI cables and IR cables in/out when the device is in use to avoid cable damage. Make sure they are plugged into the correct ports.
- Use the included power adapters only. Make sure the specification matches if using 3rd-party DC power adapters.

Table of Contents

1. Introduction	4
2. Features	4
3. Installation Requirements	5
4. Package Contents	5
5. Product Layout	6
6. Specifications	8
7. Hardware Installation	9
8. Connection Diagram	10
8.1 Single Video Wall Controller - 3x3 Video Wall Setup	11
9. IR Remote	12
10. Splicing mode	14
11. FAQ & Solutions	17
12. Disclaimer	19

1. Introduction

The 3x3 Video Wall Controller-HDMI/DP/USB-C In product, support 3 way video input and 9 HDMI output, the main function is to divide a complete HDMI HD image signal 9 blocks and assign to 9 video display unit. Complete with 9 HDMI high-definition video display units to form a large dynamic image screen.

2. Features

- Supports input signal: HDMI, DisplayPort or USB-C
- Compliant with HDMI 1.4, HDCP 1.4 and DVI 1.0
- Supports input resolution: 1080p 60Hz, 4Kx2K 30Hz
- Supports output resolution: 1080p 60Hz, 4Kx2K 30Hz
- Audio format support: PCM 2ch
- Supports 180 degree image rotation
- Support screen flipping and proportional scaling
- Product includes a total of 17 splicing modes
- Metal casing design and overall shielding without signal interference
- Easy to install, plug and play, no drivers needed
- Supports S/PDIF and Analog audio extraction

3. Installation Requirements

- HDMI source devices (HDMI, DisplayPort, USB-C)
- HDMI displays device (SDTV/Monitor, HDTV/Monitor, projector, etc.)
- HDMI cables (not included)

4. Package Contents

- 3x3 Video Wall Controller-HDMI/DP/USB-C In
- 1x Power adapter (Output: 12V/1A)
- 1x Remote control
- 1x User Manual

5. Product Layout

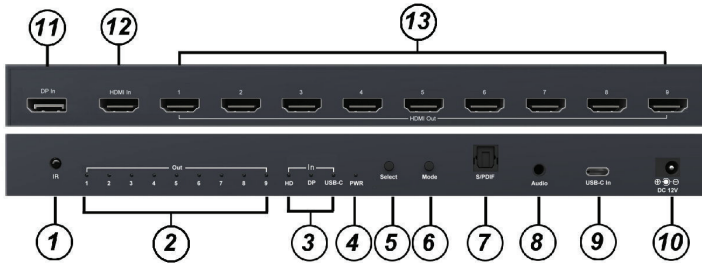


Figure 1: Product Connector

NO.	Name	Function Description
1	IR eye	Receives IR signal from the remote control
2	Output LED	HDMI output 1-9 port indicator
3	Input LED	The active source LED is on
4	PWR LED	Power status indicator
5	Input select	Quick press to choose the input source in order HDMI, DisplayPort, USB-C
6	MODE	Mode switch button
7	S/PDIF	Connects to the digital S/PDIF speakers
8	Stereo	Connects to the analog stereo speakers
9	USB-C input	Connects to the USB-C source device
10	DC/12V	Connects to the included power adapter

Product Layout (Continued)

11	DisplayPort input	Connects to the DisplayPort source device
12	HDMI input	Connects to the HDMI source device
13	HDMI outputs (1-9)	Connects to HDMI displays

6. Specifications

Video format	Ultra HD TV/FHDTV: 4K 30Hz/1080p
Audio format	LPCM 44.1KHz/48KHz
Input ports	1x HDMI, 1x DisplayPort, 1x USB-C
Output ports	9x HDMI, 1x S/PDIF, 1x stereo jack
Splitter mode	1x9 HDMI splitter
Remote control switch mode	1x1, 2x2, 1x2, 2x1, 1x3, 3x1, 2x3, 2x4, 4x2, 1x4, 4x1, 3x3, (Excluding 1x5, 5x1, 1x6, 6x1)
Manual switch mode	1x1, 2x2, 1x2, 2x1, 1x3, 3x1, 1x5, 5x1, 1x6, 6x1, 2x3, 3x2, 2x4, 4x2, 4x1, 3x3
Control	Front panel buttons, Remote control
Power adapter	12V/1A
Product housing	Metal
Operating temperature	0° to 40° C (32° to 104° F)
Operating humidity	5 to 90% RH (no condensation)
Dimensions	10.91" (L) x 1.17" (W) x 4.33" (H)
Weight	1.43 lbs
Country of origin	China

7. Hardware Installation

1. Power off all devices including your source(s) and HDMI display(s).
2. Connect your source device(s) to the controller's input(s).
3. Connect your HDMI display(s) to the HDMI Output(s) of the controller using HDMI cable(s) (HDMI cables not included).
4. OPTIONAL: Connect speakers to the S/PDIF output or Analog output ports.
5. Plug the included power adapter into the controller's Power Jack, then plug the power adapter into a reliable power outlet.
6. Power on all connected devices. The 3x3 Video Wall Controller product is ready for use.

Noted: To avoid electric shock, product damage and to protect your safety, please notice the following:

1. Please slowly plug or unplug signal cables and do not often plug, unplug or shake them.
2. The equipment should not be placed under the sun, rain and damp or unventilated environment.
3. Liquid items should not be placed on the equipment.
4. Do not install the equipment near heat sources such as fire, power or other amplifiers that produce heat.
5. Do not insert the metal or other objects to the equipment in addition to connecting cables to ports.
6. Do not demolish the equipment by yourself; it should be maintained by professional maintenance staff.

8. Connection Diagram

The application diagram shows the most typical input and output devices used with the 3x3 Video Wall Controller product.

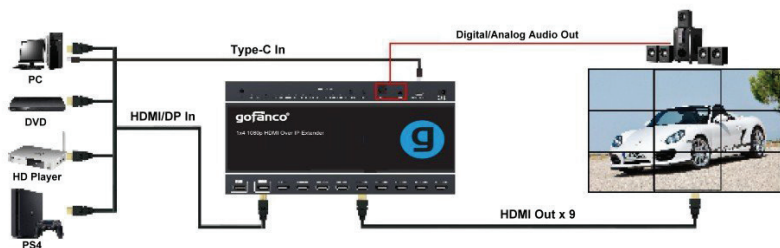


Figure 2: Single Video Wall Controller

Connection Diagram (Continued)

8.1 Single Video Wall Controller - 3x3 Video Wall Setup

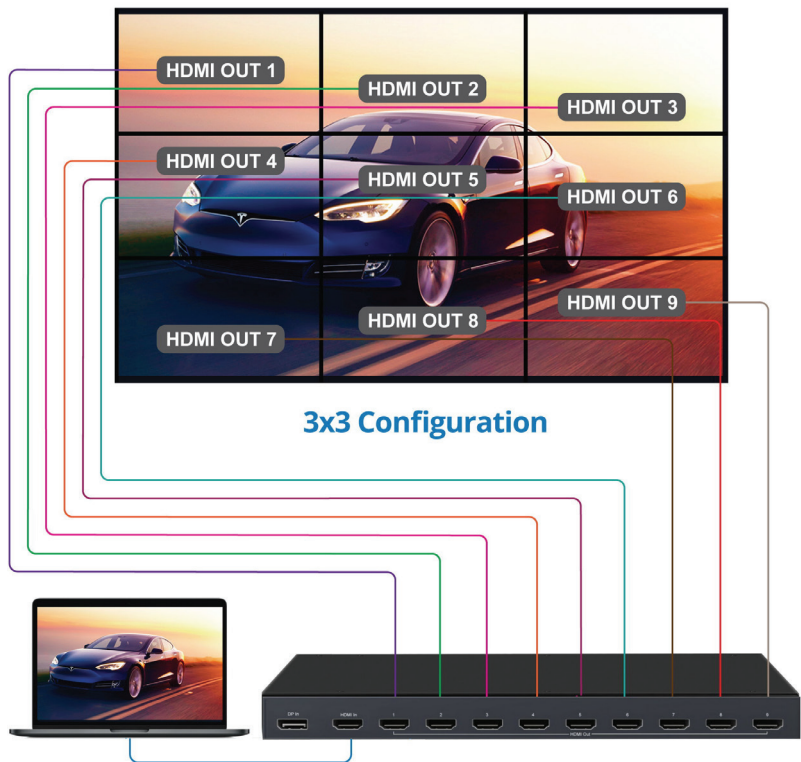


Figure 3: 3x3 Video Wall

9. IR Remote

Users can control the Video Wall Controller using the included remote control. Point the remote control at the Video Wall Controller's IR eye.

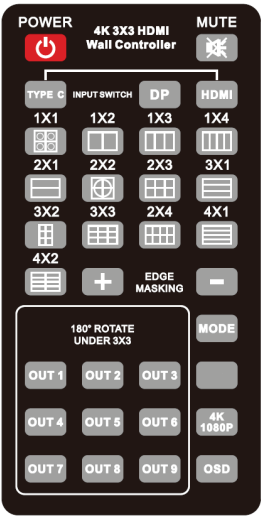


Figure 4: IR Remote Control Layout



Power ON/OFF



Audio ON/OFF



Mode switch



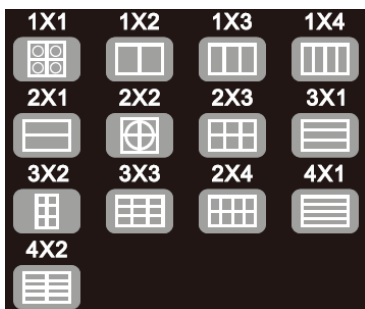
Output resolution switch



Menu display



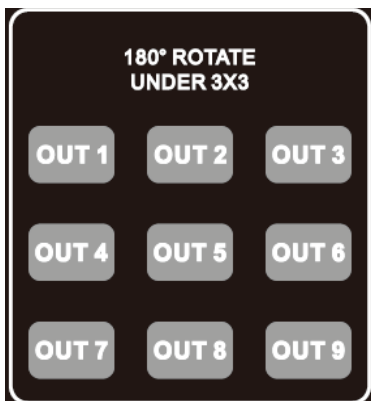
Input switch



Splicing mode

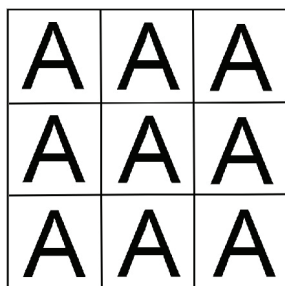


Screen zoom

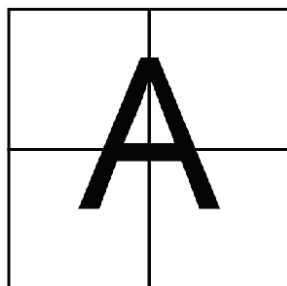


180 degree screen
flipping in 3x3 mode

10. Splicing mode



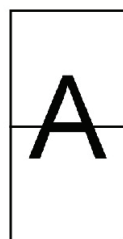
1x1



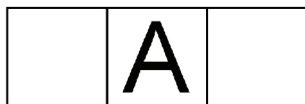
2x2



1x2



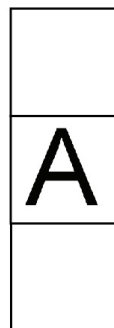
2x1



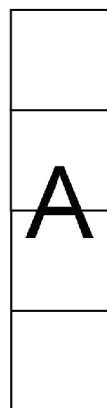
1x3



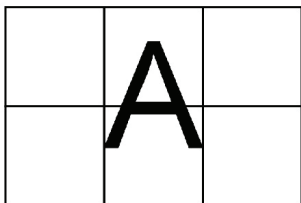
1x4



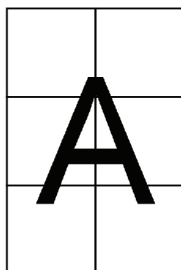
3x1



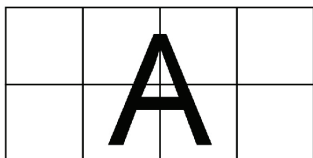
4x1



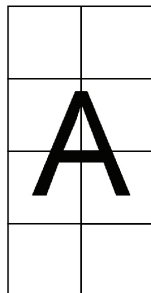
2x3



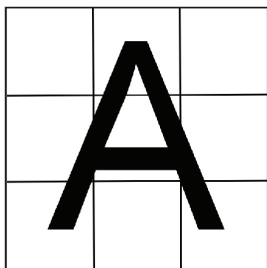
3x2



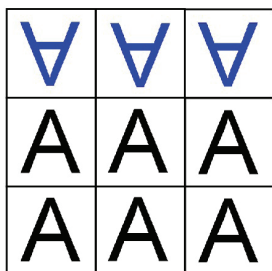
2x4



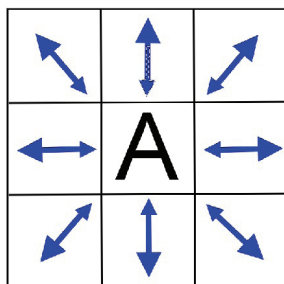
4x2



3x3



180° Rotation under 3x3



Edge Masking

This product includes a total of 17 splicing modes:

Remote control: 1x1, 2x2, 1x2, 2x1, 1x3, 3x1, 2x3, 2x4, 4x2, 1x4, 4x1, 3x3, (Excluding 1x5, 5x1, 1x6, 6x1)

Manual switch: 1x1, 2x2, 1x2, 2x1, 1x3, 3x1, 1x5, 5x1, 1x6, 6x1, 2x3, 3x2, 2x4, 4x2, 4x1, 3x3 (Organize in the order of switching)

11. FAQ & Solutions

Q: Does this controller support 4K input for a 9-screen setup?

A: Yes. It supports up to 4K30Hz input via HDMI / DisplayPort or USB-C. The signal is then scaled and distributed across nine 1080p displays.

Q: My screens are mounted upside down to reduce bezel thickness. Can the image be adjusted?

A: Yes. The unit features a 180° Image Rotation function, specifically designed for bottom-to-bottom monitor mounting in video wall configurations.

Q: Can I extract audio to an external sound system?

A: Yes. It includes dedicated Toslink (S/PDIF) and 3.5mm Stereo outputs to bypass display speakers and connect directly to amplifiers or mixers.

Q: Is there any software or driver installation required?

A: No. This is a Plug-and-Play hardware-based solution. No drivers or PC software are needed; all settings are managed via the front panel or IR remote.

Q: What splicing modes are available besides 3x3?

A: The device supports 17 splicing modes, including common layouts like 2x2, 1x3, 1x9, and 3x3, providing flexibility for different digital signage orientations.

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11. Disclaimer

The product name and brand name may be registered trademarks of related manufacturers. TM and ® may be omitted on the user's guide. The pictures on the user's guide are just for reference, and there may be some slight differences with the actual products. We reserve the right to make changes without prior notice to a product or system described herein to improve reliability, function, or design.



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