PILOTFLY

User Manual

PFY-TVW-0204-4K30

4K30 1x4 TV Wall Controller

Important Safety Instructions

This product is provided exclusively for video recordings in the private use. It isn't provided for commercial or industrial use. The delivered power adapter is intended exclusively for the use with the Pilotfly Product. Every other use isn't as designated. Prior condition for the use as designated is the attention of the notes of this instruction manual. Any liability on the part of the manufacturer for damages which result from a use which is not as designated or caused by unauthorized modifications is excluded. Also use only the accessories specified by the manufacturer.
Please pay attention to the local regulations and laws of the country in which you use this product.

This device is not designated for the use by children and certain other person groups with restricted physical, sensory or intellectual abilities or lack of experience and/or lack of knowledge. Children and person groups cannot recognize always possible dangers correctly. Therefore pay attention, that …

- children older than 14 years and above mentioned person groups ONLY use the device if they have been supervised by you or a safety responsible person or if they were introduced respectively, but NEVER unattended.
- children do not play with or clean or open the device unattendedly. You keep away packing foils! There is danger of suffocation.
- you consider possible dangers for children when you lay the cable, e.g. strangling.

Safety Reminder

To protect the device and operating personnel from electrostatic discharge, you need to check and ensure that the device is grounding well before the device is powered on. Please observe the following when you install, use, maintain this equipment.

Make sure the device ground connection.

Safety Instructions

1. Please read these safety instructions carefully.

2. Please keep this User Manual for later reference.

3. Please disconnect this equipment from connecter before cleaning. Don't use liquid or prayed detergent for cleaning. Use moisture sheet or cloth for cleaning.

4. Make sure the equipment is connected to the power source with the correct voltage, frequency, and ampere.

5. All cautions and warnings on the equipment should be noted.

6. Never pour any liquid into opening, this could cause fire or electrical shock.

7. Never open the equipment. For safety reason, the equipment should only be opened by qualified service personnel.

8. If one of the following situations arises, get the equipment checked by a service personnel :

   a. Liquid has penetrated into the equipment.

   b. The equipment has been exposed to moisture.

   c. The equipment has not work well or you can not get it work according to user's manual.

   d. The equipment has dropped and damaged.

   e. If the equipment has obvious sign of breakage.

9. Ambient operation temperature: 0 ~ 45 degrees.

Caution

Changes or modifications not expressly approved by the manufacturer could void the user's authority, which is granted by the Federal Communications Commission, to operate this equipment.

Safe disposal

Endangering health and environment by accumulators and batteries!
In the Europian Economic Area this symbol indicates that consumers are required by law to return all waste batteries to either a store or another collection point for waste batteries. Waste batteries should never be placed in the household garbage, or anywhere in the environment. This is indicated by the symbol comprising a crossed-out wheeled bin that appears on batteries and/or battery packaging. In the interest of facilitating waste battery collection, manufacturers of portable batteries have established a joint collection.

Retailers are required by law to take back waste batteries free of charge. In Germany, collection boxes in which consumers can deposit waste portable batteries are available at all stores that sell portable batteries, e.g. supermarket, discounter, drugstore or construction market. Some municipalities take waste batteries back, e.g. via vehicles that make regular collections of hazardous waste, or recycling centres.

The legal limit for mercury within button cells is 2 percent (20 grams per kilogram) of mercury, while the limit for all other types of batteries is 0.005 percent (5 milligrams per kilogram). Portable-battery cadmium content is limited to 0.002 percent (20 milligrams per kilogram). Batteries used for cordless power tools, emergency or alarm systems emergency lighting, and medical devices are exempt from this limit.

For batteries whose mercury, cadmium or lead content exceeds specific limit values, this fact must be indicated on the battery or packaging, below the symbol of the crossed-out whelled bin.

Please take care e. g. by taping the individual connection poles that the batteries to be disposed of are unloaded and the connection poles are protected from short circuits.

Potential negative consequences to the environment and human health!
In the Europian Economic Area this symbol indicates that this product shall not be treated as houshold waste. Instead it has to be taken to an applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is dispoesed of correctly, you will help prevent potential negative consequences to the environment and human health, which could otherwise be caused by inappropriate waste handling of this product.

In the Europian Economic Area this symbol indicates that you should dispose the packing materials environmentally sensible according to the local regulations.

Contents

1. Introduction

This TV Wall controller is designed to be a truly capture, AD convert, route, distribute all-format signal to the video wall(LCD displays), while maintaining a true digital signal.

The controller with many different video interfaces, include 2 HDMI inputs with 4K30 resolution and 4 HDMI outputs with 1080P resolution. Supports different Video Wall modes, 1x2, 1x3, 1x4, 2x2 etc, with the 4K input and 1080P output, it can realize the point to point display. Support the 3.5mm audio de-embedded and with volume knob for sound adjustment. This controller can be controlled by remote control and front buttons

2. Features

➢ Supports 2 HDMI inputs, resolution up to 4K30
➢ Supports image 180 degrees rotation (good for the ceiling installation)
➢ Supports 4 HDMI with 1080P60 resolution outputs
➢ Supports multiple splicing ways: 2x2, 1x4, 4x1, 1x3 ...
➢ Supports the splicing edge adjustment
➢ Supports HDMI 1.4, HDCP1.4 compatible
➢ Supports the IR remote and push-button control

3. Specification

Product name	4K Video wall controller
Control	Front buttons, remote control
Input	2* HDMI(up to 4K/30Hz resolution)
Output	4*HDMI(up to 1080P60)
Resolution	4k30 input and 1080@60Hz output
Display splice mode	2x2, 1x4, 4x1, etc...
Power Supply	DC 12V1.5A
Power Consumption	10W
Dimension (WxHxD)	240x154x28mm/ 9.45x6.06x1.1 Inch
Weight	1.16KG/ 2.56lbs
Operating Temperature	-10℃ to 50℃
Storage Temperature	-25℃ to 55℃

4. Packing

TV Wall Controller	1	Unit
Power adapter	1	Pcs
Remote control	1	Pcs
Mount ears	1	Pair

5. Panels

5.1 Front Panel

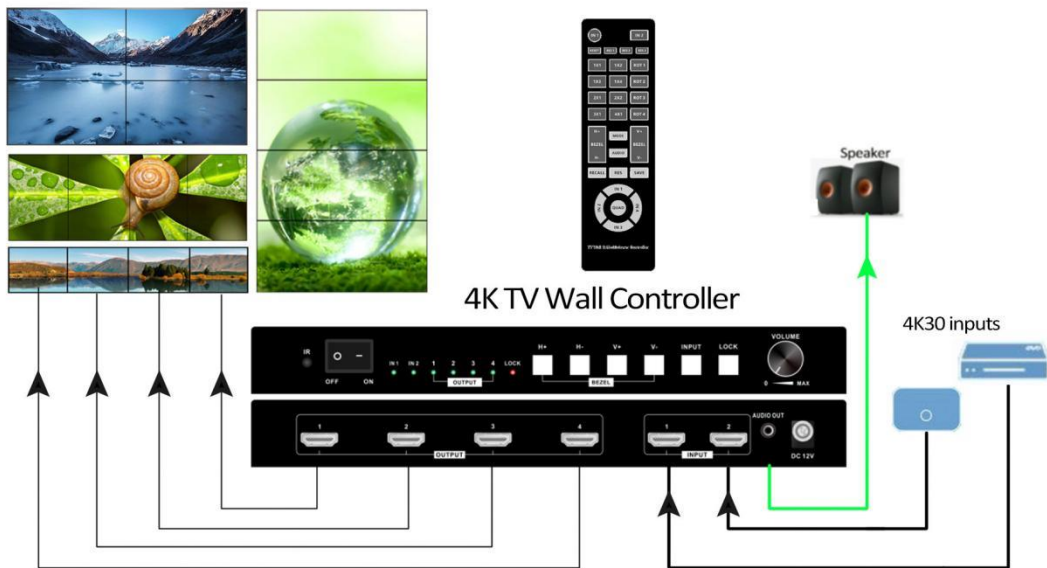| Mark	Name	Description
IR	Infrared Receiver Module	Accept the command from the remote control
OFF ON	Power Button	Switch the power of device on and off, ON: Device is powered on. OFF: Device is powered off.
IN1 IN2	Input Light	Showed the currently displayed signal source, IN1 is green light, IN2 is blue light
OUTPUT	Output Light	Showed the currently displayed signal source
LOCK	Lock Screen Light	When the light is on, the front panel button function are locked
BEZEL	Bezel Correction Button	H+.H- is horizontal adjustment , V+,V- is vertical adjustment
INPUT	Input Source Button	Switch the Input Source between input 1 and input 2
LOCK	Lock Button	Push lock button in 1 seconds, it will unlock, the function of front panel button is workable when user push
VOLUME	Spin Button	Rotate VOLUME to the left to reduce the voice, Rotate VOL VOLUME to the Right to turn up the voice

5.2 Back Panel

Mark	Name	Description
OUTPUT	1-4 1080P HDMI output ports	Connect to the HDMI port display
INPUT	1-2 4K30Hz HDMI Input ports	Connect to an HDMI source device

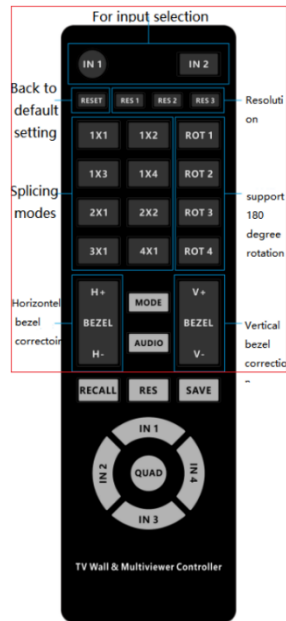| AUDIO OUT	3.5mm Audio output	Connect to 3.5mm ports an audio decoder such as an amplifier for audio de-embedding output from HDMI source.
DC 12V	Power ports	Connect to the power adapter provided.

6. Operation diagram

6.1 Connection diagram

6.2 IR remote control

6.3 Dial the code

D1	D2	D3	D4	D5	D6	D7	D8	Resolution
1	0	0	0	0	0	0	0	dispsOFF
0	0	0	0	0	0	0	0	dispsON
0	1	1	1	0	0	0	0	1920X1080
0	1	0	0	0	0	0	0	1920X2160
0	1	0	1	0	0	0	0	1920X3240
0	1	1	0	0	0	0	0	1920X4320
0	0	0	1	0	0	0	0	3840X1080
0	0	0	0	0	0	0	0	3840X2160
0	0	1	0	0	0	0	0	5760X1080
0	0	1	1	0	0	0	0	7680X1080

D5	D6	D7	D8	Inverted image of Screen
1	0	0	0	Output 1 port screen inverted image
0	1	0	0	Output 2 port screen inverted image
0	0	1	0	Output 3 port screen inverted image
0	0	0	1	Output 4 port screen inverted image

D1 is the general toggle switch of all toggle switches. When a toggle switch reaches

0, the toggle switch is enabled. When a toggle switch reaches 1, the toggle switch is disabled. The dip switch takes effect only after it is powered off and restarted

7. Product operation

7.1 Working mode of video wall

User can set a variety of patterns by splicing patterns, such as number of stitching machine output interface to 4, user can put the splice mode set to 1 x1, 2 x1, 3 x1, 4 x1, x2, 1 2 x2, x3, x4 1 and so on the many kinds of patterns

7.2 Inverted image of Screen

Rotate 180 degrees namely, because a lot of liquid crystal TV go up as a result of frame narrow fall wide, a meeting when making wall of joining together is inverted to cause an image to be reversed, through mirror function can set independently whether each screen rotates 180 degrees. During operation, the physical address of the corresponding screen is first used, and then the remote control such as ROT1 is used to modify the 180 degree rotation of the corresponding image.

7.3 Horizontal joint size, vertical joint size

The physical gap of the LCD screen causes the complete image to be forcibly pulled apart for a certain distance, resulting in image deformation and distortion. Part of the image is lost by adjusting the size of horizontal splicing and vertical splicing, but the image is not deformed and distorted, as shown below:

8. After-Sales

8.1 Warranty Information

The Company warrants that the process and materials of the product are not defective under normal use and service for 2 (2) years following the date of purchase from the Company or its authorized distributors.

If the product does not work within the guaranteed warranty period, the company will choose and pay for the repair of the defective product or component, the delivery of the equivalent product or component to the user for replacement of the defective item, or refund the payment which users have made.

The replaced product will become the property of the Company.

The replacement product could be new or repaired.

Whichever is longer, any replacement or repaired of the product or component is for a period of ninety (90) days or the remaining period of the initial warranty. The Company shall not be responsible for any software, firmware, information, or memory data contained in, stored in, or integrated with the product repaired by the customer's return, whether or not during the warranty period.

8.2 Warranty limitations and exceptions

Except above limited warranty, if the product is damaged by over usage, incorrectly use, ignore, accident, unusual physical pressure or voltage, unauthorized modification, alteration or services rendered by someone other than the Company or its authorized agent, the company will not have to bear additional obligations. Except using the product properly in the proper application or normal usage

Nevertheless, if you should have problems with your product, please address your enquiry to info@pilotfly.de. We help you along willingly promptly and give you information about the next steps.

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