



# **4K Video Wall Controller For 2 Displays**

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## **LM-TV02-4K2K**

### **User manual**

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# 1<sup>st</sup>. Installation Instructions

For your safety and equipment, please be sure to read the safety instructions carefully before using this equipment.

If you are in doubt, please read the manual. It has a detailed description of the device operation. If you still have any questions, please contact us and we will give you a satisfactory reply as soon as possible.

There is no extra-notice if the specification is changed.

Equipment installation, please note the following:

## 1.1. Power supply

This device uses 12V/3A power adapter, power adapter support 100–240V AC voltage input, in order to make the device can work normally, please do not use other power adapter.

## 1.2. Power off

When you need to move the equipment or other work that needs to be cut off power, turn off all the power and unplug the power plug to ensure the safety of the equipment.

## 1.3. Cable

Can not be in power lines, signal lines, communication lines and other cables on the items, should avoid the cable was trampled or squeezed to prevent leakage or short circuit and other dangerous.

## 1.4. Signal line connection

When the device is inserted and pulled out, the equipment needs to be power off to avoid damage to the equipment. Damage caused by live plug is not within the scope of warranty.

## 1.5. Cooling hole

The outer surface of the equipment may have a hole for heat dissipation, do not plug the openings, so as not to heat accumulation, damage to equipment or cause fire hazards.

## 1.6. Equipment placement

Reasonable placement of equipment, such as the standard frame, chassis, cabinets, or placed in a stable and smooth work table, to prevent the equipment fall.

## 1.7. The environment

Equipment working environment should pay attention to dust, moisture, especially to prevent liquid immersion and splashing into the equipment.

## 1.8. Maintenance

All maintenance work should be done by professional maintenance personnel. In order to prevent the risk of electric shock, do not open the cabinet.

## 2<sup>nd</sup>. Product Introduction

### 2.1 Overview:

LM-TV02-4K2K is a high-performance UHD Ultra HD 4K two displays mosaic, its main function is to 1x2 Tiled display unit displays a 3840x1080@60HZ Super high definition images. Products using advanced image processing technology, the input signal can support HDMI2.0, that is 3840x2160@60HZ, will not appear, even when playing fast animation no delay, no dropped frames.

Support 1 channel HDMI 2.0 、 1 channel mobile signal 、 1 channel DP 1.2 input, Maximum resolution support 3840\*2160@60Hz. 2 channel HDMI Signal output, the output resolution is fixed to 1920\*1080@60HZ.

Other more detailed feature descriptions, please refer to the product specifications.

### 2.2 Machine Pictures



## 2.3 Specification

Name	Spec
HDMI input	
Interface	HDMI A type (HDMI2.0 support HDCP2.2)
Resolution	Up to 3840*2160@60Hz
mobile signal input	
Interface	HDMI A type (HDMI1.4 support HDCP2.0 and mobile signal)
Resolution	Up to 3840*2160@30Hz
DP input	
Interface	DP1.2
Resolution	Up to 3840*2160@60Hz
Audio output	
Fit for output video	
HDMI output	
1920*1080@60Hz	
Input Numbers	HDMI*1, mobile signal*1, DP*1
Output Numbers	HDMIx2
Controller	Remote, button
Power supply	DC 12V/3A
Operating Ambient Temperature	0°C~60°C
Storage Temperature	-20°C~70°C
Humidity	<75%
Dimension	236mm (L) x140mm (W) x30mm (H)

## 3<sup>rd</sup>. Machine Installed

### 3.1 Open the package

Check host attachments. Include the host, the power cord, remote control, warranty card and instructions.

### 3.2 Installation machine

#### 3.2.1 TV sets:

LCD TV or other display device setting input signal to **HDMI** state. Display unit has multiple **HDMI** input ports, make sure that connection splicer **HDMI** lines corresponding to the port.

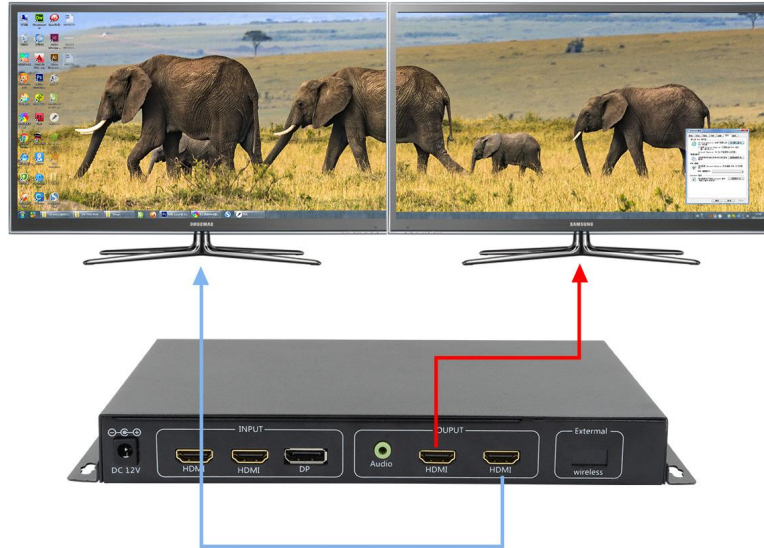
#### 3.2.2 Stitching device connected to the display unit:

When in place of video mosaic, by **HDMI** Lines connect with the display unit, please note that the display unit must correspond with the splicing processor is connected to the port.

2 Display unit through HDMI Line connect 2 OUTPUT ports are connected as shown in the following figure:

Display unit on the left side -----HDMI (On the right HDMI output Interface, as demonstrated in)

Right display unit ---HDMI (On the left HDMI output Interface, as demonstrated in)



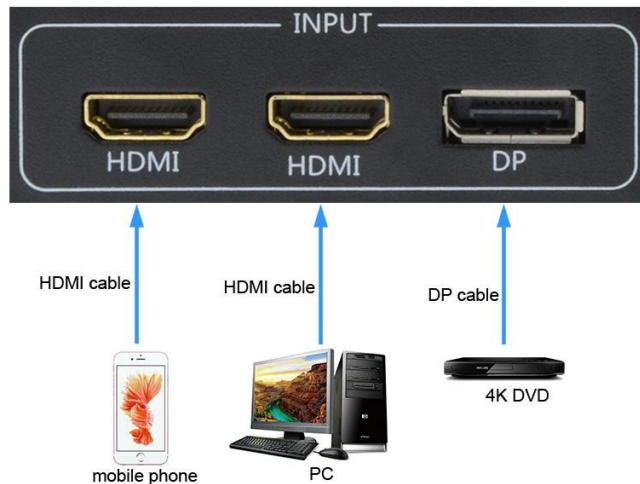
### 3.2.3 Input signal connections

Product support 1 channel HDMI 、 1 channel mobile signal 、 1 channel DP Input, all input embedded audio input, users can access all the signals on demand, or access part of the signal, interface functions and interface pictures are as follows:

**mobile signal :** Support HDMI1.4 Signal input, maximum support 3840x2160@30Hz HDMI Signal input can be downward compatible; through a HDMI Lines can also be compatible with mobile signal Output image output device, such as mobile signal Enabled mobile phones or Tablet.

**HDMI :** Support HDMI2.0 Signal input, enter the maximum resolution supported 3840x2160@60HZ.

**DP** Support maximum resolution support 3840x2160@60HZ.



### 3.2.4 Audio connection

A-OUT is audio output, can purchase an ordinary computer audio and A-OUT Connections.

### 3.2.5 Power on boot

After the above cable connection is ok, through the power adapter to the device input 12VDC power supply, the power led shows red, equipment in working condition.

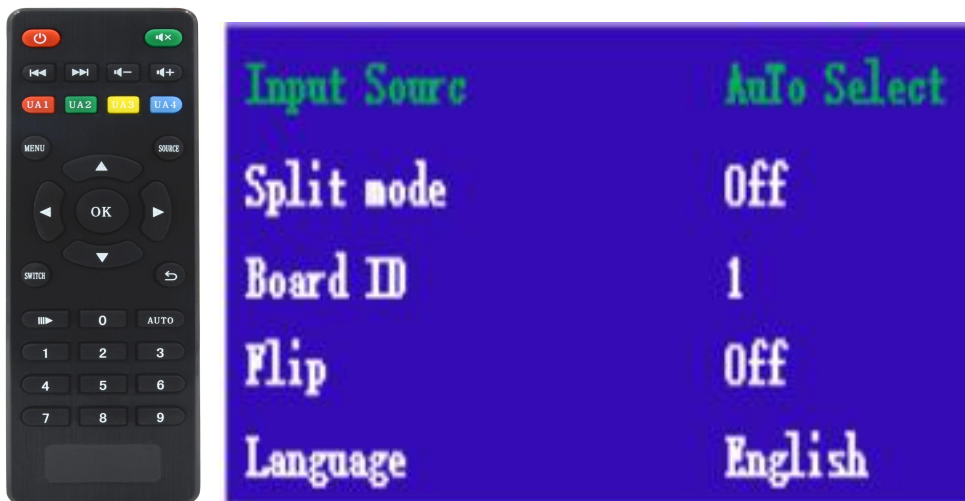
## 4<sup>th</sup>. Remote control settings

Stitching device and the display unit are attached, connected to power the red power light is on, the device works, by remote control or key makes it easy to set up your equipment, or the chassis configuration.

### 4.1 Remote control settings:

#### 4.1.1 Menu

Press **MENU** key, as show below:



#### 4.1.2 Select submenu

Press the **MENU** key to select the different submenu, the submenu to stay red text, press OK to enter the sub menu, select menu into the green text function can be set to the corresponding sub menu.

#### 4.1.3 Change product settings

After the submenu becomes green, change the product parameters or attributes by remote control or key, press the return key to save the settings and exit the menu.

### 4.2 signal source selection

LM-TV02-4K2K signal source menu options are: automatic selection, D0: DP, D1:HDMI, D2:mobile signal

#### 4.2.1 automatic selection:

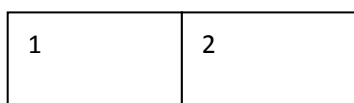
Through the remote submenu "source" set to "automatic selection", in the original equipment without access to other signal source, can automatically identify the inserted signal source and the signal source is automatically displayed in the splicing unit.

#### 4.2.2 manual selection:

The utility model can be used for a single signal source or a plurality of signal sources and is connected with the equipment at the same time.

### 4.3 Split mode

Through the submenu can choose a variety of splicing patterns, such as 1x2 or off mode, as follows:



### 4.4 Board ID and flip function

By selecting the "ID card" after the ID, whether the image needs to be rotated 180 degrees set in the menu "flip" two screen splicing device in 1x2 splicing mode of rotating ID 1, need to output HDMI1 and HDMI2 on the road.

### 4.5 language

Remote control menu can choose: English, simplified Chinese, traditional Chinese three different menu display language.

## 5<sup>th</sup>. Chapter button settings

Through the chassis key control functions and remote control to achieve the same function, this section only explain the function of each button, as follows:

**Menu/↓** key: pop up the following main menu, press the Menu button repeatedly to stop the cursor in different sub menus;

**Select/→**: modify the red submenu parameters;

**Save/exit**: to modify the parameters to save and exit the menu;

**HDMI**: all keys to the device HDMI port input signal source;

**mobile**: all keys to the device mobile signal port input signal source;

**DP**: all keys to the device DP port input signal source.





## 6<sup>th</sup>. FAQ

6.1 question: indicator light does not light?

Answer: please confirm whether the power supply is ok.

6.2 question: what is the meaning of the red light and the green light?

Answer: red light on behalf of the machine with electricity but no signal source, the green light on behalf of the normal operation of the machine and the channel has a signal source input.

6.3 question: display shows No signal or No cable?

A: first check whether the signal source is selected or the signal source is selected automatically.

6.4 question: the above two screen 180 degree flip, how to install?

Answer: connected to the first block with the second screen HDMI signal socket should be in accordance with the instructions of the normal order of reverse connection, and then enter the menu to select the board ID is 1, then choose to flip.

6.5 question: output interface for the DVI display, can support?

Answer: HDMI and DVI although the data definition is consistent, but the agreement is different, DVI display may not show.