LINK-MI®

LINK-MULTIMEDIA INTERFACE

2x2 Video Wall Controller 4K@30Hz

Model: LM-TV04Q

User Manual

Table of Contents

Foreword

1. Welcome to use our products, thank you for your support to our products! For the safety of you and the equipment, please be sure to read the product manual carefully before using the equipment.

2. The product is labeled with fragile label, please pay attention to protection, it will be used as a warranty certificate.

3. This product does not support direct point screen, the connected output is HDMI interface.

4. If you have any questions during use, please read this manual first; there is a detailed description of the operation of the device in the text, please operate according to the specifications introduced in the book; if you still have questions, please contact us, we will give you a satisfactory answer as soon as possible.

5. If there is any version change in this manual, please understand without notice!

1. Notes

1) Please use DC 12V-2A power supply, and make sure the whole engineering system use the same protective ground.

2) Do not press and place objects on the power cable, signal cable, communication cable and other cables, and should avoid the cable being stepped on or squeezed to prevent the risk of leakage or short circuit.

3) equipment plugging, unplugging signal lines, the equipment needs to be powered off operation, the damage caused by plugging and unplugging with electricity is not covered by the warranty.

4) There may be openings on the outer surface of the equipment for heat dissipation, do not block these openings to avoid heat accumulation leading to damage to the equipment or cause fire and other dangers.

5) The working environment of the equipment should be dustproof and moisture-proof, especially to prevent liquid immersion and splashing into the interior of the equipment.

6) Use relative humidity: ≤ 80%, storage temperature: -10 ℃ - +80 ℃.

7) Use temperature: 0 ℃-+70 ℃.

8) The whole machine assembly and transportation process pay attention to anti-static treatment.

9) The whole machine can be assembled under or side mounted, do not be subjected to heavy pressure.

The connection line between this product and the supporting module board should not be too long, otherwise it may affect the performance and image quality.

2. Features

1. This product is a special LCD TV, ultra-narrow LCD screen, projector HD screen splicing processor, a single unit supports 4 HDMI signal output, connected to LCD TV or other display devices, can be customized according to user needs of various splicing mode.

2. Support cascade, the maximum 255 signal output.

3. HD processing chip, up to support 4K @ 30HZ HDMI signal input.

4. Support infrared remote control, the user can remote control the splicer for a key quick control and full function
Simple and convenient, the remote control adopts ultra-sensitive design, easy to use.

5. Support 1 HDMI input signal to the large screen for splicing display.

6. Support audio independent output, support audio and video synchronous output.

7. Support all models of splicing screen and 180 degree image rotation.

8. Support border fading technology, in the case of not using the border fading, the image will appear visually stretched away; after the border fading processing image without distortion, stretching, visual more natural and realistic.

9. Intelligent fan cooling, product performance is more stable and reliable

3. Technical parameter

Item	Parameter	Specification
Input Signal	HDMI signal	HDMI1.4 HDMI with audio resolution support 640x480 to 3840x2160@30Hz;
Output Signal	HDMI1	Support 2x2 1x4 4x1 video wall mode, max resolution upto 1920x1200@60Hz;
	HDMI2	Support 2x2 1x4 4x1 video wall mode, max resolution upto 1920x1200@60Hz;
	HDMI3	Support 2x2 1x4 4x1 video wall mode, max resolution upto 1920x1200@60Hz;
	HDMI4	Support 2x2 1x4 4x1 video wall mode, max resolution upto 1920x1200@60Hz;
Audio Output	Audio	3.5 audio interface, supporting left and right channel stereo, simultaneous switching of audio and video signals.
Other	Control	IR remote, buttons
	Power	DC12V - 2A
	Video wall mode	Simple type 4 HDMI out video wall
	Power consumption	15W
Carton box size	Size	210mm(L)*160mm(W)*45mm(H)
	Weight	1.2kg

4. Packing Contents

1. 1x Video Wall Controller
2. 1x Remote control
3. 1x Power supply 12V 2A
4. 1x Manual

5. Interfaces

Front Panel

1. **IR**: IR light

2. **POWER**: Power light

3. **MODE**: Splicing mode switch button

Rear Panel

4. **DC 12V**: Power Input

5. **HDMI**: HDMI input port

6. **HDMI 1**: HDMI 1 output port

7. **HDMI 2**: HDMI 2 output port

8. **HDMI 3**: HDMI 3 output port

9. **HDMI 4**: HDMI 4 output port

10. **AUDIO**: Audio output

6. Connection Diagram

HDMI Output 1-4

Remote

Power Input

HDMI Input

Audio Output

Power Supply

Notebook

Amplifier
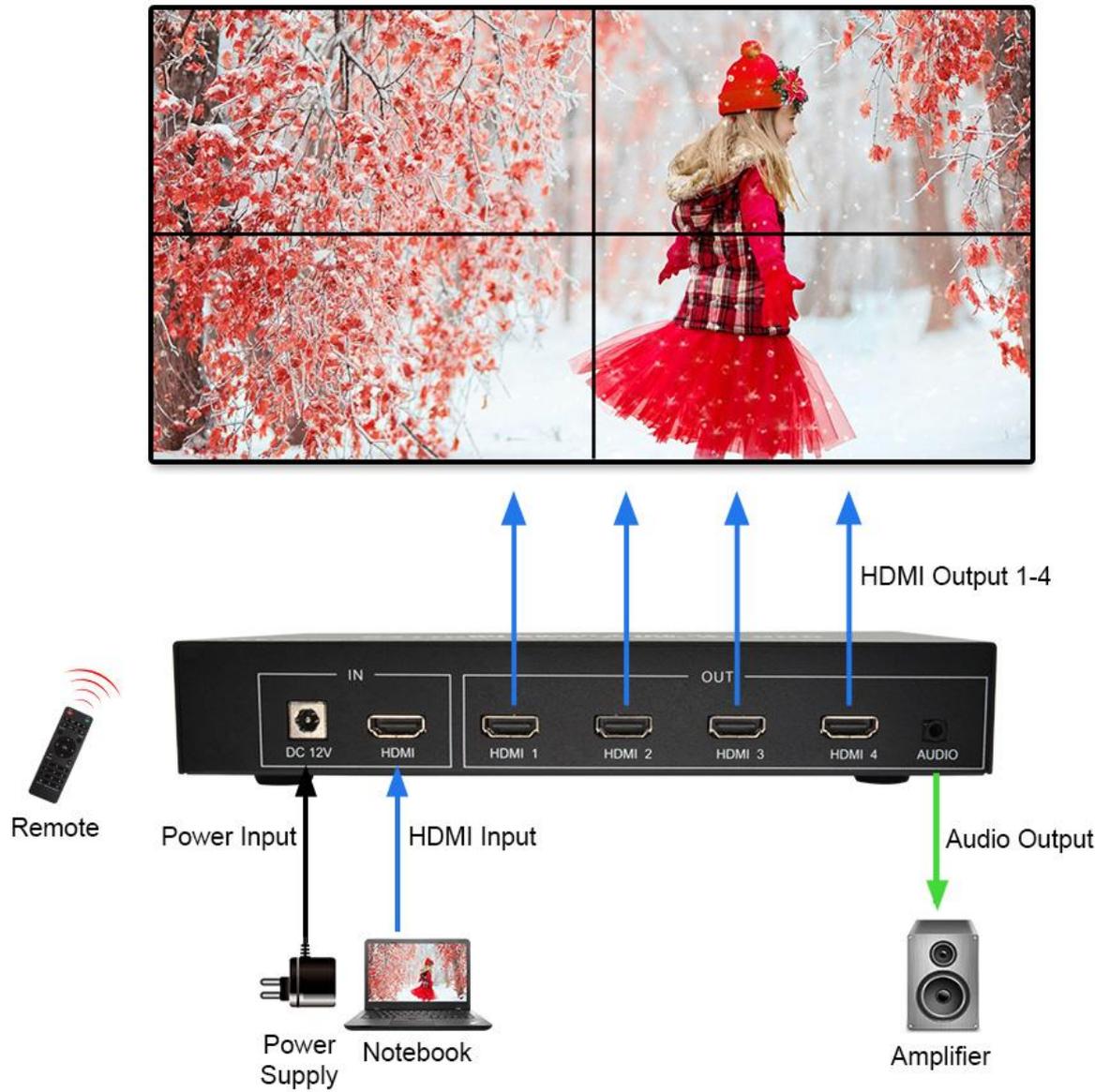
7. Remote control key description

OFF	Power on
ON	Power off
DP	No function
HDMI	No function
DVI	No function
🔈	Volume reduction
🔊	Volume up
↻	No function
SW/SP	Splicing / Decomposition
INPUT	No function
←	Leftward menu options
→	Right menu options
↑	Up Menu Options
↓	Down Menu Options
OK	OK
MENU	Menu options / Back to previous level
EXIT	Exit Options
MUTE	Mute option
UPGRADE	No function
No 1-9	No function
AUTO	HDMI/DVI ouput switch

8. Function description

8.1 Setup Menu

8.1.1 2x2 splicing installation instructions

A. Connect the input signal (HDMI) to the input of the splicing box.
B. Connect the HDMI output of the splicing box to the four large screens.
C. Call out the splicing menu through the remote control or the button "MENU" on the device panel, select "left" and "right" to position the menu to the splicing menu (press "Up" and "Down" to select the corresponding options, and "Left" and "Right" to adjust the parameters). Select "Splicing Mode Setting" as "2X2".
D, select the HDMI Port port and splicing number, and according to the prompt on the upper left corner of the screen to adjust (for example: 2X2 mode, set the corresponding HDMI Port 1, the splicing number 1 will be displayed in the

upper left corner of the 2 × 2 HDMI Port 1 Splice Index 1)

HDMI Port	4
SplicePosition	**4**
HDMI Port Rotate	0

ENTER Enter ↰ MENU

SpliceConfig	2X2
HDMI Port	1
Splice Index	1
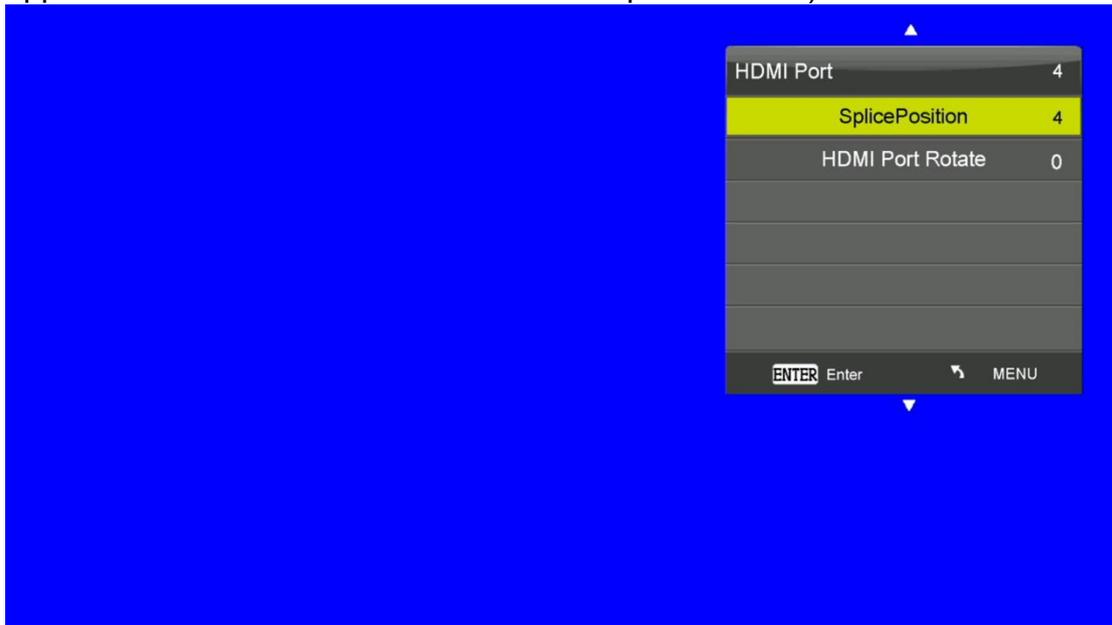
E, set up the remaining three screens in turn

F, set the completion of the splicing mode, splicing position, select splicing: open, complete the splicing settings.

8.1.2 Border fading.

Border fade function: adjust the horizontal/vertical fade function, effective when the image is in the splicing state, the default value is 0, adjust the value to remove the border part of the image, adapt to different border size screen, so that the overall image display more three-dimensional.

8.1.3 HDMI Port Rotation.

Corresponding to the output HDMI Port channel rotation, support 0/ 180 degrees rotation.

8.1.4 OSD Language.

Set the menu language, support Chinese/ English.

8.1.5 Blue Screen Mode.

Set no signal state blue screen/black screen display. On: Blue screen. Off: black screen.

8.1.6 Reset

Restore factory reset.

8.2 Options menu：

8.2.1 OSD Timer

Set the closing time of OSD menu, default 15 seconds

8.2.2 Key light

Set the key light on, off, dynamic mode

8.2.3 Fan

Set the fan to be always on or always off, it is recommended to be always on to avoid untimely heat dissipation, resulting in abnormal machine

8.2.4 HDMI output resolution

Set the output resolution of the output port, the default 1920 * 1080.

8.2.5 HDMI standard

Select the HDMI port output standard and set HDMI/DVI output.

8.3 Screen settings
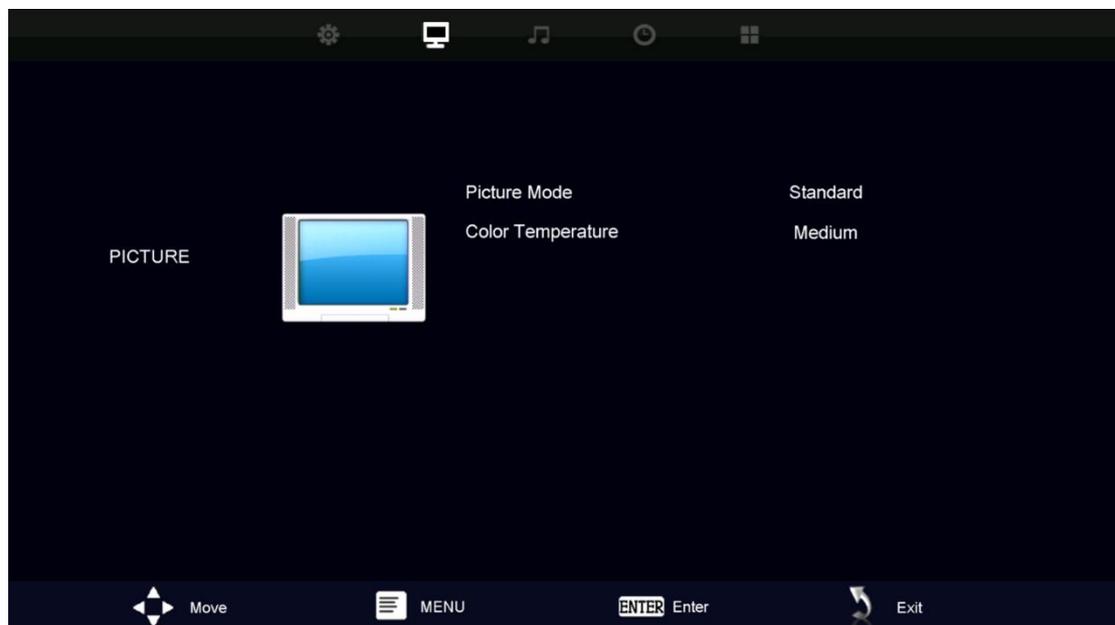
Image mode: Default standard. Standard/Dynamic/Mild/User
Color temperature: default Medium. cool/Medium/warm

8.4 Sound Setting
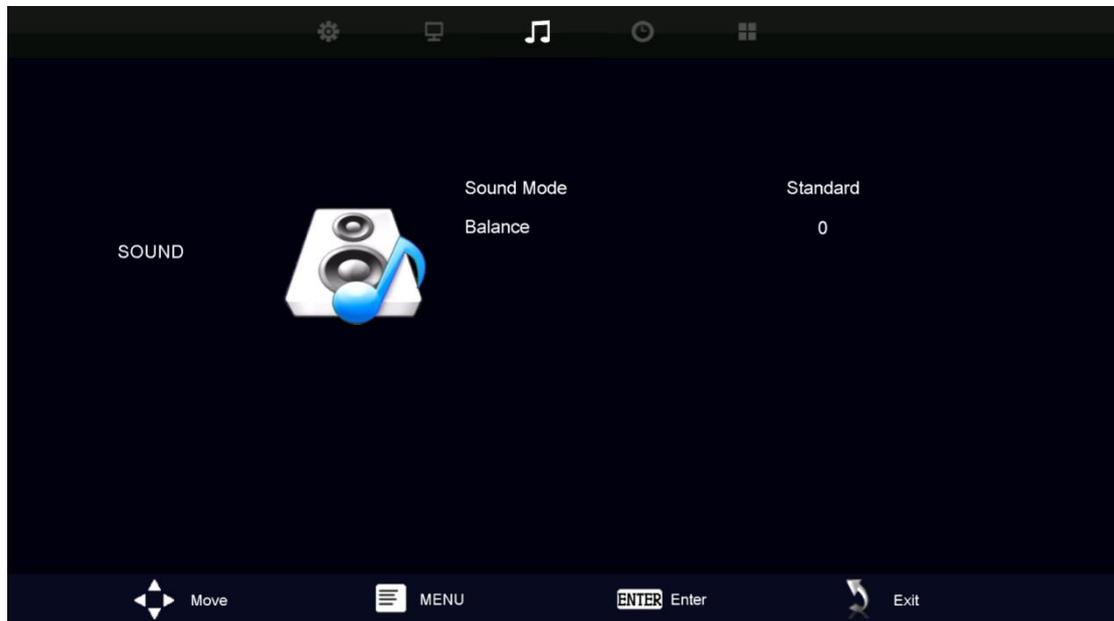
Sound Mode: Default Standard. Standard/Movie/Music/Sports/User
Balance: Default 0. Parameters 0~100

8.5 No signal display
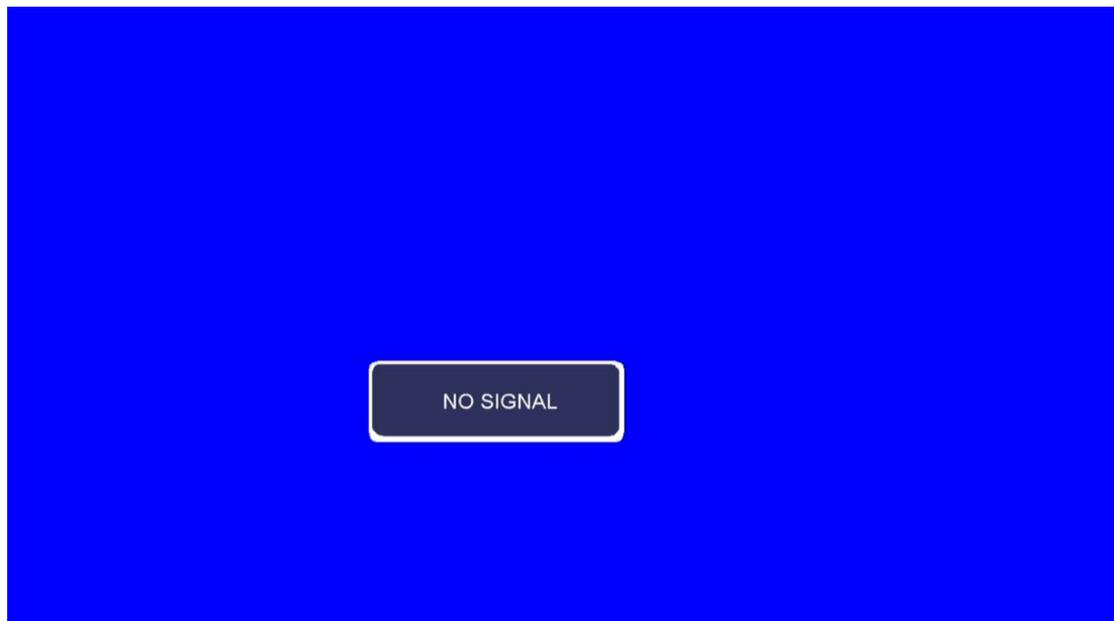
When there is no input signal, prompt NO SIGNAL display box

9. Common problems and solutions

- After normal link and start, the screen shows "No signal".
1. Please check whether the signal cable on the device is plugged in properly.
2. Try to restart the device and re-capture the signal.
3. Try to replace the signal cable.
4. Is the signal switched correctly.

- The remote control can not control the video wall controller

1. Check whether there is any abnormality in the remote control and whether there is a battery.
2. Check whether the distance is too far and whether there is an obstacle in the middle.

-When you find that the picture does not match after you finish wiring and start splicing
1.Check whether the row and column position setting in the splicing setting is correct.
2. Check whether the screen serial number and splicing serial number correspond to each other in the splicing setting.

- The screen is very blurred / splash screen heavy shadow
1. Check whether the input and output signal lines are normal.
2. Check whether the display device is working properly.

10. Warranty instructions

Products from the date of purchase, can enjoy a one-year warranty service. In addition to postage, delivery and other miscellaneous charges, warranty service is free of charge, the following cases are not in the warranty service: 1.
1. products due to accidental damage, unauthorized repair, improper storage, etc., resulting in mechanical failure, are not included in the scope of the warranty.
2. The company will refuse to provide warranty service if the fragile label attached to the product is damaged.

SHENZHEN LINK-MI TECHNOLOGY CO., LTD