



# 4X1 Seamless 4K HDMI Multi viewer with KVM

Model: LM-SH41T



## User Manual

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## **Dear Customer**

Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

# 1. Introduction

LM-SH41T is a high-performance ultra HD 4K Quad-view Multi Viewer. It's capable of displaying 4 x 4K signals simultaneously on a single 4K display unit.

It also features seamless switching, allowing for quick switching of audio and video. It supports KVM keyboard and mouse switching, as well as audio switching, and the switching of display modes and audio can be achieved through keyboard shortcuts.

The device supports 4 x HDMI 1.4 inputs, with a maximum input resolution of 3840x2160@30Hz, and is backward compatible. It has 1 x HDMI 1.4 output, with a maximum output resolution of 3840x2160@30Hz. It supports 4 USB inputs for connecting computers and 2 USB outputs for connecting a mouse and keyboard.

This Multi Viewer is a widely-used standard product in the current market. It is primarily used in places which need to display multiple high-definition signals simultaneously on a single display unit, such as video conferences, teaching, exhibition displays, and stock markets.

## 2. Feature

1. The individual display unit supports quad-view, left-right view, top-bottom view, and full-screen display modes.
2. Support 4-way HDMI 1.4 signal input, max. input resolution 3840\*2160@30Hz. It's also backward compatible with lower resolution signals.
3. With 1-way HDMI 1.4 output, max. output resolution 3840x2160@30Hz. It can also switch the output resolution to 1920x1080@60Hz, 2560x1440@60Hz, 3840x2160@30Hz, and 1280x720@60Hz.
4. Support stereo audio output for the left and right channels through a 3.5mm headphone jack.
5. Support various display modes like non-deforming display and pixel-to-pixel display under left-right and top-bottom multi viewer modes.
6. Support KVM switching function with keyboard hotkeys for switching display modes, audio, and mouse cursor across under quad-view mode.
7. Support fixed position POP and PIP function.
8. Support seamless and instant switching, no black screen when switching between single-screen or different multi viewer modes.

9. Support chassis buttons, infrared remote control, keyboard hotkeys, RS232 serial port software control, and centralized control functions.

10. With LED indicator buttons, you can easily see the channel to which the signal is switched and whether it is in cut mode.

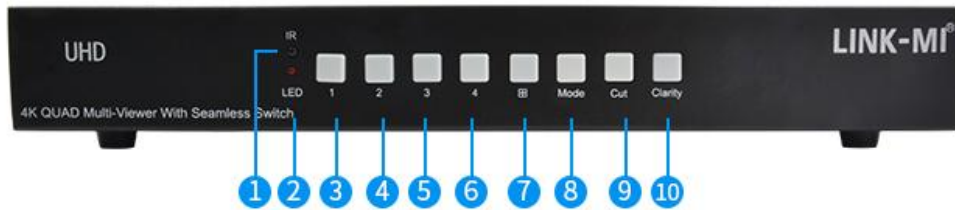
### 3. Specification

Name	Specification
<b>Input</b>	
Input Ports	4x HDMI (built in audio), 4x USB
Input Resolution	Max 3840*2160@30Hz, backward compatible
Color Depth	24bit, 16.77 million colors
POP, PIP Mode	Fixed position
<b>Output</b>	
Output Ports	1x HDMI (built in audio) 2x USB connected to mouse, keyboard or other devices
Output Resolution	3840*2160@30Hz, 2560*1440@60Hz, 1920*1080@60Hz, 1280*720@60Hz are optional
Color Depth	24bit, 16.77 million colors
<b>Other</b>	
Control Way	Chassis buttons, infrared remote control, keyboard hotkeys, RS232 serial port software control, and centralized control
Electrical Characteristics	Input Voltage: 12V
Power Consumption	Max 3W
Product Dimensions	302mm (L) x 152mm (W) x 40mm (H)
Product Weight	1.1KG
Package Dimensions	400mm (L) x 250mm (W) x 95mm (H)
Package Weight	2.2KG

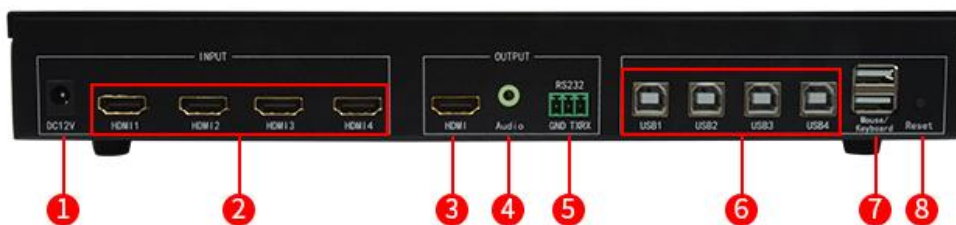
### 4. Package Contents

- 1) 1x HDMI Multi Viewer
- 2) 1x Remote Control
- 3) 4x USB Cable
- 4) 1x Power Adapter
- 5) 2x Mounting Ears

## 5. Panel & Interfaces

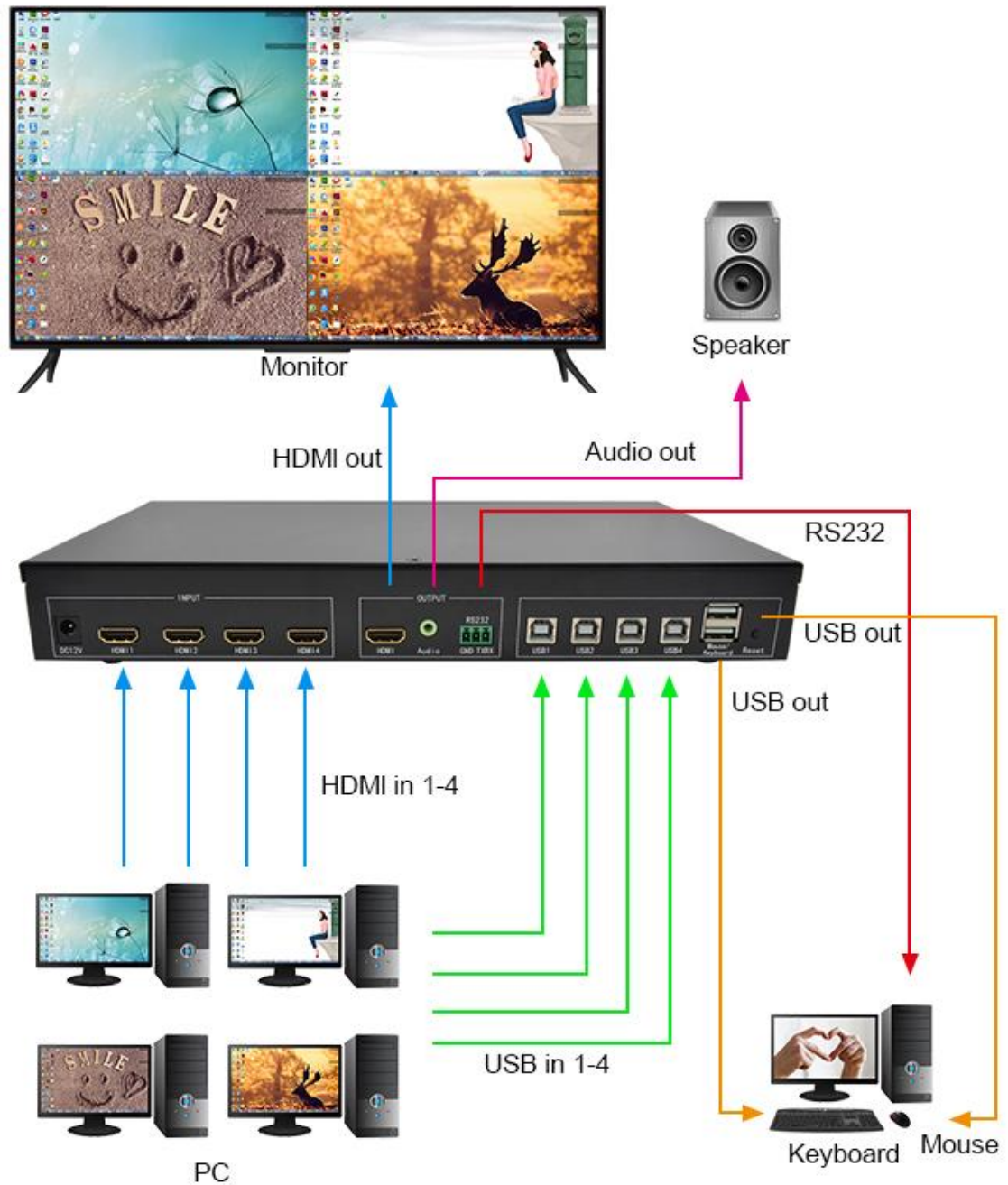


- 1 IR LED light
- 2 Power LED light
- 3 Key 1: The first screen full-screen display, USB mouse, keyboard Salvo to the first mainframe computer
- 4 Key 2: The second screen full-screen display, USB mouse, keyboard Salvo to the second host computer
- 5 Key 3: The third screen full screen display, USB mouse, keyboard Salvo to the third mainframe computer
- 6 Key 4: The fourth screen full-screen display, USB mouse, keyboard Salvo to the fourth mainframe computer
- 7 4X1 Multi View Mode
- 8 Mode: Mode switch key
- 9 Cut
- 10 Clarity



- 1 Power input port
- 2 HDMI 1-4 input port
- 3 HDMI output port
- 4 Audio output port
- 5 RS232 port
- 6 USB 1-4 input port
- 7 Mouse/Keyboard output port
- 8 Reset Button

## 6. Connection Diagram



## 7. Detailed Introduction

### 1. Multi Viewer Function

It supports displaying 4 signals simultaneously on the same display unit and allows for functions such as switching one signal to full-screen display,

dual-screen split display, and fixed mode PIP display, as shown in the diagram below:



4分割显示



单画面全屏



POP左、右分割



POP上、下分割



PIP左上角



PIP右上角



PIP左下角



PIP右下角



PIP居中



纵向三画面16:9



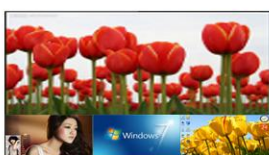
三分割



纵向两等分



纵向两画面16:9



横向三画面16:9

## 2. Seamless Switching Function

The device is equipped with seamless switching capability, allowing for fast and smooth transitions between different screens, meeting the customers' switching requirements.

## 3. Support 3840\*2160 Ultra high definition signal input and output

The device supports 4 channels of HDMI signal input. It can handle both interlaced and progressive input for high-definition videos. The product can accept ultra-high-resolution signals up to 3840\*2160@30Hz, with backward compatibility. All input signals are processed by a professional-grade image processing chip, and a unified output of progressive 60Hz HDMI signal is provided. The maximum output resolution is 3840\*2160@30Hz, and users can also choose other resolutions according to their needs, such as 1920\*1080,



1280\*720, and 2560\*1440.

#### 4. Support non-deformed dual-screen split display and point-to-point display

In the conventional dual-screen multi viewer, when in dual-split display mode, the aspect ratio of the images may be compromised due to the unchanged height or width, resulting in compressed and distorted images. However, this product can maintain non-deformed display by sacrificing a portion of the image, making it ideal for applications in microscopy or the medical field.



Normal Mode



Screenshot non-deformation mode



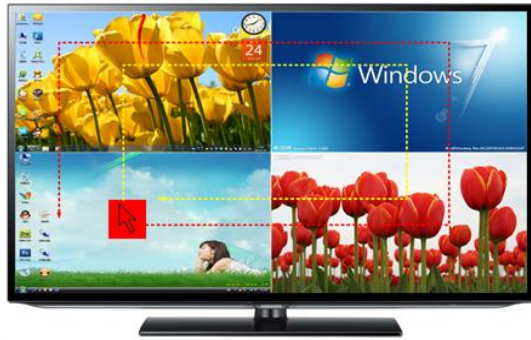
#### 5. KVM Switch Function

This product allows almost full control of the splitter using a single set of mouse and keyboard. With keyboard hotkeys, users can switch a specific signal to single-screen display, four-screen display, toggle audio independently, and enable mouse traversal in the four-screen mode. Such functionality makes it ideal for various video conferencing systems and similar environments, offering users convenience, efficiency, saving on display devices, and optimizing operational space.

#### 6. Mouse traversal function

Support screen traversal function. In the four-split mode, moving the mouse to the edge of the screen allows for seamless transition to another computer, with the keyboard synchronously switching to the same computer without the need for separate keyboard hotkeys. This feature is widely applicable in areas such as healthcare, education, and stock trading, where real-time operations across multiple windows are

required.



Normal clockwise or counterclockwise crossing



Normal clockwise or counterclockwise crossing

## 7. Switch function of Video and Audio

In addition to displaying video signals, the device also supports synchronous switching of audio and images. In the four-split mode, it is possible to select the corresponding audio playback for a specific screen. This fills the gap where previous high-definition splitter could not achieve audio functionality, providing a more comprehensive multimedia experience.

## 8. Control Ways

Support chassis buttons, infrared remote control, keyboard hotkeys, RS232 serial port software control, and centralized control functions.



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