HDMI KVM MULTI-VIEWER

HDMI KVM Multi-Viewer 16X1 (1080P)

Where every Moment comes Alive

ER2808MVKVM

Introduction

The EiRA HDMI KVM Multi-Viewer 16X1 (1080P) is a high-performance device designed for seamless multi-screen monitoring and switching. It supports 16 HD digital video inputs, allowing users to display all signals on a single screen with various segmentation options. With seamless switching and synchronous output, this multi-viewer ensures smooth and uninterrupted transitions between video sources. It offers flexible control methods, including button operation and IR remote control, making it user-friendly and convenient. Easy to install and highly stable, this multi-viewer is ideal for major projects, meeting halls, surveillance centers, and other professional applications requiring efficient video management.
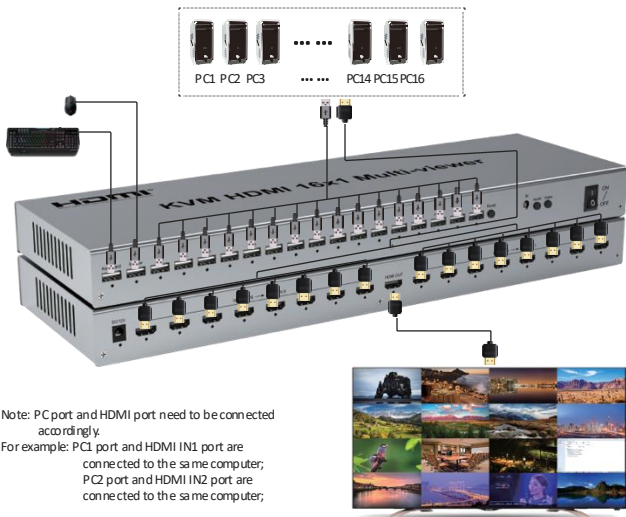
Features

- **16 HDMI Inputs, 1 HDMI Output:** Allows seamless integration of multiple video sources onto a single display.
- **Multi-Screen Segmentation:** Supports 16 HDMI signal screen segmentation for efficient monitoring.
- **Seamless Switching:** Enables smooth and uninterrupted switching between 16 HDMI input signals.
- **KVM Functionality:** Supports control of up to 16 PCs using a single keyboard and mouse.
- **IR Remote Control:** Offers convenient remote operation for easy switching and control.

Specification	Details
HDMI Input Resolution	1080P, 720P, 1024x768, 1360x768, etc.
HDMI Output Resolution	1080P @ 60Hz
Input & Output Cable Distance	≤10M (AWG26 HDMI standard cable)
Max Working Current	1.3A
Power Adapter Format	Input: AC (50Hz, 60Hz) 100V-240V | Output: DC12V/2A
Operating Temperature Range	-15℃ to +55℃
Dimension (L × W × H)	460 × 150 × 40 mm
Weight	1744g

The Remote Control

1080P — HD MI output resolution 1080P;

Output resolution switch;

Horizontal dual image display mode ;

Vertical dual image display mode;

4 big -12 small display mode;

2 big -6 small display mode;

Audio switching;   Display mode switching;

16 Image display mode;

Left & right switching input port

1 --- 16   Single image choosing signal input port

2×2 mode :
A4: Choosing 1-4 input port signal;   B4:
Choosing 5-8 input port signal;   C4:
Choosing 9-12 input port signal;   D4:
Choosing 13-16 input port signal;

2x4 mode :
A8：Choosing 1-8 input port signal;
B8：Choosing 9-16 input port signal;

2x4 mode : （Non-deformation）
A8：Choosing 1-8 input port signal;
B8：Choosing 9-16 input port signal;

Function Interface Figure1

1: DC/12V --- DC/12V power interface
2: HDMI IN16 --- HDMI IN1 --- Input interface
3: HDMI OUT --- Output interface
4: Keyboard/Mouse --- Keyboard/Mouse port
5: PC1-PC16 --- Connect the USB port on the PC

6: Reset --- USB restore synchronization mode
7: IR --- IR receive
8: Audio --- Audio mode switching
9: Video --- Video mode switching
10: ON/OFF --- Power switch

Connection diagram :

PC1 PC2 PC3 ... ... PC14 PC15 PC16

Note: PC port and HDMI port need to be connected
accordingly.
For example: PC1 port and HDMI IN1 port are
connected to the same computer;
PC2 port and HDMI IN2 port are
connected to the same computer;

Operating steps:

1: Connecting HD signal source and the input port of the multi-viewer through 16 HDMI
cables.
2: Connecting the display terminal and the output port of the multi-viewer through an HDMI
cable.
3: Connect PC1-PC16 ports on the multi-viewer and signal source (such as USB port on

the computer) with 16 USB cable.

4: Connect to Keyboard/Mouse ports on the multi-viewer with USB mouse and keyboard.

5: Connect power supply to the HDMI multi-viewer.

KVM (mouse and keyboard) connection operation:

1.1 Connecting the PCs:

• Use 16 USB 2.0 cables to connect the **PC1-PC16** ports on the multi-viewer to the USB ports of the corresponding computers (signal sources).

1.2 Connecting the Keyboard and Mouse:

• Connect a USB keyboard and mouse to the designated **Keyboard/Mouse** ports on the multi-viewer.

2.1 KVM Synchronization Mode:

• Press '*'+'0' to enter synchronization mode.

• When activated, all 16 LEDs on the **PC1-PC16** ports will light up, indicating that the keyboard and mouse can simultaneously control all connected PCs.

• To exit synchronization mode, press '*'+'0' again or switch to another mode.

2.2 KVM Function Switching:

PC1: click '*'+'1'	PC2: click '*'+'2'
PC3: Click '*'+'3'	PC4: Click '*'+'4'
PC5: click '*'+'5'	PC6: click '*'+'6'
PC7: Click '*'+'7'	PC8: Click '*'+'8'
PC9: click '*'+'9'	PC10: click '*'+'1'+'0'
PC11: click '*'+'1'+'1'	PC12: click '*'+'1'+'2'
PC13: click '*'+'1'+'3'	PC14: click '*'+'1'+'4'
PC15: click '*'+'1'+'5'	PC16: click '*'+'1'+'6'

2.3: Mouse through mode:

Click '*' + 'S' mouse to enter the horizontal through,

then click '*' + 'F8' to arbitrarily move the mouse through PC1-PC16

Note: The Keyboard/Mouse port is connected to the mouse and keyboard. When the LED of that PC port is on, it is switched to the corresponding PC. It takes a certain amount of time (usually a few seconds, depending on the operating system) when each PC port is connected to the signal source for the first time, and the control can be quickly switched after connection.

'*'+'F9' : Mouse absolute coordinate mode (PC);

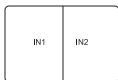'*'+ 'F10': Mouse Relative Coordinate Mode (NVR; Can display the Android system mouse);

'*' + 'F 11': Software reset, USB restore synchronization mode;

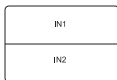Note: If the mouse through function cannot be used, Please confirm that it is mouse absolute coordinate mode (* + F9).

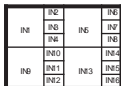## Common multi-viewer mode:

MODE1   MODE2   MODE3   MODE4   MODE5

MODE6   MODE7   MODE8   MODE9   MODE10

MODE1 : Single image display mode（Channel 1-16 seamless switch）;

MODE2&MODE3 : Dual image display mode ;　　　　　　MODE4 : Quad　　display　　mode ;

MODE5 : 2 big -6 small display mode ;　　　　　　　　MODE6 : 8　Image　display　mode ;

MODE7 : 8 Image display mode （Non-deformation）;

MODE8 : 4 big -12 small display mode ;　　　　　　　MODE9 : 16 Image　display　mode ;

MODE10: 6 Image display mode（HDMI In1-3，HDMI In5-7 / HDMI In9-11，HDMI In13-15）;

Application :

Game

Security monitoring

Pub

Package include :

1. HDMI 16x1 multi-viewer   1PC   3. A type USB extension cable   16PCS
2. 12V/2A power adapter   1PC   4. Remote control   1PC
                                       5. User manual   1PC