A Step Ahead

User Manual

HDMI KVM MULTI-VIEWER

HDMI KVM Multi-Viewer 8X1 (4K30Hz)

Where every Moment comes Alive

ER2804MVKVM

HIGH-DEFINITION MULTIMEDIA INTERFACE

Introduction

The KVM HDMI 8x1 Multi-viewer is a sophisticated solution designed for high-performance display management. With the capability to seamlessly integrate and switch between up to 8 HD digital video signals, it offers versatile video segmentation and a unified output on a single screen. Ideal for diverse applications including major projects and conference halls, this multi-viewer combines practicality with stability, ensuring easy installation and reliable operation. It stands out as an essential tool for enhancing visual presentations and collaborative environments where simultaneous display of multiple sources is crucial.

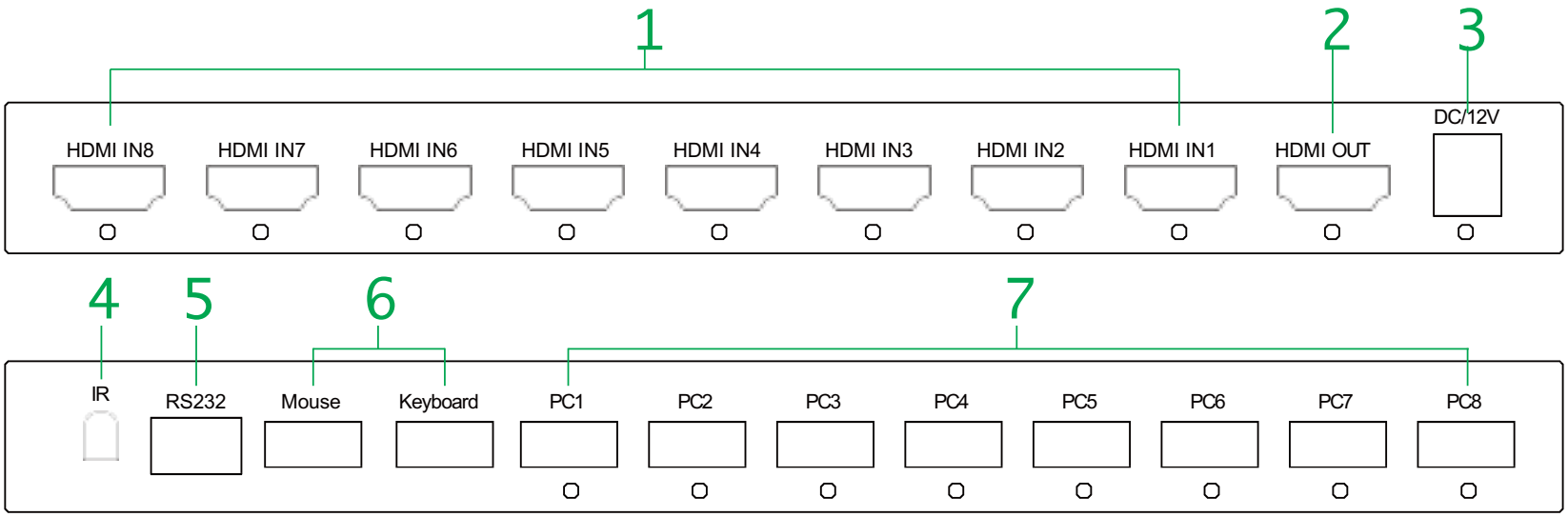
Features:

- 8 HDMI inputs and 1 HDMI output.
- Supports dividing the screen into 8 channels to display multiple HDMI signals simultaneously.
- Supports various resolutions including 4K@30Hz, 1080P, 720P, 1024x768, 1360x768, and others.
- IR control for easy operation
- Supports using one mouse and keyboard to control up to 8 PC hosts.
- USB support for Windows, Linux, macOS, and Android operating systems.
- Supports USB 1.1 at low speed (1.5Mb/s) and full speed (12Mb/s).
- RS232 control for advanced management and integration.

Specifications:

- **Input Resolution**: Supports up to 4K resolution at 30Hz.
- **Output Resolution**: Supports output resolutions of 1080P, 2560x1440, 2560x1600, and 4K at 30Hz.
- **Audio Format**: Supports PCM audio format.
- **Cable Distance**: For 4K resolution at 30Hz, supports HDMI standard cables up to 10 meters (AWG26).
- **Bandwidth**: Maximum bandwidth supported is 340MHz.
- **Baud Rate**: Maximum baud rate is 3.4x3Gbps.
- **Power Requirements**: Input AC (50Hz, 60Hz) 100V-240V; Output DC12V/1A
- **Maximum working current**: 500mA.
- **Operating Temperature Range**: -15℃ to +55℃.
- **Dimensions:** 226x103x25 mm (L x W x H).
- **Weight:** 533g.

Function interface figure:



1: HDMI IN8 → IN1 --- Input interface
2: HDMI OUT --- Output interface
3: DC/12V --- DC/12V power interface
4: IR --- IR receive
5: RS232 --- RS232 interface
6: Keyboard/Mouse --- Keyboard/Mouse port
7: PC1-PC8 --- Connect the USB port on the PC

Operating steps:

1. **Connect HD Signal Sources**: Use 8 HDMI cables to connect each HD signal source (such as computers, cameras, or other HDMI devices) to the 8 HDMI input ports (HDMI IN1 to HDMI IN8) on the multi-viewer.
2. **Connect Display Terminal**: Use one HDMI cable to connect the HDMI output port (HDMI OUT) of the multi-viewer to your display terminal (such as a monitor or projector).
3. **Connect USB Devices**: Use 8 USB cables to connect each PC port (PC1 to PC8) on the multi-viewer to the corresponding USB ports on your computers or devices that you want to control. These USB ports are typically used for keyboard and mouse connectivity.
4. **Connect Keyboard and Mouse**: Connect your USB keyboard and mouse to the Keyboard/Mouse ports on the multi-viewer. This allows you to control all connected PCs using a single keyboard and mouse setup.
5. **Power Supply**: Connect the power adapter to the power input port on the multi-viewer. Ensure the power adapter is plugged into a power outlet with the specified voltage (AC 100V-240V).

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;

KVM (Mouse and Keyboard) Connection Operation:

1.1: Connect PC1-PC8 ports on the multi-viewer and signal source (such as USB port on the computer) with 8 USB 2.0 cable.

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

2.1: KVM synchronization function mode, click'*'+'0' to enter the synchronization mode, and the 8 LEDs on the 'PC1-PC8' port will all light up, then the mouse and keyboard can control the PC on the 8 ports at the same time (Such as a computer); if you want to exit the synchronization function, click '*'+'0' or enter other switching modes to exit.

2.2: KVM function switch:

PC1: Click '*'+'F1'
PC2: Click '*'+'F2'
PC3: Click '*'+'F3'
PC4: Click '*'+'F4'
PC5: Click '*'+'F5'
PC6: Click '*'+'F6'
PC7: Click '*'+'F7'
PC8: Click '*'+'F8'

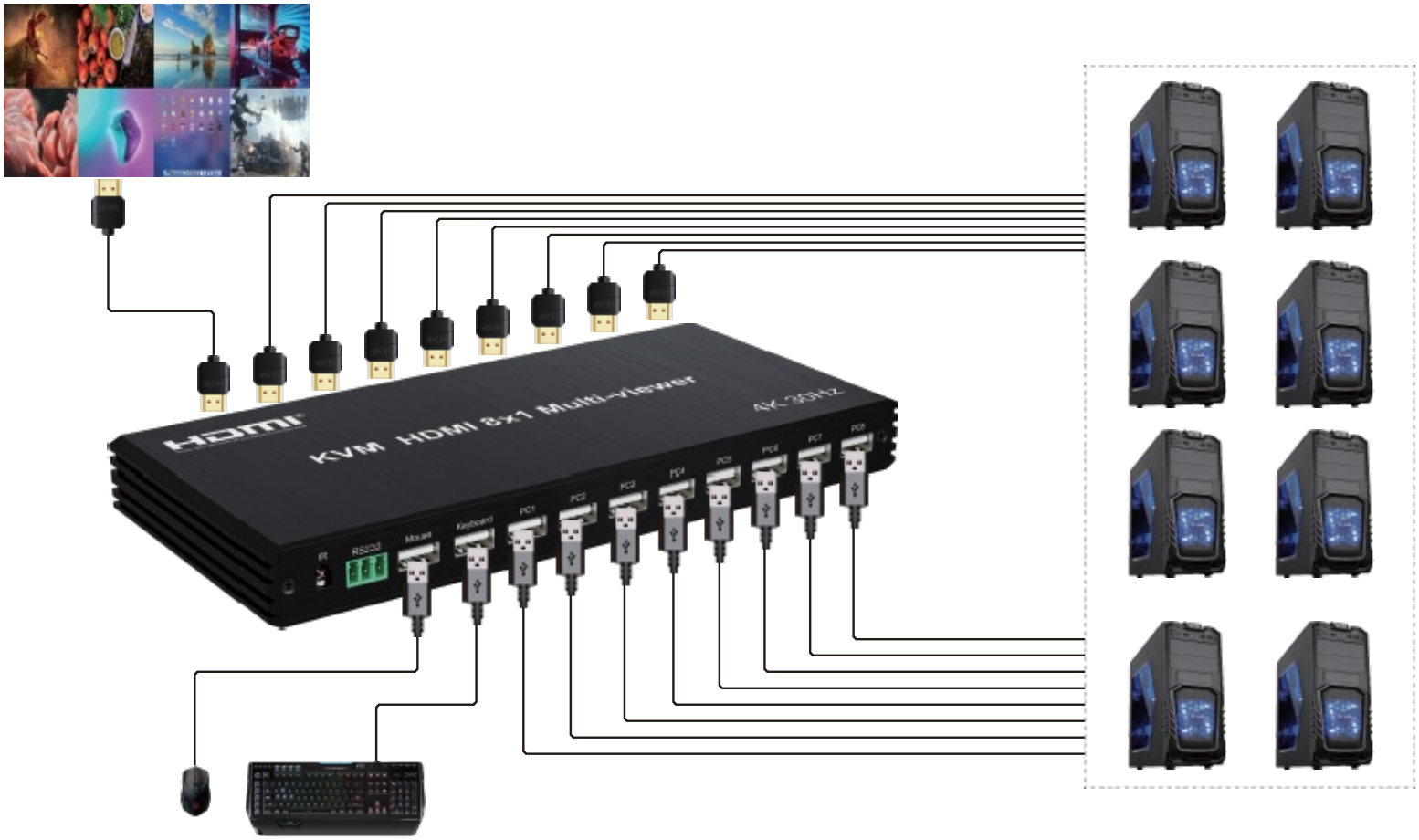
2.3: Mouse through mode: Click '*' + 'S' to enter the mouse through mode.

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.

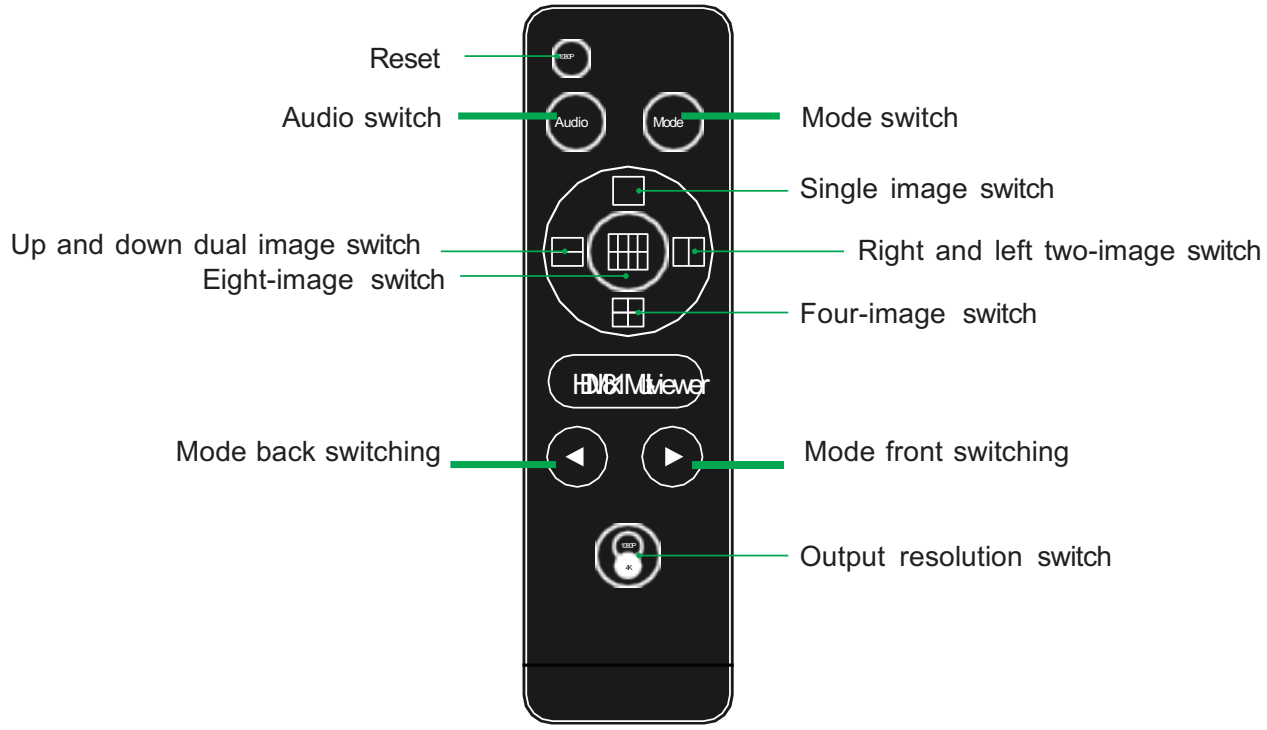
'*' +'F9' : Mouse absolute coordinate mode (PC);
'*'+ 'F10': Mouse Relative Coordinate Mode (NVR; Can display the Android system mouse);
'*'+ 'F 11': Software reset (USB in the first port /1080P/ 8 image mode);

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

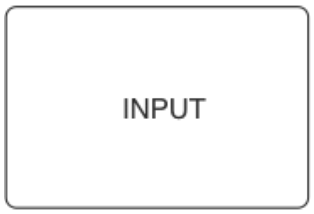
Connection diagram :



The Remote Control:

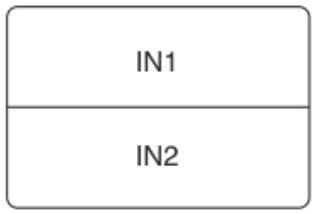


Common multi-viewer modes:

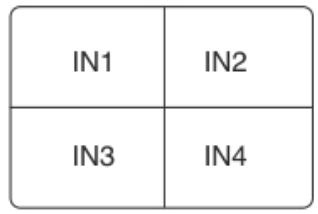


MODE1

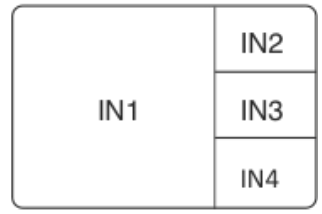
MODE2



MODE3

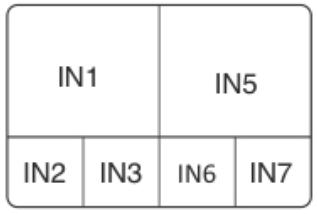


MODE4

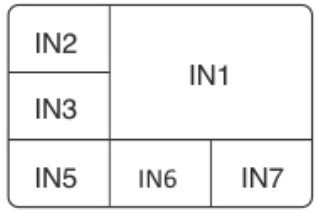


MODE5

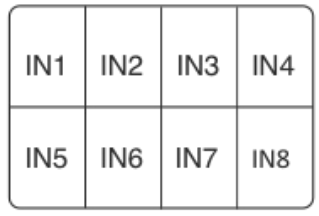
MODE6



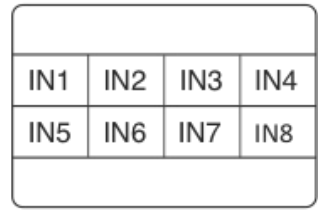
MODE7



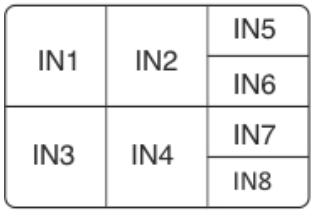
MODE8



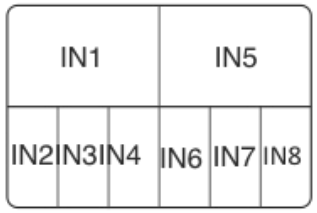
MODE9



MODE10

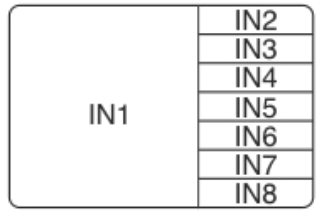


MODE11

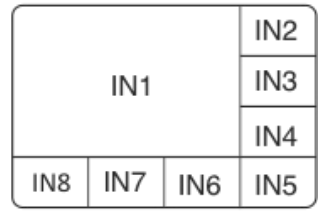


MODE12

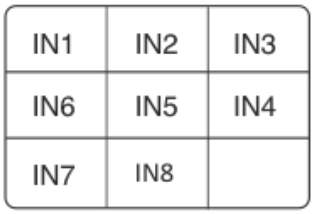
MODE13



MODE14



MODE15



MODE16

MODE1: Single image display mode (Channel 1-8 seamless switch)
MODE2 - MODE3: Dual image display mode;
MODE4 - MODE5: Quad display mode;
MODE6 - MODE8: 6 image display mode;
MODE9 - MODE16: 8 image display mode;

Keyboard Shortcut:

'*'+'1'--- MODE1; '*'+'2'--- MODE2; '*'+'3'--- MODE5; '*'+'4'--- MODE4; '*'+'5'--- MODE8;
'*'+'6'--- MODE6; '*'+'7'--- MODE15; '*'+'8'--- MODE9; '*'+'9'--- MODE16;
'*'+'←'--- Switch to the previous small mode. For example: if the current 4 image display mode, then switch to the previous 4 image display mode.
'*'+'→'--- Switch to the next small mode. For example: if the current 2 image display mode, then switch to the next 2 image display mode.

Package include :

1. KVM HDMI 8x1 multi-viewer 1PC
2. 12V/1A power adapter 1PC
3. A type USB extension cable 8PCS
4. Remote control 1PC
5. User manual 1PC
6: RS232 cable 1PC