



# **HDMI 16x1 Multi-Viewer With Seamless Switcher**

Model: iSwitch 1601

## **Operation Manual**

**VER:1.1**

## I. Introduction

This product is a high performance 16 by 1 Multi-Viewer with seamless switcher. It supports sixteen High definition input source display on one screen. As a switcher, it can also seamlessly switch the sixteen HD input freely. The product can be controlled by various ways, through the front panel button control, IR control, RS232 control etc.

## II. Features

- Compliant with HDMI 1.3a,HDCP 1.2;
- Supports multiplexed HDMI 16-input and 1-output;
- Supports up to 1080p High Definition resolution;
- Support 16by1 Quad Multi-viewer and seamless switch;
- Support scaler up, scaler down function;
- Support multi output resolution;
- Support digital audio format LPCM/AC3/DTS
- Support button, IR Remote,RS232 etc various controlled ways;

## III. Package Contents

1. HDMI 16x1 Multi-Viewer ----- 1PC
2. 12V/5A DC power adaptor ----- 1PC
3. RS232 Cable ----- 1PC
4. Operation Manual ----- 1PC
5. Mounting ears ----- 2PCS

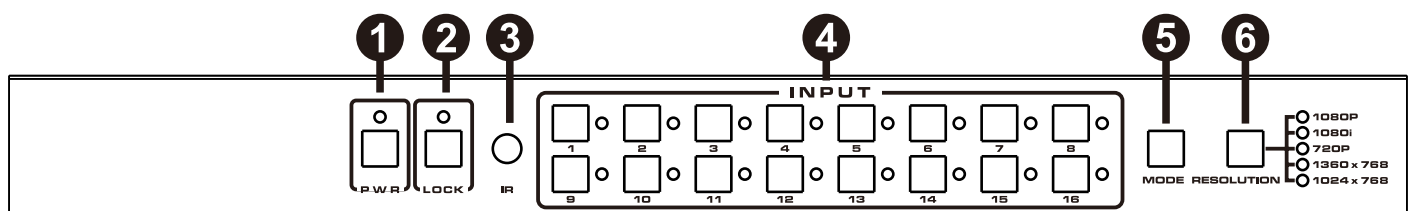
## IV. Package Contents

<b>Video Bandwidth</b>	2.25Gbps
<b>Input Ports</b>	16 × HDMI (Female type),1x RS232;
<b>Output Ports</b>	1 × HDMI (Female type),
<b>Audio output</b>	PCM2, 5.1, 7.1CH, Dolby 5.1, DTS5.1

<b>Input Resolution</b>	480i60Hz,480p60Hz,576i50Hz, 576p50Hz,720p50/60Hz, 1080i50/60Hz, 1080p24/30/50/60Hz, 800x600@60,1024x768@60, 1280x720@60,1920x1080@60;
<b>Output Resolution</b>	1080p,1080i,720p,1024x768, 1360x768
<b>ESD Protection</b>	Human Body model: ±8 kV (air-gap discharge) ±4 kV (contact discharge)
<b>Power Supply</b>	12 V/5A DC
<b>Dimensions</b>	440 mm (W)×200 mm (D)×45 mm (H)
<b>Weight</b>	1800 g
<b>Chassis Material</b>	Metal
<b>Silkscreen Color</b>	Black
<b>Operating Temperature</b>	0 °C~40 °C/ 32 °F~104 °F
<b>Storage Temperature</b>	-20 °C ~ 60 °C/-4 °F ~140 °F
<b>Relative Humidity</b>	20~90 % RH (non-condensing)

## V. PANEL FUNCTIONS

### Front Panel



**1. POWER:** Press this button to power the device on/off. The LED will illuminate green when the power is on, red when it is in 'Standby' mode.

**2. LOCK:** Press this button to lock all the buttons on the panel, press again to unlock. The red LED will illuminate when the button is locked, on the contrary, turn dark when unlock.

**3. IR receiver window:** Receive the IR from the remote controller.

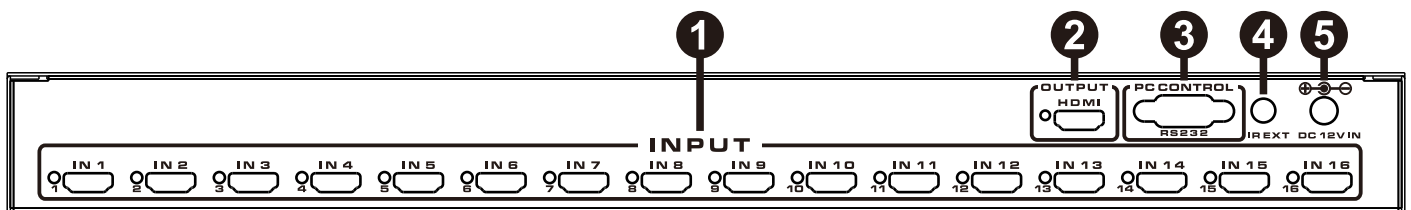
**4. HDMI input selection button area:** HDMI input selection button 1 to 16: Press to select the input from 1 to 16.

**5. MODE:** Press the button to select display mode.

**6. RESOLUTION:** Press the button to select the output resolution.

NO.	RESOLUTION
1	1080P, Main image audio
2	1080I, Main image audio
3	720P, Main image audio
4	1360x768, Main image audio
5	1024x768, Main image audio

## Rear Panel



**1. HDMI INPUT Area:** Connect HDMI sources. LED 1-16 illuminate when the HDMI signal plug in corresponding input port with HDMI cable.

**2. HDMI OUTPUT Area:** Output for displays, AVR etc. LED illuminate when the display plug in corresponding output port with HDMI cable.

**3. PC CONTROL:RS232:** Connect to a PC or control system with D-Sub 9-pin cable for the transmission of RS-232 commands.

**4. IR EXT:**IR extender receiver port, connect with IR receiver cable.

**5. DC POWER IN:** Plug the 12V/5A DC power supply into the unit and connect the adaptor to an AC outlet.

## VI. Detail description of display mode

The 16x1 multi-viewer have 2 display modes.

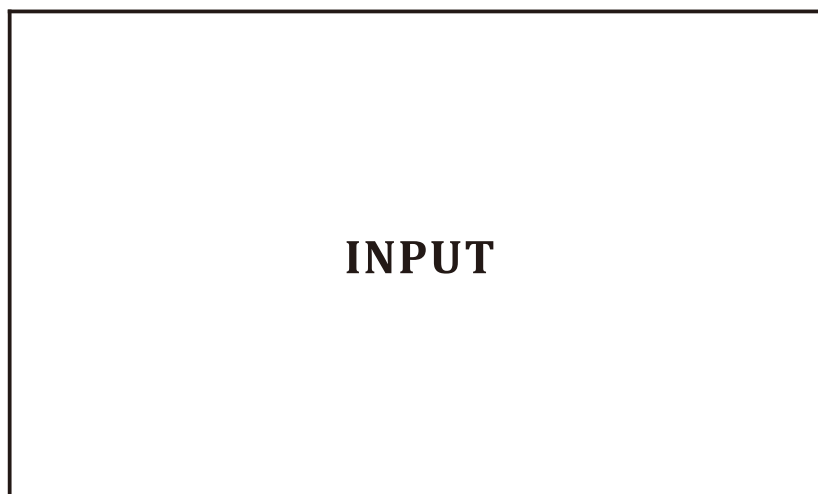
**MODE1:** The 16x1 multi-viewer divides the sixteen HD input to the same size and display on one screen. And now switch the input button on front panel or IR remote, the HDMI output audio will Corresponding to the selected input source.

**MODE2:** The 16x1 multi-viewer will separate display the sixteen HD input, and now it is a seamless switcher.

### MODE1-16X1 Multi-Viewer

IN1	IN2	IN5	IN6
IN3	IN4	IN7	IN8
IN9	IN10	IN13	IN14
IN11	IN12	IN15	IN15

### MODE1-16X1 Seamless Switcher



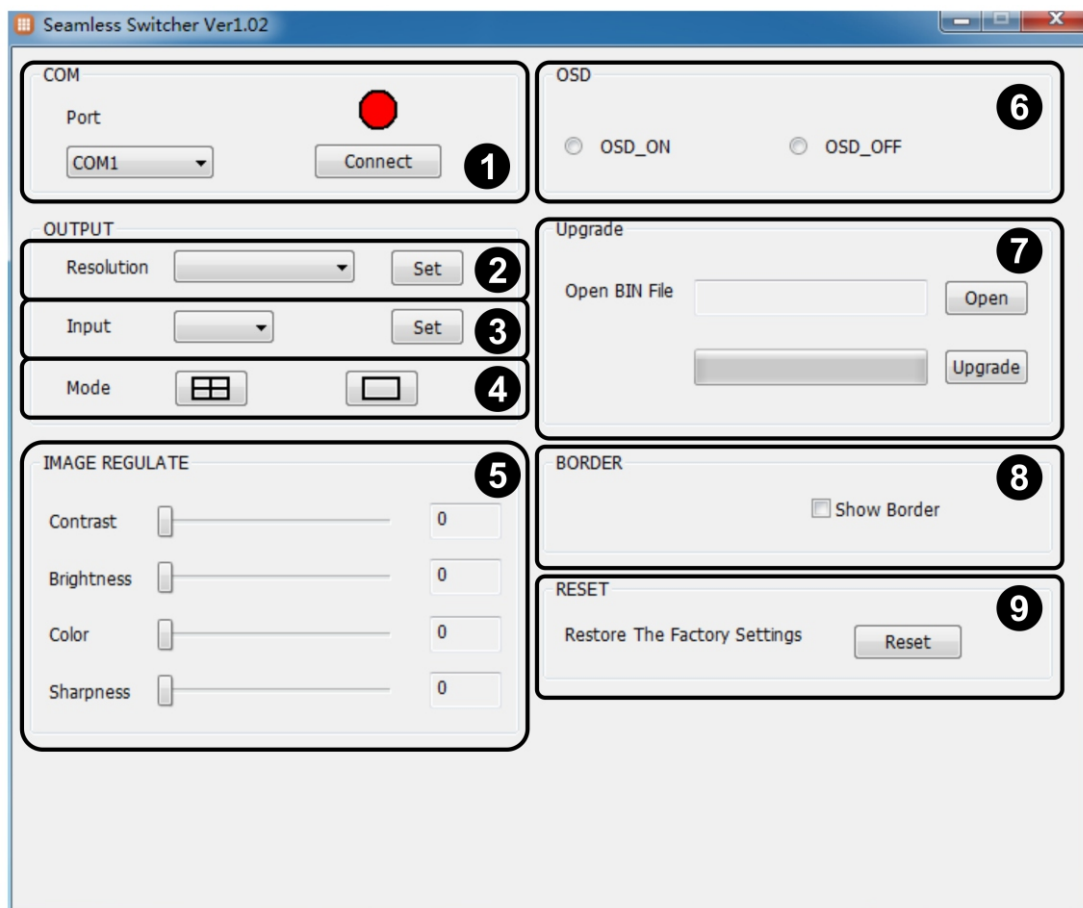
## VII. PC controller user guide

### Installation

The PC controller is green software. Just use a cable to connect the PC via RS232 port and copy “Quad Multi-Viewer.exe” to PC to complete installation.

### Preparation

1. Connect PC and multi-viewer by RS232 cable (headers of both sides of cable should be FEMALE)
2. Power-up multi-viewer
3. Double click “Quad Multi-Viewer.exe” icon to run it



1. Select PC connect COM port, Click to connect or disconnect PC and multi-viewer.
2. Select the HDMI output resolution.
3. Select the input source.
4. Select the output mode, see the detail description (chapter 6).
5. Adjust the HDMI output picture quality.

6. Display or hidden the OSD menu.
7. FW upgrade part: Click to open Firmware. The click the upgrade button, the new firmware will auto download to the multi-viewer and restart it.
8. Press the Reset button, the quad multi-viewer will reset to factory state.

## VIII. Operate and Connect

