



# USER MANUAL

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## Video switcher for live streaming

### CLR-HDMI-VS402A

*[www.clrnetworks.com](http://www.clrnetworks.com)*

Before using the product, please read this manual carefully and keep it properly.

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## Introduction :

Video switcher for live streaming, 4 HDMI input support resolution 1080P@60Hz, and support HDCP1.4 standard, support HD embedded audio or External analog audio, after mixed processing, can be embedded in the output HD signal or output from the analog port. All resolution of the input signal is automatically adapted, the output resolution is 1920X1080@60Hz, To satisfy the requirements of Radio and television program production, live production of interviews and speeches, outdoor experience events, school courseware production and other video switching needs. It can be used in live streaming and various event venues.



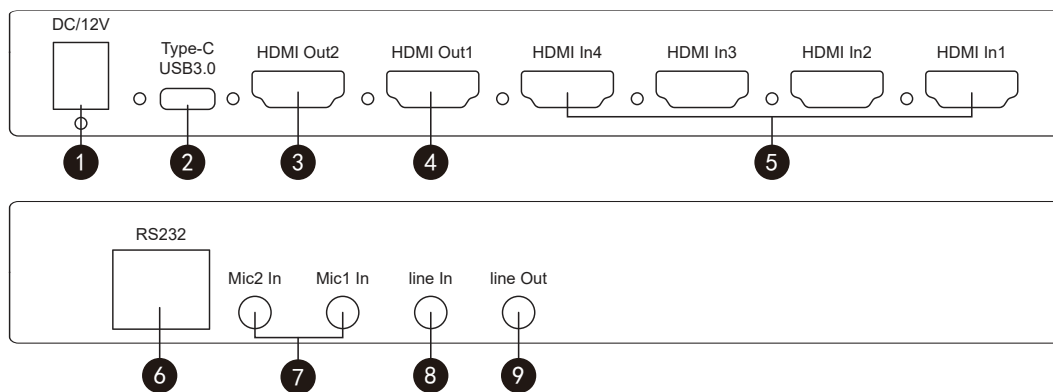
## Features :

- \* 4 HDMI input; 2 HDMI output;
- \* One Type-C 3.0 capture and push network traffic port, supports video format YUY2;
- \* Support OSD display input channel signal, resolution information, volume information;
- \* Support MIC, LINE IN, mixing output (LINE OUT fixed mixing output);
- \* Support HD audio following (fixed following PGM);
- \* Support left and right two segmentation (PGM on the left, PVW on the right);
- \* Support LINE OUT and HD audio output;
- \* Support power-off save Settings;
- \* High quality keys, color backlight design

## Specifications:

HDMI input resolution .....	1080P@60Hz
HDMI output resolution .....	1080P@60Hz
Type-C 3.0 capture and push network traffic video format .....	YUY2、JPEG
Supports audio format .....	PCM
The maximum bandwidth transmission .....	148.5MHz
Maximum transmission rate .....	1.65 x3Gbps
The input cable length .....	1080P/60Hz≤15 m AWG26 HDMI standard cable
The output cable length .....	1080P/60Hz≤15 m AWG26 HDMI standard cable
Maximum working current .....	0.7 A
Power adapter specifications .....	Input AC(50Hz,60Hz)100V-240V; Output: DC/12V 2A
Working temperature range .....	(-15℃ to +55℃)
Size .....	180x115x52(mm)
The weight .....	510g

## Physical interface diagram



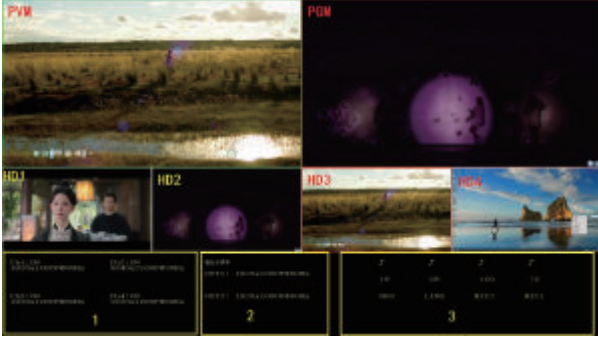
- 1: DC/12V -- power input port;
- 2: Type-c USB3.0 -- Type-C capture port, output a single image (PGM);
- 3: HDMI Out2 -- HDMI signal output port, output a single image (PGM);
- 4: HDMI Out1 -- HDMI signal output port, output 6 split images (PVW);
- 5: HDMI In4-1 -- HDMI signal input ports 4-1;
- 6: RS232 -- RS232 serial port control;
- 7: Mic2-1 In -- Microphone input port 2-1;
- 8: line In -- analog audio input port;
- 9: line Out: analog audio output port

## Panel buttons function description:



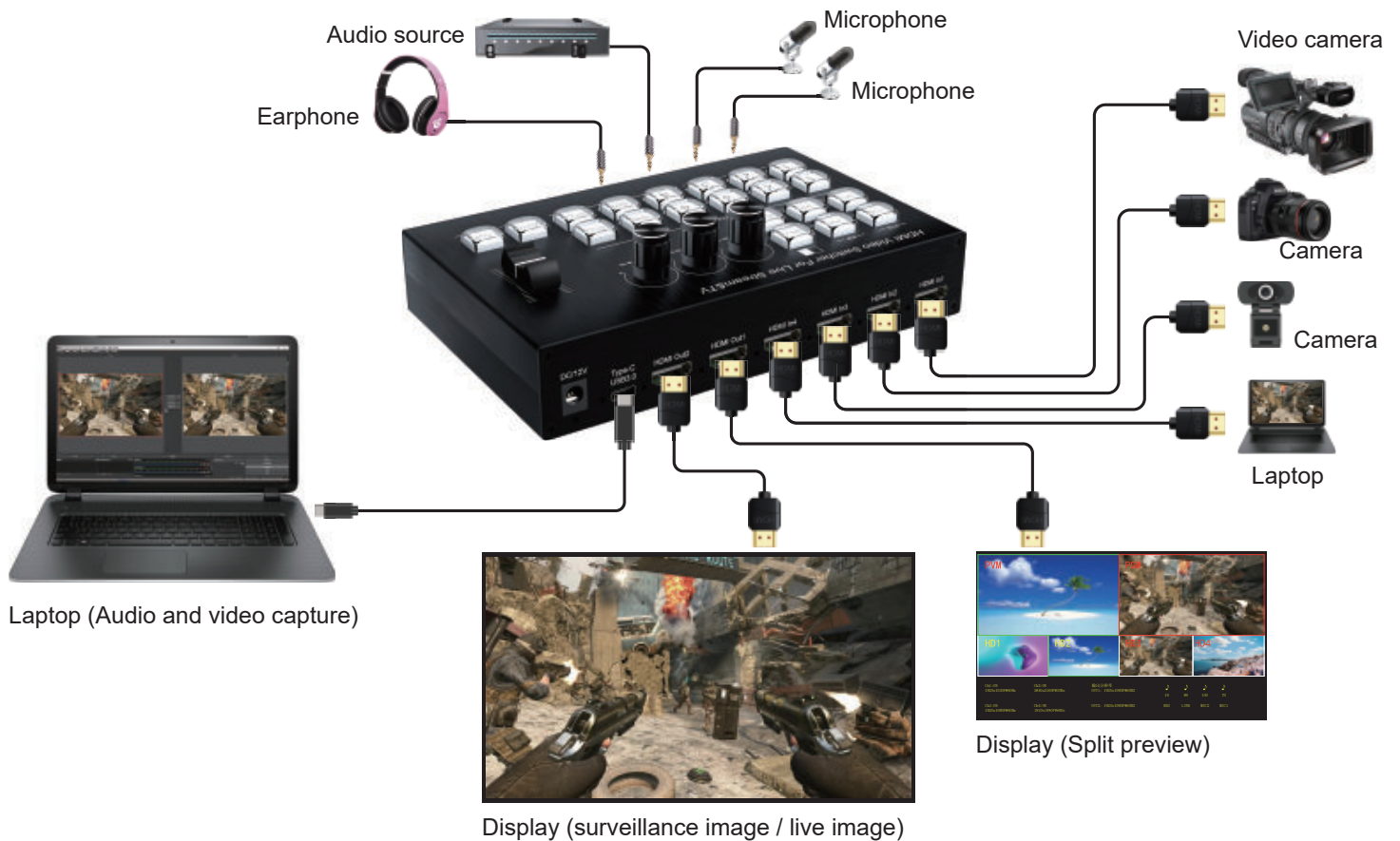
- 1: FTB -- PGM turns on or off to black screen
- 2: PIP -- Enter or exit picture-in-picture mode (PGM background, PVW small image, audio follows PGM);
- 3: SPLIT -- Left and right two segmentation (PGM on the left, PVW on the right);
- 4: AFV -- audio follows PGM image;
- 5: MIX -- Audio mix (MIC1-2/Line in/HD);
- 6: MUTE -- Turn on or off the mute;
- 7: PGM\_1 -- PGM image switched to HD1; PGM\_2 -- PGM image switched to HD2;  
PGM\_3 -- PGM image switched to HD3; PGM\_4 -- PGM image switched to HD4;  
BAR -- PGM blue image turn on or off;  
STILL -- PGM image is frozen or unfrozen;
- 8: PVW\_1 -- PVW image switched to HD1; PVW\_2 -- PVW image switched to HD2;  
PVW\_3 -- PVW image switched to HD3; PVW\_4 -- PVW image switched to HD4;  
BAR -- PVW blue image turn on or off;  
STILL -- PVW image is frozen or unfrozen;
- 9: Mic1 -- Tap MIC 1 to turn on or off the Input volume, rotate to adjust the volume.
- 10: Mic2 -- Tap MIC 2 to turn on or off the Input volume, rotate to adjust the volume.
- 11: Line In -- Tap to turn on or off analog audio input , rotate to adjust the volume;
- 12: Slider key - Fade in and out between PVW and PGM image;
- 13: Auto -- Fade in and out between PGM and PVW image;
- 14: Cut -- Quick switch between PGM and PVW image;

## OSD Description :(HDMI Out1 image)



- 1: Indicates resolution of the input channel.
- 2: Indicates the resolution of the output channel.
- 3: Indicates the channel in the mixing state and the corresponding volume of the audio

## Application diagrams :



Note: All devices need to be connected and finally connected to the power supply.

## Application scenario :



Production of programs



Teaching room



Live

## Package include :

- |   |     |
|---|-----|
| 1. Video switcher for live streaming            | 1PC |
| 2. 1M Type-c USB3.0 to USB-A 3.0 cable (10Gbps) | 1PC |
| 3. DC/12V power adapter                         | 1PC |
| 4. User manual                                  | 1PC |
| 5. OBS operation reference                      | 1PC |

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