

SD-MV-CM1602

4K60 16 x 2 Multi-viewer

SEADA

Showing the World

User Manual

VER 1.0

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Updated records

Document version	Release time	Updated Description
V1.0	13/01/2026	First official release

1. Product Overview

SD-MV-CM1602 is a 4K60 16 inputs and 2 outputs multiviewer. It can display up to sixteen video inputs onto two display devices with customised layouts at the same time. It supports seamless signal switching between different input sources, providing a high user experience to meet the application needed in different scenarios. Widely used in various fields such as security monitoring, broadcasting, video conferencing, industrial production, and instrument monitoring



2. Product Features

- Supports 8 4K60 inputs, including 4 HDMI or DP options, and 4 HDMI inputs. And 8 1080P inputs, providing HDMI interface to ensure clear images and rich details;
- Supports 4K60, 4K30, 1080P60 output, compatible with multiple display devices and resolution requirements, can be flexibly adjusted according to specific application needs and device configurations, providing more choices and adaptability
- Capable of displaying 16 input signals on a single display device, achieving multi screen display and improving work efficiency and monitoring capabilities;
- Support seamless switching of input signals for each window, without blacking out, improving user experience, optimizing viewing experience, and reducing operational interference;
- Support arbitrary segmentation layout, maximum 15×15 segmentation lines, flexible application;
- Support OSD display, check device confidence, can be turned on or off;
- Supports HDMI audio output and 3.5MM audio separation;
- Support buttons, remote control, RS232, web control, intuitive control interface and operation mode, simplify the setup process;
- Support custom modification of IP addresses and DHCP automatic allocation;
- Provide desktop small boxes and rack mounted structures for flexible installation according to different scenarios;
- Equipped with overheat protection and anti-interference design, using 18W thermal conductivity material, internal heat dissipation, ensuring long-term stable operation of the equipment, suitable for long-term use in various environments.

3. Product Specification

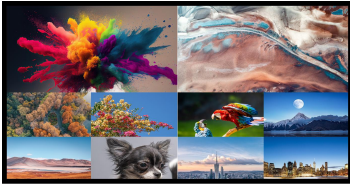
Product Name	SD-MV-CM1602
Input Interface	A IN1-4、B IN1-4: 4×HDMI 2.0、2×DP 1.2 A IN5-8、B IN5-8: 4×HDMI 1.3
Input Maximum Pixel Clock Frequency	600MHz
Input Resolution	A IN1-4、B IN1-4: 3840×2160P60 A IN5-8、B IN5-8: 1920×1080P60
Interface Protocol	HDCP 2.2、HDCP 1.2
Output Interface	2×HDMI 2.0
Output Maximum Pixel Clock Frequency	600MHz
Output Resolution	3840×2160P60、3840×2160P30、1920×1080P60
Color depth	8bit
Color format	RGB444、YUV444、YUV422
Audio	HDMI Audio Follow-On, 3.5mm Audio Separation
Control Method	Remote Control, Pushbutton, RS232、Web
Power Supply	12V5A
Power Consumption	50W
Storage/Operating Temperature	-10~ 50°C/0~ 50°C
Product Size	L×W×H: 440mm×200mm×60mm
Product weight	4KG
Package Size	L×W×H: 570mm×340mm×140mm
Package Weight	5.7KG
Accessory List	1×12V5A power adapter, 1×CAT5E network cable 1 meter, 1×Phoenix terminal, 1×remote control, 1×IR
Warranty	2-year

4. Major Function

4.1. Segmentation



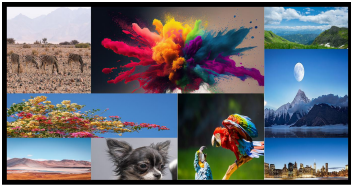
13 Screens



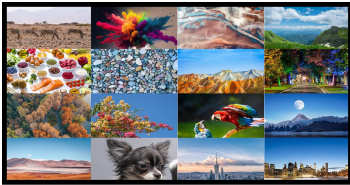
10 Screens



9 Screens



9 Screens



16 Screens



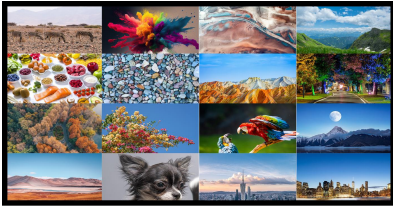
Single screen display

Note: This primarily demonstrates common screen layouts, which can be freely arranged based on the 15×15 grid lines.

4.2. Seamless switching



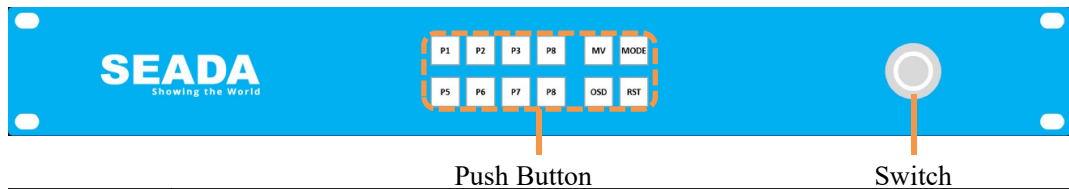
Seamless input source switching



Seamless switching between different modes

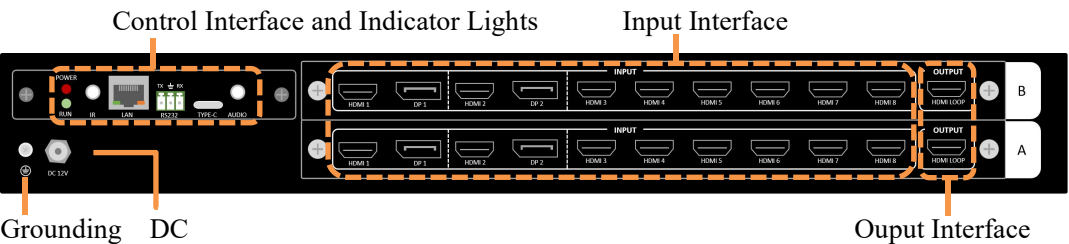
5. Appearance

5.1. Front Panel



Instruction	Function
Push Button	P1-P8: Preset scenes stored in memory, instantly recalled with a single button press MV: Fixed split-screen window cycle MODE: Split-screen mode cycle OSD: OSD on/off switch RST: Reset
Switch	The white ring light stays on when connected to power. Press the switch.

5.2. Rear panel



Note: Product images are for reference only. Actual product may vary.

Instruction	Function
Grounding	Connect the grounding system with a wire
DC	12V 5A power adapter with threaded connection, anti-disengagement
Control Interface and Indicator Lights	POWER: Red steady light indicates device is powered on; red steady off indicates device is powered off RUN: Green steady light indicates software is active; green steady off indicates no software is being written IR: 3.5mm jack for connecting IR extension cable LAN: RJ45 jack for connecting to computer or router RS232: Serial port TYPE-C: For firmware updates AUDIO: 3.5mm jack for audio separation interface
Input Interface	16 input channels, sequentially assigned to HDMI ports 1-8 on Card B. HDMI port 8 on Card B corresponds to input channels 9-16.
Output Interface	2 output channels for simultaneous display, with priority given to HDMI output from Card B.

6. Remote Control Description

Keystrokes	Description
	One click restore default settings: output resolution: 1920×1080P60, segmentation mode: 4×4 segmentation, input source one-to-one correspondence window
	Output resolution 3840×2160P60、3840×2160P30、1920×1080P60 switching
	Power on state press to enter standby mode, standby state press to wake up
	Single screen
	Dual screen left and right
	Sixteen screens
	Four-screen large and three small
	4-screen field grid
	Six-screen large and five-small
	Eight frames
	Eight-screen nine-panel grid
	Eight screens, one large and seven small
WIN-	Select Previous Window
WIN+	Select Next Window
IN-	Select Previous Input Source
IN+	Select the next input source
	Output audio switching, in order IN1→IN16→Unmute→IN1
	One key mute/Unmute
OSD	OSD on/off

7. OSD Description

OSD	Description
W1	Window number, window 1
I1	Input source number, input source 1
192.168.1.192	The IP address of the device
♪1	Audio, audio from input source 1

8. Command Lines

Serial port command: (baud rate: 115200, data bits: 8 bits, stop bits: 1 bit, no parity bit)

TCP/IP, UDP: port 23, Hex

Function	Command	Clarification
Single Screen	660001116F	
Dual Screen (Left/Right)	660001216F	
Dual Screen (Top/Bottom)	660001226F	
Quad Screen (1 Large, 3 Small)	660001416F	
Quad Screen (Tianzi Grid)	660001426F	
Hex Screen (1 Large, 5 Small)	660001616F	
Oct Screen	660001836F	
Oct Screen (1 Large, 7 Small)	660001816F	
Oct Screen (Nine Palace Grid)	660001826F	
Sixteen Screen (Palace Grid)	660001F16F	
Sixteen Screen (1 Large, 3 Small x4)	660001F26F	
Input Source Switch	660101xy6F	x represents the selected window to switch between (0-F), and y represents the input source to switch to (0-F). For example: To switch window 2 (WIN2) to input source 5 (IN5), the command is 660101146F.
Mute Mode	660201006F	
Audio Input Source Selection n	660201xy6F	xy indicates the input source audio to be switched. Mute: 00 IN1-IN15: 01-0F IN16: 10
Output Resolution 3840×2160P60	662401046F	
Output Resolution 3840×2160P30	662401036F	
Output Resolution 1920×1080P60	662401006F	
Recall Preset Layouts	662002020A6F	A:0-7 for 8 preset layouts. example: To call 2nd preset layout, the command is 66200201016F
Standby Mode	660501006F	
Operating Mode	660501016F	
Turn Off OSD Display	660601006F	
Turn On OSD Display	660601016F	

9. Web GUI

9.1. Connect

- The product defaults to TCP protocol, with a default IP address of 192.168.1.192 and port number of 5000. The IP address of the product can also be viewed through OSD;
- Connect the product to the local computer using an Ethernet cable, and set the IP address of the local computer to 192.168.1.xxx (xxx should not be 192);
- Open the browser and enter the product IP address 192.168.1.192, or enter 1602MV/(only valid for Windows systems) to enter the web.
- Note: When enabling DHCP, ensure the Ethernet cable is connected before powering on the device. If the cable is connected after powering on, the device must be restarted. When DHCP is active and the device is directly connected to a computer, its IP address is 192.168.1.192.

9.2. log on

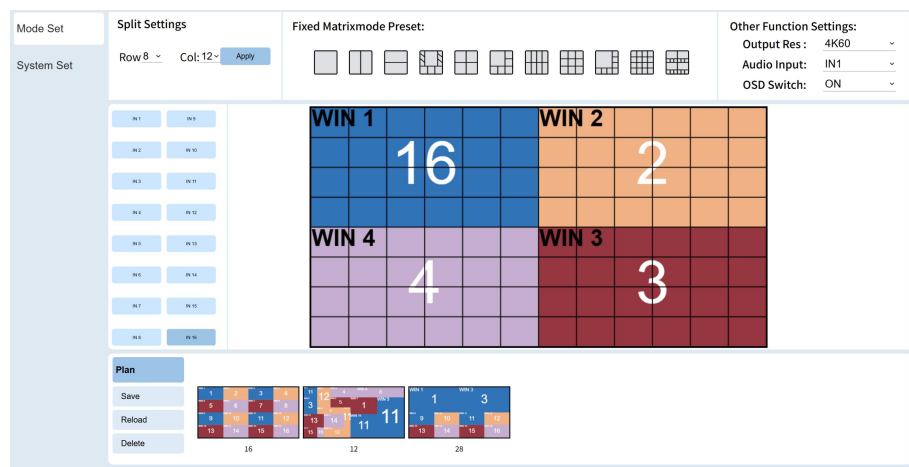
Username

Password

Log in

- Login password is admin.

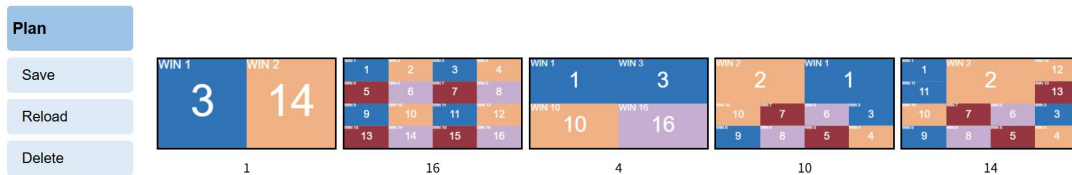
9.3. Mode setting



- Split Settings: Horizontal maximum 15, vertical maximum 15, can be segmented arbitrarily based on 15×15 ;
- Fixed Matrix Mode Preset: 10 types, one click direct access;
- Output Res: 1920×1080 P60, 3840×2160 P30, 3840×2160 P60 Three options to choose from;
- Audio Input: IN1-16、 Silent, with a total of 17 options;
- OSD Switch: Turn on and off OSD;

- IN1-16: Input signal sources 1-16 with customizable names, and switch input sources by dragging to the window;
- WIN1-16: 16 window numbers;
- 1-16: Representing the input signal within the window;
- Window opening method: Long press and drag the left mouse button to merge and split the grids;
- Input Source Selection: Drag the input source into the window, or press the numeric keys 1-0 on the keyboard, or use the Alt+1-6 key combinations to cycle through input sources 1-16.

9.4. Plan



- Save: After adjusting the layout, click save and you will be prompted with the scene name. Once entered, the save will be successful, up to a maximum of 8;
- Reload: Select the scene to call, then click Call, and follow the prompts to click OK. You can also call it by double clicking on the scene;
- Delete: Delete the scene to be discarded.

9.5. System Set

Mode Set
System Set

Network Settings

Protocol Type	IP Address	Subnet Mask	Gateway	MAC Address	DHCP
TCP/IP	192.168.1.198 Edit	255.255.255.0	192.168.1.1	00:08:DC:FF:FF:FF	OFF v

Standby Settings

☒ Working
☐ Standby

Restore Settings

[Resetting](#)

- Network Settings: Configure IP address, MAC address, DHCP switch;
- Standby Settings: Standby or working;
- Restore Settings: One click restore default settings: output resolution: 1920×1080P60, segmentation mode: 4×4 segmentation, input source one-to-one correspondence window.