



CHARMING Co., Ltd.

PRODUCT USER' S MANUAL

CM 4S Product
Specifications

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Update record

Document version	Release time	Update record
V3.0	31/03/2020	First release
V3.1	19/11/2020	Updated function description and appearance changes
V3.2	19/08/2022	Add the WIFI antenna interface, remove the CVBS interface, and change the CVBS key to the MODE key.
V3.3	25/11/2020	Chassis remove handle, change the product picture

1 Product overview

Product introduction

CM4S is developed for LED display a simple operation, rich functions of pure hardware equipment, support HD multi-type interface input, set professional display control technology and powerful video processing capabilities in one, simplify the scene environment to build a video processor, the use of high-performance image processing chip; With advanced interlaced image adaptive processing technology and ultra-clear noise reduction engine to eliminate the frequency of the image motion drag and sawtooth phenomenon, video image enhancement technology to make more clear and delicate, rich in detail, full color, image quality stability.

Product features

Four gigabit network port outputs are directly connected to the receiving card, simplifying the construction of the field environment.

There is no need to debug the display through the computer, using CM4S can simply debug the display.

The USB ports on the front and rear panels support USB playback. Input channel switching is seamless. Supports cloud platform management

Application scenario

It is suitable for small and medium-sized LED display in shopping malls, hotels, exhibitions, TV studios and other application scenarios.

2 Function Description

- Support USB playback, video and picture mixed playback
- Supports full screen zoom, point-to-point display, custom zoom three zoom modes.
- Support seamless switching between multiple signal input channels or fading in and out to enhance and deliver a professional-quality presentation.
- Support quick screen connection, simple operations can complete the screen body configuration.
- The front panel's intuitive LCD display interface and clear key light prompt simplify the system's control operation.
- Eight user scenarios can be created as templates for direct invocation.
- Supports four network port output, with a maximum load of 2.5 million pixels
- Supports window position, size adjustment, and window capture functions
- Supports external independent audio input and output
- Supports custom output resolution
- User-defined EDID is supported
- Supports cloud platform management
- Audio and video synchronization switch
- Partial or full screen switch

3 Product Parameters

Basic parameter

Carrying capacity	Single network port	650,000 pixels
	Full card	2.5 million pixels
Output resolution	1, pixel point control within 2.5 million points 2, when the horizontal point exceeds 1920, the vertical point must be within 1080 3. When the vertical points exceed 1080 points, the horizontal points are controlled within 1080 points, and the common resolution of 1080×1920 60HZ has been added to the limit 4. Maximum width: 3840 Maximum: 1920 5. After the resolution level points exceed 1920 points, the point-to-point of EDID category is not supported, and only the point-to-point of interception class is supported. If you want to display the full screen, only zoom effect.	
Input resolution	Maximum support: 1920X1080@60HZ	

Hardware introduction

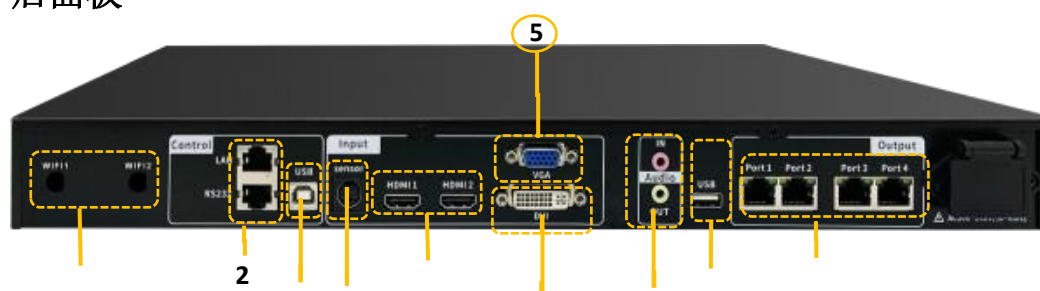
Front panel



Serial number	key	Instructions
1	Switch	Power switch
2	LCD screen	It is used to display the current status of the device and the setting menu.

3	knob	<p>1, in the main interface, press the knob to enter the menu operation interface;</p> <p>2, under the menu operation interface, rotate the knob to select the menu, press the knob to select Current menu or enter submenu;</p> <p>3. After selecting the menu with parameters, you can adjust the parameters by rotating the knob. Please note that after adjustment, you need to press the knob again for confirmation</p>
4	Esc	Return to/cancel the current menu or action
5	SCALE	Full screen zoom shortcut button
6	HDMI1、HDMI2、DVI、VGA、USB	<p>Enter the source key description:</p> <p>HDMI1: HDMI1 input source key, which is reused as when the USB flash drive is playing, to pause or play the file.</p> <p>HDMI2: HDMI2 Input source key, multiplexed as when playing the USB flash drive, select the previous file to play the current file</p> <p>DVI: DVI input source key, multiplexed as "" when playing the USB flash drive, select the next file to play the current file.</p> <p>VGA: VGA input source key, which is reused as when playing on the USB flash drive to stop playing.</p> <p>USB: external media playback, U disk playback input source,</p> <p>Status of the signal input source: If the indicator is steady on, a signal source is connected and in use.</p> <p>If the indicator is blinking, the port is in use but has no signal source.</p> <p>If the indicator is off, the signal source is not in use.</p>
7	MODE	Save and load scene shortcut keys

后面板





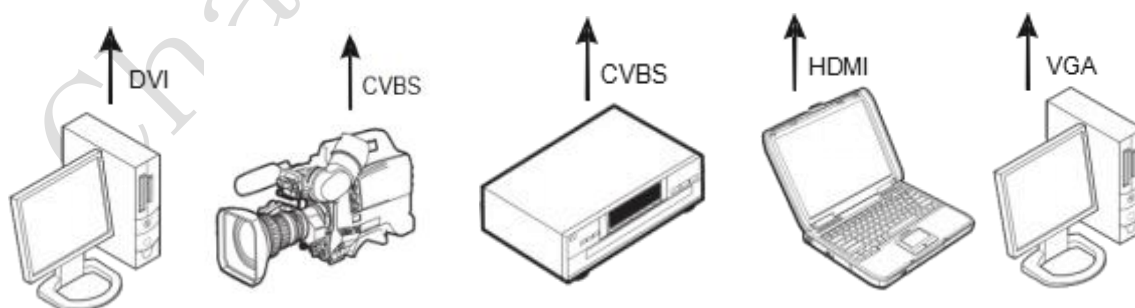
Input interface			
Serial number	port	quantity	Instructions
3	sensor	1	Sensor interface
4	HDMI	2	HDMI1.3 standard, maximum support 1920×1080@60Hz resolution Video source input, backward compatible. HDCP1.4 is supported.
5	VGA	1	Supports the maximum resolution 1920x1080@60Hz video source input, backward compatible.
6	DVI	1	The VESA standard supports up to 1920×1080@60Hz input video source input, backward compatible.
8	AUDIO IN	1	3.5mm audio interface
9	USB	1	1 x USB 2.0 port for connecting a USB flash drive (1080p@30fps supported) Video file. The USB flash drive file system supports NTFS, FAT32, and FAT16, but does not exFAT (FAT64). Image file formats: jpg, jpeg, png and bmp. Video coding: MPEG1/2, MPEG4, Sorenson H.263, H.263, H.264(AVC1), H.265(HEVC), RV30/40, Divx, Xvid. Video bit rate: below 4000 Audio coding: MPEG1/2 Layer I, MPEG1/2 LayerII, MPEG1/2 Layer III, AAC-LC, VORBIS, PCM and FLAC.
Output interface			
Serial number	port	quantity	Instructions
10	Net interface	4	4 Network port output port, connected to the receiving card.
8	AUDIO OUT	1	3.5mm audio interface Support audio output channels: 3.5mm audio

			interface, HDMI, USB
Control interface			
Serial number	port	quantity	Instructions
1	USB-B	1	USB debugging port
2	RS232	1	Debugging serial port
	LAN	1	Network debugging interface
7	WIFI antenna	2	Wireless Router WIFI Antenna (Custom)

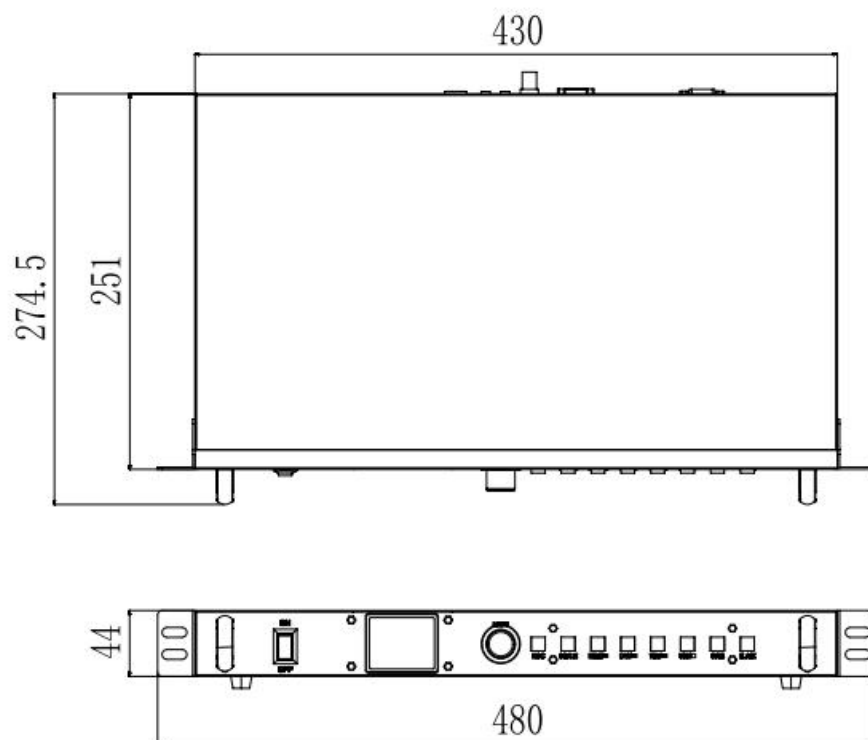
Application scenario



Net



Dimension drawing



4 Product Specifications

Specification parameter

Electrical parameter	Input voltage	AC-100-240V-50/60HZ
	Rated power	11W
Working environment	Operating temperature	-0°C - 45°C
	Working humidity	10%RH-90%RH non-freezing
Overall dimension	Box size: 430 x 251 x 44 mm (L x W x H)	

Matters needing attention

High voltage danger: The operating voltage of this product is AC-100V ~ 240V.

Do not immerse conductive objects such as liquid and metal fragments into the device to avoid safety accidents.

Keep the equipment in a dry and clean environment.