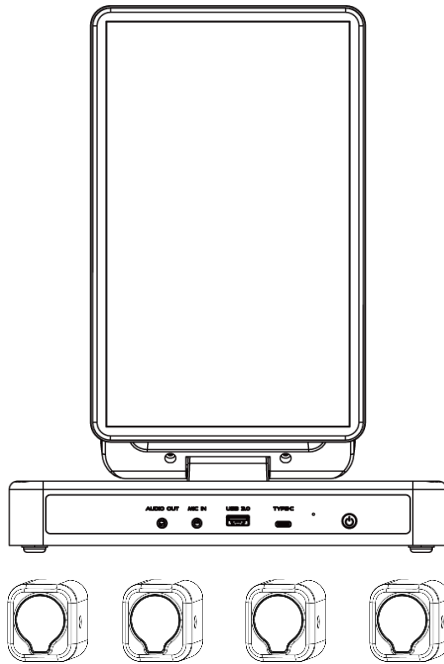


User Manual



Dear Customer, Thank you for choosing our product. To help you better understand this product, please read this manual carefully before use.

IMPORTANT SAFETY INSTRUCTIONS

Product Safety Guidelines

- Before connecting the device's power supply to an external power source, please confirm the power voltage value. When using, please note the device's control voltage marking: DC 12V.
- Please place power cables, video cables, etc. in locations where they are not easily accessible. Do not place heavy objects on power cables or fold video cables. Cable damage caused by human factors is not covered under warranty.
- Please use the device within the required temperature environment. Prevent foreign objects from entering the device, and do not allow water or other corrosive liquids to splash onto the main device to prevent danger.
- Do not disassemble or attempt to repair this product yourself. Unauthorized repair will void the warranty.
- Under normal and reasonably foreseeable operating conditions, this product poses no safety hazards.
- To continuously improve the product, we reserve the right to change product specifications without prior notice. Information in this document may be changed without notice.

WARNING!

- ⚠ This product contains small detachable parts that may cause choking, personal injury, or death, especially for children. Please use and handle with care, and keep away from children under 4 years old.
- Warning! Please connect all power cables to properly wired and grounded power outlets.
- ⚠ When not using the device for extended periods, please unplug the power cord.
- Batteries, electronic devices, and electrical equipment should not be disposed of with household waste. When possible, they should be separated and taken to appropriate collection points for recycling to avoid potential environmental and human health impacts.

一、Product Specifications

Main Unit		■ System: Operating System: Android 12 Network: Ethernet、WiFi6 Display: 10.9-inch 1080Pcapacitive screen Memory: 16G RAM+128G/256G ROM Upgrade: OTA ■ Video: Input: Cameras: 2/3/4-channel 4K (Different models support different numbers of camera) HDMI IN*1、RTMP network stream、mobile screen mirroring、USB IN*1 (USB only supported on certain models) Output: HDMI OUT*2 ■ Audio: Built-in microphone: Accurate pickup within 5 meters Input: 3.5mm microphone、USB microphone、HDMI audio Output: 3.5mm audio、HDMI audio ■ Interfaces : BNC x 4 HDMI IN x 1 HDMI OUT x 2 USB 3.0 x 1、USB 2.0 x 2 Type-C*1 ■ WiFi: WiFi6, 802.11 a/b/g/n/ac/ax ■ Bluetooth: BT 5.0 ■ Dimensions: 259.8*162.5*73mm ■ Operating Temperature: 0℃~50℃ ■ Power Consumption: <25W ■ Power Supply: 12V ■ Weight: 2126g
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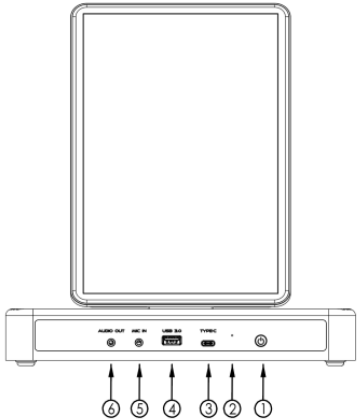
Camera (Medium Telephoto)		■Optical Resolution : 800M ■ Sensor : 8-megapixel high-sensitivity sensor ■Image Size : 3840*2160@25fps ■Aperture : F1.8 ■Focal Length : Equivalent 58mm ■Fixed Focus : Minimum 30cm object distance focusing ■Focus : LDAF laser focus ■Field of View : Horizontal FOV 36.3° , Vertical FOV 20.9° ■ Interface: BNC ■ Power Consumption: <2W ■ Operating Temperature: -20℃~70℃ ■ Waterproof Rating: IP65 ■ Dimensions: 38*42*42mm ■ Weight: 120g ■ Mounting: 1/4 screw interface
Camera (Ultra Wide-angle)		■Optical Resolution : 800M ■ Sensor : 8-megapixel high-sensitivity sensor ■Image Size : 3840*2160@25fps ■Aperture : F2.0 ■Focal Length : Equivalent 26mm , wider field of view ■Fixed Focus : Minimum 5cm macro ultra-fast focus ■Focus : LDAF laser focus ■Field of View : Horizontal FOV 72° , Vertical FOV 44.8° ■Interface : BNC ■Power Consumption : <2W ■Operating Temperature : -20℃~70℃ ■Waterproof Rating : IP65 ■Dimensions : 38*42*42mm ■Weight : 120g ■Mounting : Three-way 1/4 screw interface

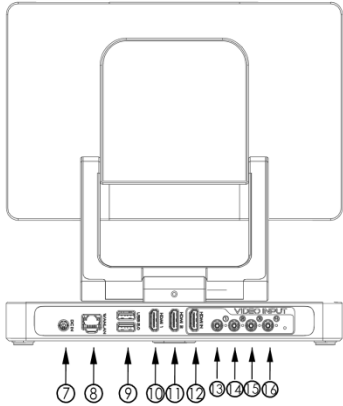
Director Keyboard		■Audio Control: MIC on, MIC mute ■Slide Control: Previous page, next page ■Scene Switching: Keys 1~6 correspond to the first six scenes on the main unit
High-Speed Video Cable		■BNC Interface, Interface diameter: 11.5mm ■Cable Diameter: 2mm ■Cable Length: 5 米、10 米、15 (optional) ■Connects cameras to main unit
Power Supply		■12V=5A Power Supply

二、Interface Description

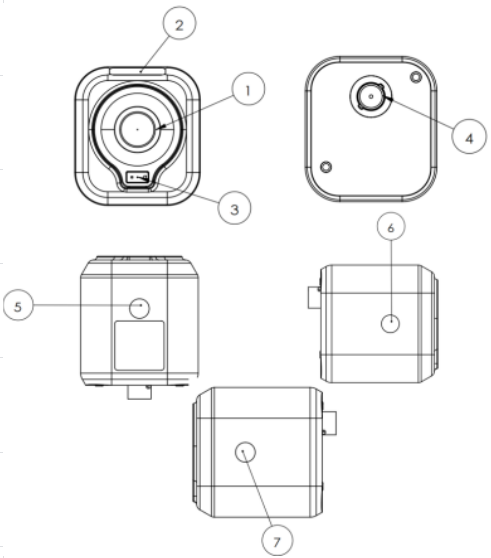
1、Main Unit Interfaces

No.	Name	
1	Power Button	
2	Built-in Microphone	
3	Type-C Interface	
4	USB 3.0	
5	MIC IN	

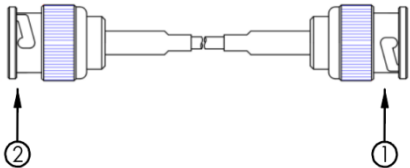
6	AUDIO OUT	
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No.	Name	
7	Power Interface	
8	Ethernet Port	
9	USB 2.0 × 2	
10	HDMI 1 Output	
11	HDMI 2 Output	
12	HDMI Input	
13	BNC Video Interface 1	
14	BNC Video Interface 2	
15	BNC Video Interface 3	(Product nameplate located on bottom of main unit)
16	BNC Video Interface 4	

2、Camera Interface

No.	Name	
1	Lens	
2	Tolly Light	
3	Full-frame Laser Focus	
4	MINI BNC Video Cable Interface	
5	Horizontal Mounting Interface	
6	Vertical Mounting Interface	
7	Special Direction Mounting Interface	

3、BNC Video Cable

No.	Name	
1、 2	MINI BNC Video Cable Interface	

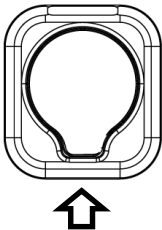
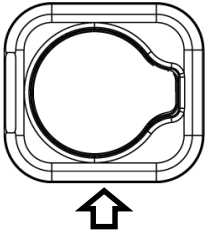
三、 Software Features

Feature Overview			
1	Graphics & Text Materials	Background Images	■ Background image composition for multi-camera splicing backgrounds, can also be used as virtual backgrounds for green screen keying
		Foreground Overlays	■ Foreground floating layer overlays for company logos, event themes, product highlights, promotional banners, etc.
		Text	■ Subtitle text, editable titles, name bars, important information, etc.
		Borders	■ Image borders, multi-camera picture-in-picture can set image borders
		Template Sets	■ Combined material template sets
2	Multimedia Materials	Video Materials	■ Local videos: m4v, mp4, mov, ts, uploaded via USB or local album ■ Video advertisement mode: automatically exits video scene after completion ■ Playback control: start/pause, previous/next segment, loop playback
		Slideshow Materials (PDF)	■ PDF file format , <200M ■ USB or local album upload ■ Playback control: automatic/manual switching, adjustable automatic switching speed
		Background Music	■ Local audio files: mp3, wav, wma, m4a, aiff, aac, flac, ogg, etc.
		Cloud Phone	■ Supports 4-channel network media stream pulling (rtmp, srt)
3	Integrated Direction	Free Scene Setting	■ Scenes composed of single or multiple video sources and graphics/text materials ■ Various layout template combinations, freely adjustable size and position, touch operation ■ A live streaming solution consists of multiple scene images, switching between live stream scenes through floating windows
		Copy Scene	■ When creating new or modifying scenes, you can copy the layout and materials of existing scenes
		Smart Recommendations	■ Intelligent scene recommendations based on connected camera types and quantities
		Landscape/Portrait	■ Both landscape and portrait scene compositions supported

4	Audio Control	4-Channel Audio Mixing	■ 4-channel audio mixing and control (microphone, HDMI, video audio, mobile phone) ■ Volume status display, volume control, mute operation ■ HDMI, video audio, mobile phone sound support following camera switching
		Persistent Background Audio	■ Supports setting HDMI, video audio, mobile phone sound as persistent background audio
		Monitoring	■ Supports 3.5mm headphones, Bluetooth headphone monitoring output
5	Image Settings	Focus Settings	■ Supports touchscreen tap-to-focus ■ Supports manual focal plane adjustment ■ Intelligent focus area locking
		Image Parameters	■ Supports digital zoom, brightness, contrast, sharpness, saturation, anti-flicker, white balance, color temperature, hue, shadows, shutter, focus speed, etc.
		Mirror Settings	■ Supports horizontal mirror, vertical mirror settings
6	Keying	Green Screen Keying	■ Hair-level keying, real-time background overlay
		Blue Screen Keying	■ Individual camera keying, flexible keying layer selection
7	AI Beauty	Built-in Beauty Algorithm	■ Refined makeup rendering, maintains makeup when turning head, natural when face is covered
8	Recording	Live Direction Recording Mode	■ PGM recording 1080P, bitrate 8M ■ Supports recording while live streaming ■ 2K storage time approximately 56 hours (256G version)
		4-Channel Sync Recording Mode	■ 4-channel PVW sync recording, simultaneous 4-screen audio-video recording ■ Supports 4-channel 4K or 4-channel 2K recording ■ Storage time: (256G version) √ 4-channel 2K approximately 14 hours √ 4-channel 4K approximately 7 hours
9	Live Streaming	Supports Direct APP Streaming	■ TikTok, Kuaishou, WeChat Video, Xiaohongshu, Tencent Live, Tencent Meeting, etc.
		Supports Push Streaming	■ Supports 3-channel rtmp push streaming, configurable bitrate and resolution
		HDMI Output	■ HDMI2 outputs PGM mixed screen, supports external capture card computer live streaming
		4-Channel PVW 4K Streaming	■ Supports 4-channel PVW 4K sync streaming

10	Split Screen Display	HDMI 2/ TYPE-C	■ HDMI 2- Functional output ✓ Live PGM audio-video output ✓ HDMI IN loop-through ✓ PDF teleprompter display ✓ Mobile screen mirroring interactive prompts ✓ Local video/network media source monitoring ■ TYPE-C - Touch extension ✓ Extended touch display ■ Supports combined screen monitoring (HDMI loop-through + PGM live screen)
11	Material Quick Transfer		■ Supports quick transfer of text, addresses, images, videos and other materials to device locally
12	OTA Online Upgrade		■ Supports software upgrades and feature updates

四、Camera Installation Direction Instructions

Landscape Live Streaming	Portrait Live Streaming
	
1、Digital top facing up 2、Mounting hole at bottom arrow position	1、Front view shows digits on the left side 2、Digits positioned vertically perpendicular to ground 3、Mounting hole at arrow position

五、Hazardous Substances Declaration

Component Name	Hazardous Substances					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr(v))	Polybrominated Biphenyls (PBB)	Polybrominated Diphenyl Ethers (PBDE)
Circuit Board	×	○	○	○	○	○
Housing	○	○	○	○	○	○
Screws	○	○	○	○	○	○
Packaging Materials	○	○	○	○	○	○
This table is compiled according to SJ/T11364-2014 regulations. ○ indicates that the hazardous substance content in all homogeneous materials of this component is below the limit requirements specified in GB/T 26572-2011. × indicates that the hazardous substance content in at least one homogeneous material of this component exceeds the limit requirements specified in GB/T 26572-2011, and currently there are no mature alternative solutions in the industry, complying with EU RoHS directive environmental requirements.						
	The number in this marking indicates the environmental use period of the product under normal use conditions is 10 years. Some components may also have environmental use period markings, where the environmental use period is based on the number in the marking.					

Note: Circuit board: Lead content in ceramics or glass of electronic components on single boards/circuit modules.

六、Certificate of Conformity and Warranty Information

合格证 已检验	● This product is covered by a one-year warranty from the date of purchase. ● During the warranty period, under normal use and maintenance conditions, if the machine itself has problems or failures, and upon verification, free repair and replacement of parts will be provided. ● During the warranty period, if the following situations occur, the company has the right to refuse service or charge material and service fees at its discretion: 1) Cannot provide valid purchase receipt. 2) Product damage caused by improper user operation. 3) Damage caused by abnormal external force. 4) Damage caused by disassembly and repair by non-authorized service personnel. 5) Failures and damage caused by natural disasters or other force majeure factors.
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七、Support and Resources

Video Manual and Customer Support

User Manual	Official Account
	

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception,

which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC' s RF Exposure guidelines,
This equipment should be installed and operated with minimum
20cm distance between the radiator and your body. Use only the
supplied antenna.