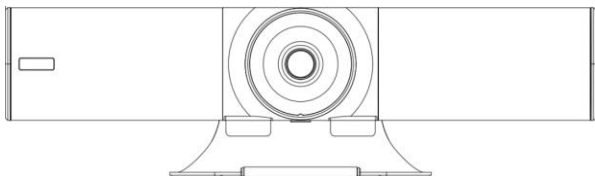


TridentAI



(V2.0)

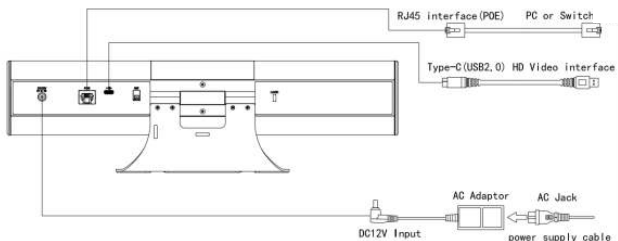
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PACKING LIST

Camera	1
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Power Cable	1
Type-C Cable	1
Remote Control	1
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QUICK START



Trident Features:

- Advanced DSP, Sony 1/2.8 inch 8.42 megapixel sensor and high quality 12 megapixel lens, Ultra high definition output,
- USB2.0 YUY2/NV12/MJPG/H.264/H.265 video format, works with Windows, MacOS, Android, Linux OS.
- Type-C port output.
- 120°FOV
- Lens distortion rate less than 2%
- Support WDR, 3DNR, Anti-flicker

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- Standard UVC protocol, compatible with most UCC platforms
- The low noise CMOS enables an ultra-high signal-to-noise ratio in the camera's video output and allows for a clear and sharp image.
- Autoframe participants dynamically as they enter or exit the camera frame or change positions; Autoframing is selectable via remote, or desktop control.
- Backlight compensation to compensate for bright light sources, eliminating unnatural shadows and "light blooming".
- Preset camera positions available when using manual mode.
- High Definition Audio with 16K pickup and 24K playback makes for a crystal clear connection. Utilizing the latest techniques in spatial audio mapping and sampling, the background noise is eliminated even in a noisy environment, it can make the voice sound clear. With 360° Omni-directional microphones, range is up to 5 meters. Full Duplex capability.
384ms Acoustic Echo Cancelation (AEC)
Automatic Noise Suppression (ANS)
Automatic Gain Control (AGC)
Peak-limiting algorithm eliminates even momentary distortion.

PRODUCT SPEC

Model		Trident
Sensor		1/2.8 inch, high quality, 8.42 megapixel SONY CMOS sensor
Video Format	USB2.0	YUY2, NV12: 1280*720@15; 1024*576@20; 640*480@30

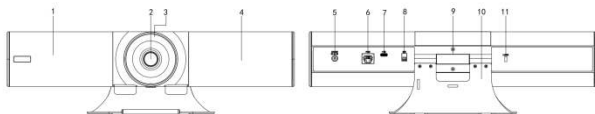


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		MJPG: 3840*2160@30; 2560*1440@30; 1920*1080@30; 1280*720@30; 1024*576@30; 640*480@30
		H.264, H.265: 3840*2160@20; 2560*1440@30; 1920*1080@30; 1280*720@30; 1024*576@30; 640*480@30
	RJ45	Only for power (POE)
Digital Zoom		4X
Field of View		120°
Sensor Resolution		8.42 megapixel
Control Port		USB2.0 (UVC/UAC)
Video Port		Type-C (USB2.0)
S/N Ratio		>50dB
Focal Length		f=2.20mm
Minimum Lux.		0.1 lux
White Balance		Auto/Manual
Iris		F 2.2
Anti-Flicker		50HZ/60HZ/OFF
WDR		Supported
Edge Enhancement		Supported
Digital Noise Reduction		2D&3D
Image Flip		Supported
Electronic Pan/Tilt		Supported
Auto frame		Supported
Backlight Compensation		Supported
Ideal Microphone range		3~5 meters
USB Audio		Supported
Microphone		Omnidirectional microphone(100~16KHz)
Sensitivity		-26±2dB RL=2.2KΩ Vs=2.0V
Input Voltage		DC port
Speaker		4Ω/8W 100-24KHz 2inch Anti-magnetic speaker

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POE	Supports IEEE802.3af
Dimension (L × W × H)	395mm×113mm×112mm/15.5"×4.5"×4.4"
Net Weight	1 kg/2.2 lbs.



1. Speaker

2. Camera lens

3. Status indicator light

4. Multi array microphone

5. DC12V power interface

6. RJ45 interface (POE)

7. Type-C (USB2.0) interface

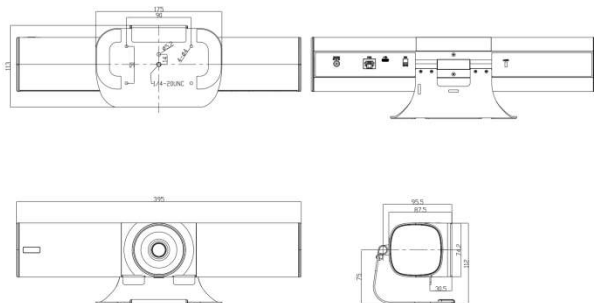
8. Dip switch for firmware upgrades

9. Adjustable spindle

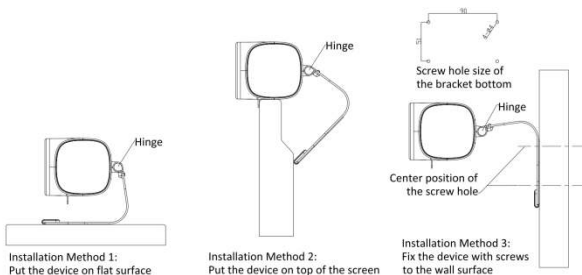
10. Rotatable bracket

11. Kensington® type slot

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INSTALLATION MODES:



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REMOTE CONTROL:

LED indicator:

The remote control is unique in that a single control can operate up to three cameras.

Camera 1 operation is standard, and the LED will flash red when the commands are being sent to camera 1

Camera 2 operation is indicated by a green LED

Camera 3 operation shows as a blue LED

CAM1/CAM2/CAM3: A quick press of the colored key is all that is needed to select the camera.

Zoom adjustment key: +/- Adjusts the electronic zoom, only available when manual control is selected over automatic framing.

Power key: Standby / start camera.

BLC: Set backlight compensation ON or OFF.

Navigation key: up, down, left and right In manual control mode, use to adjust the position of electronic pan or tilt. Also used to navigate on screen menu.

Confirm/Home key: In manual control mode, a quick press will return image to home position. When using the menu, it is used to confirm the menu options.

Menu key: In manual control mode, a quick press to enter/exit the menu.

Volume control key:

A quick press will incrementally increase or decrease the volume output of the Trident. Note- volume control of the PC or device connected is not influenced by this selection.

Video Mute/Micro Mute:

Video Mute and micro mute.

A/M: Auto frame/Manual frame.

PUSH Frame:

In Auto frame off mode, you can manually trigger the Auto frame once.

Preset key:

Long press for 3 seconds to save the current position to the corresponding preset position, shortly press to call the preset position, only available when Auto frame is closed.



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Mirror/Flip: Used to change mage orientation.

Reset: Press and hold for 3 seconds to reset the camera parameters to the factory settings.



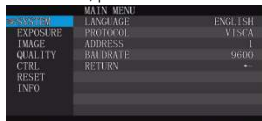
Digital key mapping:

As shown in the figure on the right, in non-menu mode, this part of the keypad is used for the function identified on the key; while in menu mode, this part of the keypad is used as numeric keys.



On Screen Display (OSD) menu

1. In normal mode, press the menu button  on the RF remote, to enter the OSD menu; press the menu button again to exit and save modified parameters.



2. Use the navigation button to select the main menu. As seen above, the main menu will change to gray background, and the right column will show all parameters under the selected sub menu.

3. After entering the main menu, press the up/down navigation buttons to select the desired sub menu, then use left/right navigation button to set the parameter.

4. To return to the upper-level menu, select the "return" and then press the left or right navigation button to return to previous menu.



5. Press OSD button once again to exit the menu.



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6. OSD Menu Layout:

SYSTEM	LANGUAGE	ENGLISH/CHINESE	
	PROTOCOL	Optional item: VISCA	Default: VISCA
	ADDRESS	VISCA:1~7	Default: 1
	BAUDRATE	2400,4800,9600,115200 optional	Default: 9600
	RETURN	Back to the main menu	

EXPOSURE	EXP.MODE	AUTO/MANU	Default: AUTO
	SHUTTER	Shutter speed:1/30~1/10000, only valid under MANU mode	Default: 1/100
	GAIN	Gain setting:0~15, only valid under MANU mode	Default: 0
	FLICK	OFF/50HZ/60HZ	Default: 50HZ
	BACKLIGHT	ON/OFF	Default: OFF
	GAMMA	0~15	Default: 8
	RETURN	Back to the main menu	

IMAGE	WB MODE	AUTO/MANU	Default: AUTO
	B GAIN	Blue gain level:0~256, only valid under	Default: 100
	R GAIN	Red gain level:0~256, only valid under	Default: 100
	DEFOG	Set the image permeability:OFF/1~15	Default: OFF
	RETURN	Back to the main menu	

QUALITY	2D NR	Set 2D noise reduction level: ON/OFF	Default: OFF
	3D NR	Set 3D noise reduction	Default: AUTO
	SHARPNESS	Sharpness setting:0~15	Default: 8
	CONTRAST	Contrast setting:0~15	Default: 8
	SATURATION	Saturation setting:0~15	Default: 8
	BRIGHT	Bright setting:0~15	Default: 8
	RETURN	Back to the main menu	

CTRL	MIRROR	Turn the screen left and right ON/OFF	Default: OFF
	FLIP	Picture up and down ON/OFF	Default: OFF
	AUTO FRAME	AUTO/MANU	Default: AUTO
	RETURN	Back to the main menu	

RESET	CAM RESET	Reset camera parameter to default	
	RETURN	Back to the main menu	

INFO	CTRL VER	Camera movement control program version	
	CTRL DATE	Release date of camera movement control program	
	RETURN	Back to the main menu	

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