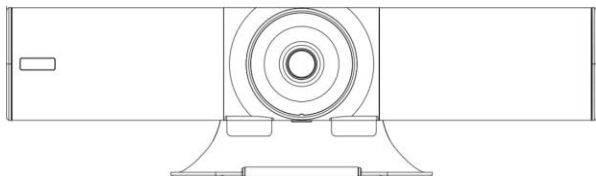


## Trident User Manual Reference

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# TridentAI



(V2.0)

J.BC.0205.0150

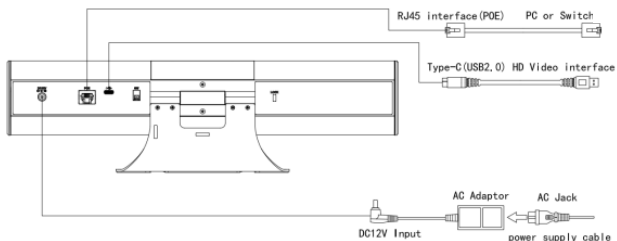
## Trident User Manual Reference

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### PACKING LIST

|                       |   |
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| Power Adapter.....    | 1 |
| Power Cable .....     | 1 |
| Type-C Cable .....    | 1 |
| Remote Control .....  | 1 |
| User Manual .....     | 1 |
| QC certification..... | 1 |

### 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

## Trident User Manual Reference

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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

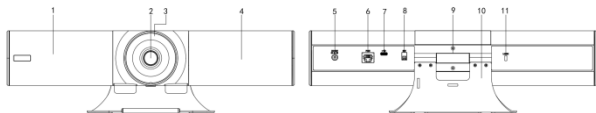
| Model        |        | Trident   |
|--------------|--------|---|
| Sensor       |        | 1/2.8 inch, high quality, 8.42 megapixel SONY CMOS sensor |
| Video Format | USB2.0 | YUY2, NV12:<br>1280*720@15;<br>1024*576@20;<br>640*480@30 |

## Trident User Manual Reference

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

## Trident User Manual Reference

|                              |                                   |
|------------------------------|-----------------------------------|
| <b>POE</b>                   | Supports IEEE802.3af              |
| <b>Dimension (L × W × H)</b> | 395mm×113mm×112mm/15.5"×4.5"×4.4" |
| <b>Net Weight</b>            | 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



## Trident User Manual Reference

### 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.



## Trident User Manual Reference

**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

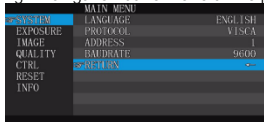
1. In normal mode, press the menu button  on the RF remote, to enter the OSD menu; press the menu button again to exit and save modified parameters.



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.





## Trident User Manual Reference

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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                                  |                |

## **Trident User Manual Reference**

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