



User  
Manual


**V-COMPLETE 4K**  
Camera Soundbar



# Safety instructions

When using this electronic device, basic precautions should always be taken, including the following:

- 1 Read all instructions before using the product.
- 2 Do not use this product near water (e.g., near a bathtub, washbowl, kitchen sink, in a wet basement or near a swimming pool etc). Care should be taken that objects do not fall into liquids and liquids would not be spilled on the device.
- 3 Use this device when you are sure that it has a stable base and it is fixed securely.
- 4 The product should be located away from heat sources such as radiators, heat vents, or other devices that produce heat.
- 5 Note for power connections: for pluggable equipment, the socket-outlet shall be installed near the equipment and shall be easily accessible.
- 6 The power supply should be undamaged and never share an outlet or extension cord with other devices. Never leave device plugged into the outlet when it is not being used for a long period of time.
- 7 Power disconnection: when the power cord connected to the power grid is connected to the machine, the standby power is turned ON. When the power switch is turned ON, the main power is turned ON. The only operation to disconnect the power supply from the grid, unplug the power cord.
- 8 Protective Grounding - An apparatus with class I construction shall be connected to a power outlet socket with a protective grounding connection.  
Protective Earthing - An apparatus with class I construction shall be connected to a mains socket outlet with a protective earthing connection.
- 9 The lightning flash with an arrowhead symbol, with an equilateral triangle, is intended to alert the user to the presence of uninsulated dangerous voltage' within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons. 
- 10 The exclamation mark within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance. 
- 11 There are some areas with high voltage inside, to reduce the risk of electric shock do not remove cover of the device or power supply. The cover should be removed by the qualified personnel only.
- 12 The product should be serviced by qualified service personnel if:
  - The power supply or the plug has been damaged.
  - Objects have fallen into or liquid has been spilled on the product.
  - The product has been exposed to rain.
  - The product has been dropped or the enclosure damaged.

|   |   |
|---|---|
| <br><b>CAUTION</b><br>RISK OF ELECTRIC SHOCK<br>DO NOT OPEN | To reduce the risk of electric shock, do not remove screws. No user-serviceable parts inside. Refer servicing to qualified service personnel. To reduce the risk of fire, electric shock or product damage, do not expose this apparatus to rain, moisture, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus. |
|---|---|



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# Before you start

V-Complete 4K is a combination of an Ultra HD image quality video camera with and built-in soundbar, that can be used as an all-in-one solution for online conferencing for education purposes. Low noise image sensors and autofocus lenses ensure a clear view even in dim-light or contrasty environments. The video camera utilizes intelligent software for face detection and automatic framing of participants. When a device recognizes one meeting participant speaking, it automatically moves the lens, focuses on the face, and shifts its microphone pick-up beam towards the speaker for a clear and isolated voice. Setting up V-Complete 4K can be as easy as plugging power and USB cables. Although designed for fully-automated operation (suitable for most users), the device provides plenty of manual controls that can be accessed with included RF remote control. The device also supports ePTZ and mechanical PTZ (MPT) field of view controls.

## FEATURES

- 4K Ultra HD
- 121° wide field of view (110° horizontal field of view),
- 5 x digital zoom
- Built-in 4 Beam Forming microphones
- Microphone pickup distance up to 6 meters
- Audio Bluetooth receiver
- 3A audio processing technology
- Face detection and automatic framing
- Support HDMI 1.4b and USB 3.0 audio video output
- Easy installation and flexible options

# Operation

## Front Panel | V-Complete 4K



1. Speaker | 2. LED indication | 3. Optical lens | 4. Microphone

## Rear Panel | V-Complete 4K



1. Power supply connector | 2. USB-C port for AV connection | 3. Reset button | 4. HDMI Output | 5. USB-A 2.0 Port

# Operation

## Front panel

### **LENS**

Wide angle lens optimized for conference calls or online meetings. The camera is based on ePTZ technology, supports 5x digital zoom, and additionally adjusts the lens in  $\pm 15^\circ$  motion range by using Pan and Tilt motors integrated into the lens holder.

### **BEAMFORMING MICROPHONE**

Because of Beam Forming (BF) the microphone array camera is able to pick up the voice up to 6 meters distance. Low-distortion beamforming algorithm can direct the microphone directly to the speaker to ensure clear audio for communication.

### **SPEAKER**

A full range 10W loudspeaker designed with two passive radiators provide ensures clear and rich sound.

## Rear panel functions

### **DC 12V POWER CONNECTOR**

Power Jack DC 12 V, 1.5 A connector.

### **USB TYPE C INTERFACE**

Plug and play a USB C interface dedicated to connecting the camera to the computer or business display screen.

### **RESET BUTTON**

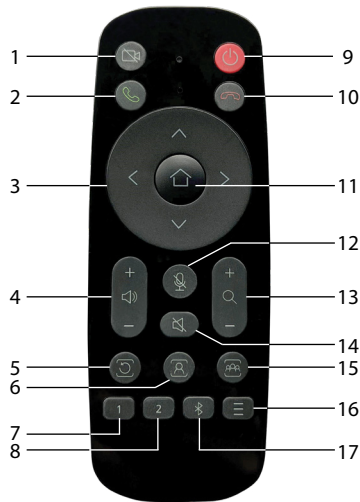
This button resets all camera parameters to default values. To activate this function, press and hold the button for two seconds.

### **HDMI INTERFACE**

HDMI output meets HDMI 1.4d specification. Configured to work in parallel to USB type C audio/video output. Interfaces - support HDMI 1.4b and USB-C 3.0 audio video output simultaneously.

# Operation

## Remote Control



| No  | Name                      | Function Description   |
|-----|---------------------------|--|
| 1.  | Disable/enable video      | Buttons allow to activate or deactivate video signals without turning off the camera. Settings valid for camera only microphone keeps active even camera is deactivated. |
| 2.  | Call key                  | Answer/initiate call/enter the call interface.   |
| 3.  | PAN and TILT control      | The camera lens moves in the direction indicated by the arrow. Press the middle home key to return lens's default position.  |
| 4.  | Volume key                | + Key volume up, - Key volume down.  |
| 5.  | Exit tracking key         | After pressing, the camera will automatically exit the tracking mode.  |
| 6.  | Speaker tracking key      | After pressing, the camera will perform voice tracking of the speaker.   |
| 7.  | Preset 1 key              | Long press to set preset 1, short press to call preset 1.  |
| 8.  | Preset 2 key              | Long press to set preset 2, short press to call preset 2.  |
| 9.  | Standby key               | To put a camera into standby mode press this key for a long. A short press wakes up the camera from standby.   |
| 10. | Hang up key               | Hang up the call/Leave the meeting.  |
| 11. | Home (OK) button          | Confirm current selection or return lens to default position.  |
| 12. | Microphone mute key       | Turn on/off the microphone.  |
| 13. | Zoom key                  | Zoom in the lens [+]; Zoom out the lens [-].   |
| 14. | Speaker mute key          | Turn on/off the speaker.   |
| 15. | Participants tracking key | After pressing, the camera will automatically frame the participants.  |
| 16. | Menu key                  | Press to enter or exit the OSD menu.   |
| 17. | Bluetooth key             | Turn on/off the Bluetooth function.  |

# Operation

## Remote Control Pairing

**Note:** The remote control has been paired with the camera for default. Guide instructions below on how to pair a new remote control or reset the old one.

**Step 1** Connect the camera to the power supply and wait till the camera completes initialization and enables video outputs.

**Step 2** Reset remote control:

Press and hold the MENU and HOME buttons at the same time, keep pressing until the remote-control indicator shows a steady red light, and release the button to successfully clear the remote control paired status.

**Step 3** Trigger the camera to enter the remote-control pairing mode:

Press and hold the reset button on the camera rear panel till the camera's LED indication switches to a blue blinking color. Note: Each time you enter the pairing mode, there is only 15s operation time. After the timeout, pairing mode will be automatically exited. The camera indication stops blinking after successful pairing or at the end of the time reserved for pairing.

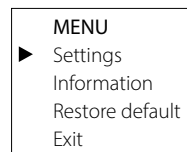
**Step 4** Start pairing:

Press and hold the reset button on the camera rear panel till the camera's LED indication switches to blue chasing light. Note: Pairing mode is active 15s only. Pairing mode will be automatically stopped after this time. The camera indication starts blinking in blue for a while after a successful pairing.

## GUI Settings

### Menu

Press the Menu key under during image, and the screen will display menu content.



### Settings

Move the cursor to "Setting" in the main menu, and press [OK] to enter the setting page, as shown in the below figure.

Language: Optional items: English, Chinese.

Video Setting: Setting 2D NR, 3D NR, WDR Enable, Flip-H, OSD Mirroring.

Audio Setting: Setting 3A Enable, Mic Equalizer.

EPTZ: Optional items: On, off.

Zoom Limit: Optional items: 1.5x, 2x, 3x, 4x, 5x.

HDMI Format: Optional items: 1080P30, 1080I60, 4K@30, 4K@30 PIP.

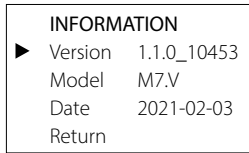
Tracking Mode: Optional items: Off, Participants, Speaker.

Tracking Effect: Smooth, Instantaneous (Effective only in Participants or Speaker of Tracking Mode).

Tracking Speed: Slow, Normal, Fast (Effective only in Participants or Speaker of Tracking Mode).

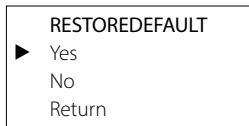
## Information

Move the cursor to “Information” in the main menu, and press [OK] to enter the information page, as shown in the below figure.



## Restore Default

Move the cursor to “Restore Default” in the main menu, and press [OK] to enter the restore default page, as shown in the below figure.



Yes / No: Confirm or cancel restore factory settings.

## Maintenance & Troubleshooting

### Camera Maintenance

- If a camera is not used in long term, please disconnect the main power after use.
- Use a soft cloth to remove dust from the camera housing.
- When cleaning the camera lens, please use a dry soft cloth to wipe, if it is very dirty, use neutral cleaner gently. Do not use strong or corrosive detergent, lest the lens scratch, affect the image effect.

### Avoid Using

- The camera should avoid shooting particularly bright objects, such as sunlight, lights, etc.
- The camera should not work under unstable lighting conditions, otherwise, the image will flash.
- Do not use around facilities that can transmit high-power radio waves, such as television stations or radio-transmitting stations.



# General Specifications

## V-Complete 4K Camera Soundbar

| Technical Specifications |  |
|--------------------------|--|
| Video System             | 4K@30fps, 1080P@30fps, 720P@30fps, etc                 |
| Sensor                   | 1/2.5 inch, CMOS, 8.51M pixel                          |
| Lens                     | 121°(DFOV), 110°(HFOV), 5x Digital Zoom, Pan/Tilt ±15° |
| PTZ                      | MPT + EPTZ   |
| Digital Noise Reduction  | 2D & 3D Digital Noise Reduction                        |
| Video S/N                | ≥55 dB   |
| Backlight Compensation   | Support  |
| Speaker                  | 10W 3" full range with two passive radiators           |
| Microphone Array         | 4 pcs. beam forming microphone                         |
| Video Compression        | YUY2 / MJPEG   |
| USB Audio                | 32 K sampling rate, support UAC 1.0                    |

| Technical Specifications   |   |
|----------------------------|---|
| USB Communication Protocol | UVC 1.1                                       |
| UVC PTZ Control            | Support                                       |
| Video output               | 1 x HDMI, Version 1.4b                        |
| USB type                   | 1x USB 3.0 Type C, 1x USB 2.0 Type A          |
| Operating Temperature      | 0 °C ~ 40 °C                                  |
| Storage Temperature        | -40 °C ~ 60 °C                                |
| Dimensions (H x W x D) mm  | 601 mm x 141 mm x 115 mm<br>(holder included) |
| Net Weight                 | 2.5 kg  |

\*GUI menu and parameter information are subject to change without notice. The specifications are correct at the time of printing this manual. For improvement purposes, all specifications for this unit, including design and appearance, are subject to change without prior notice.