HV-50 Video Conferencing Room Solution

User Manual

IMPORTANT

This manual introduces functions, installation and operations for HV-50 video conferencing room solution in details. Please read this manual carefully before installation and use.

1.   How to Use

To prevent damage to this product or any product connected to it, this product can only be used within the specified range.

1.1.   Do not expose the product to rain or moisture.

1.2.   To prevent the risk of electric shock, do not open the case. Installation and maintenance should only be carried out by qualified technicians.

1.3.   Do not use the product beyond the specified temperature, humidity or power supply specifications.

1.4.   Wipe it with a soft, dry cloth when cleaning the camera lens. Wipe it gently with a mild detergent if needed. Do not use strong or corrosive detergents to avoid scratching the lens and affecting the image.

2.   Electrical Safety

Installation and use of this product must strictly comply with local electrical safety standards.

3.   Handle with care

Avoid damage to product caused by heavy pressure, strong vibration or immersion during transportation, storage and installation.

4.   Install with Caution

4.1.   Do not rotate the camera head violently, otherwise it may cause mechanical failure.

4.2.   This product should be placed on a stable desktop or horizontal surface. Do not install the product obliquely, otherwise it may display inclined image.

4.3.   Housing of this product is made of organic materials. Do not expose it to any liquid, gas or solids which may corrode the shell.

4.4.   Ensure there are no obstacles within rotation range of the holder.

4.5.   Do not power on before installation is completed.

5.   Do not Disassemble the Product without Permission

This product contains no parts which can be maintained by users. Any damage caused by dismantling the product by user without permission is not covered by warranty.

6.   Magnetic Interference

Electromagnetic fields at specific frequencies may affect the image. This product is Class A. It may cause radio interference in household appliances. Appropriate measure is required.

CONTENT

1. PACKING CONTENTS

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1. Speakerphone
2. HD PTZ Camera
3. Hub
4. Remote Control
5. 5m DIN6 Cable * 2 pcs
6. 3m USB cable *1 pcs
7. Power supply

2.   PRODUCT OVERVIEW

2.1. HV-50-A: Speakerphone
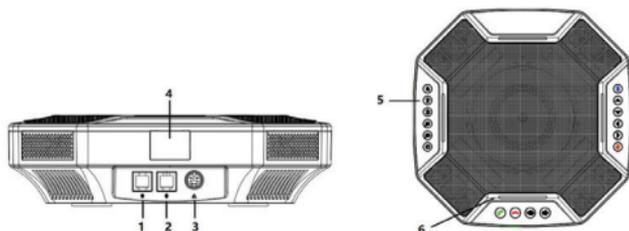
1.   Optional expansion
     microphone port 1

2.   Optional expansion
     microphone port 2

3.   DIN6 cable port

4.   IR remote control receiver

5.   Function keys

6.   Status indicator

2.2. HV-50-V: HD PTZ Camera

1.   LAN Upgrade and
     maintenance

2.   DIN6 Cable port

3.   Power and infrared
     receiving indicator

4.   Bracket mounting screw holes

5.   Bracket mounting
     positioning hole

2.3. HV-50-H: Hub
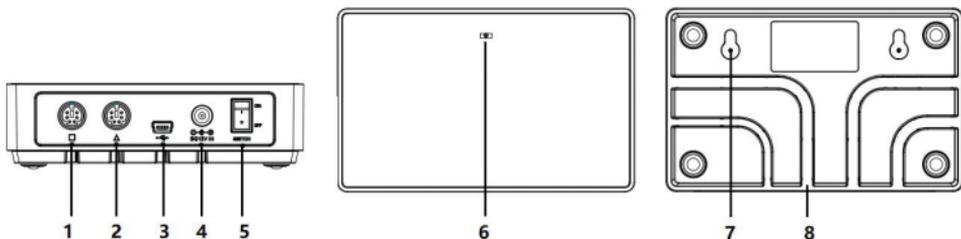
1.   DIN6 Cable port
2.   DIN6 Cable port
3.   Mini USB port
4.   Power port
5.   Power switch
6.   Power indicator
7.   Screw holes
8.   Wire slot

3.   CONNECTION DESCRIPTION
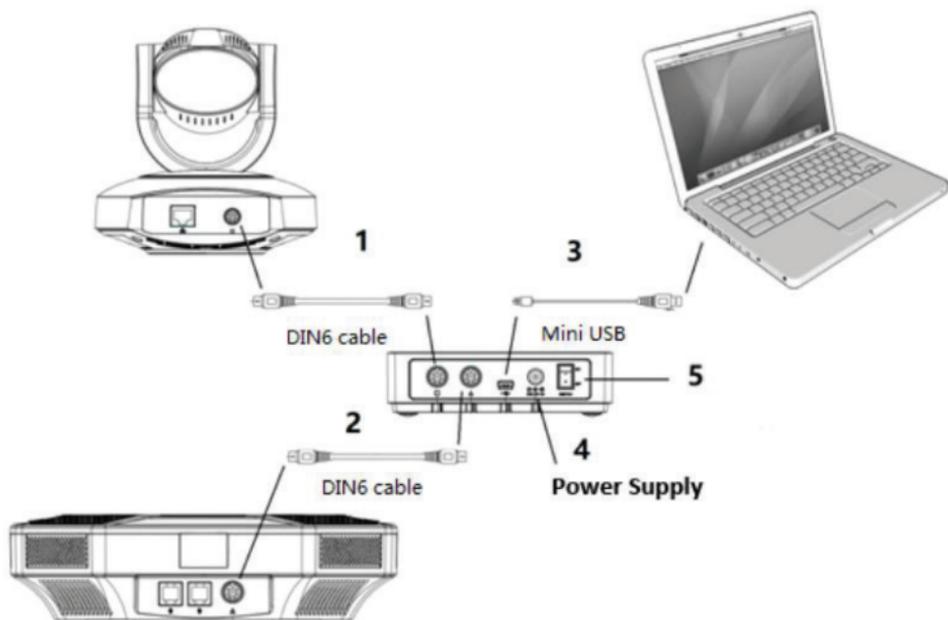
1.   Connect camera and hub with original DIN6 data cable
2.   Connect the speakerphone and hub with original DIN6 data cable
3.   Connect the computer to the hub with the original USB cable
4.   Connect with the original power adapter and power supply
5.   Switch to power on

4. KEYS DESCRIPTION

4.1. Keys Description of Remote Control
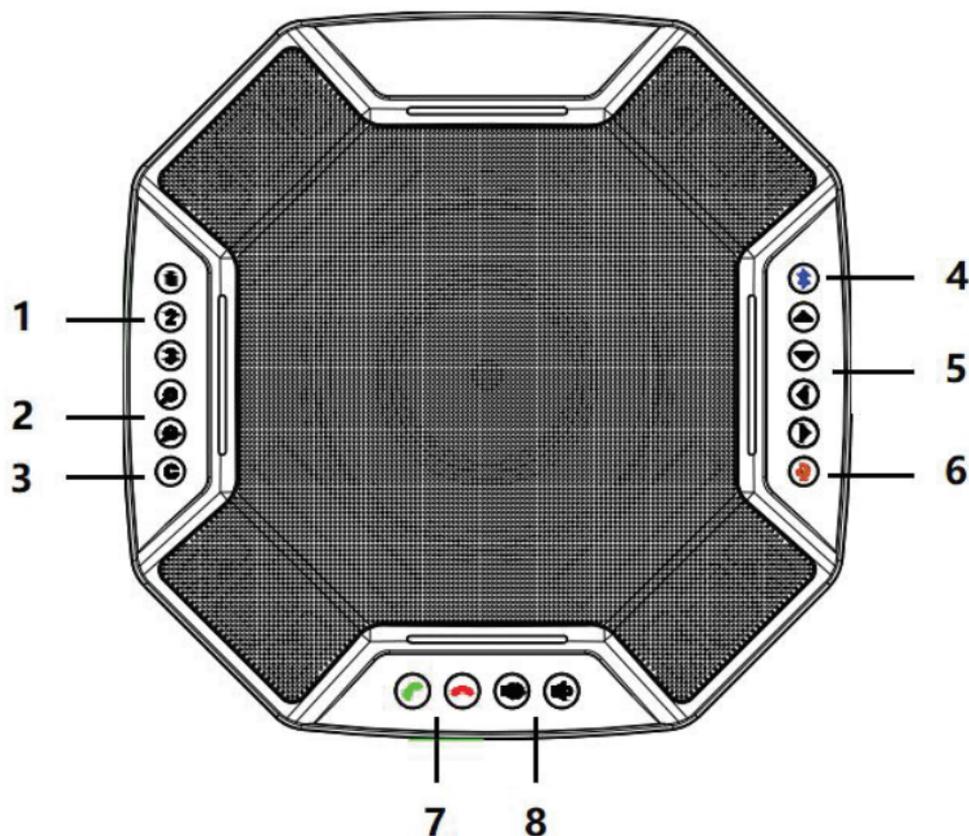
1. Device standby
2. Zoom in
3. Zoom out
4. Volume up
5. Volume down
6. Pan / Tilt
7. HOME Camera Zero position
8. Mute microphone
9. Pick up
10. Hang up
11. 0-9 Camera presets
12. Reserved (for future functions)

4.2. Keys Description of Remote Control

1. 1-3 Presets
2. Zoom in / Zoom out
3. Camera Zero position
4. Bluetooth pairing
5. Camera pan / tilt
6. Mute microphone
7. Pick up / Hang up
8. Volume up / volume down

5. USING VIDEO CONFERENCING SOFTWARE

Correctly connect HV-50. Login on your video conferencing software on the computer, and select the corresponding camera, microphone and speaker driver. The HV-50 and VC software will then serve your video conferencing needs perfectly.

Refer to the image below (e.g.: ZOOM software)

Camera: | HV-50 Camera

HV-50 Camera

Test Speaker | 8-USB audio device

8-USB audio device

Output Level: | Same as System

Realtek Digital Output (Realtek High Definition A

Volume: | 扬声器 (Realtek High Definition Audio)

Test Mic | 8-USB audio device

8-USB audio device

Input Level: | Same as System

麦克风 (Realtek High Definition Audio)

Volume:

☐ Automatically adjust volume
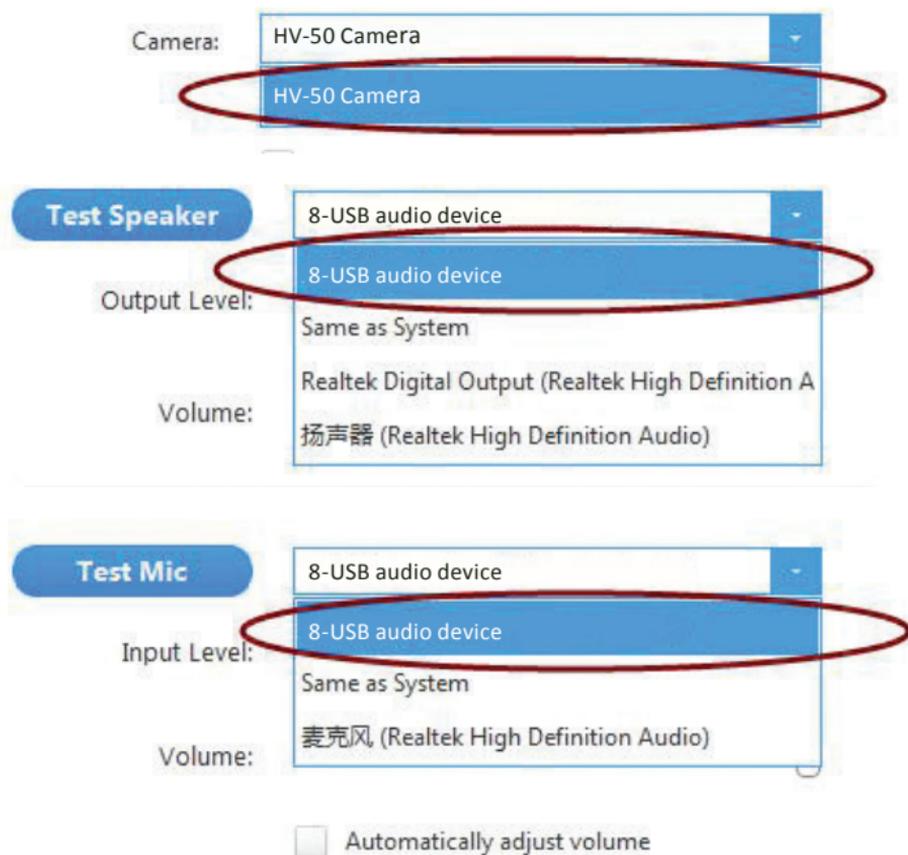
6. BLUETOOTH PAIRING

Once paired with a Bluetooth device, you can use the speakerphone for audio calls. To pair your Bluetooth device with the speakerphone:

1. Press and hold the Bluetooth pairing button until the status indicator flashes blue light. The speakerphone is under Bluetooth pairing mode.

2. Search HV-50 with your Bluetooth device and connect.

7. PRESET

How to save preset:
Adjust the camera to the position that needs to be preset. Press and hold the preset button for 5 seconds. The corresponding preset position is set successfully. (Note: 10 preset positions (0-9) can be set on the remote control; 3 preset positions (1-3) are available for the speakerphone. The preset 0 is the power-on preset position).

How to use preset position:
Short press the preset button to call the corresponding preset position (Note: the number key is invalid if not preset);

8.   TECHNICAL SPECIFICATIONS

Model NO.	HV-50-V
Product Picture	
Sensor	1/2.8 inch high quality HD CMOS sensor
Effective Pixels	2.07M,16:9
Video Format	176x144/320x240/320x180/352x288/640x480/720x480/ 720x576/640x360/800X600/960X540/1024X576/ 1024X768/1280X720/1920X1080P30/25/20/15/10/5
Optical zoom lens	5x optical zoom, f=3.1~15.5mm
View angle	20° tele 83.7° wide
Aperture value	F1.8 – F2.8
Digital Zoom	X10
Minimum Illumination	0.5Lux(F1.8, AGC ON)
DNR	2D&3D DNR
White Balance	Auto/Manual/One Push/3000K/3500K/4000K/ 4500K/5000K/5500K/6000K/6500K/7000K
Focus	Auto/Manual/One Push
Aperture/Electronic Shutter	Auto/Manual
BLC	ON/OFF
WDR	OFF/ Dynamic level adjustment
Video Adjustment	Brightness, Color, Saturation, Contrast, Sharpness, B/W mode, Gamma curve

SNR	>55dB
Rotation angle	Pan: –125°~+125°, Tilt:-30°~+30°
Control speed	Pan: 0.1 ~65°/sec, Tilt:0.1~35°/sec
Preset speed	Pan: 65°/sec, Tilt: 35°/sec
Dimensions	151.64mm×131.25mm×154.5mm (L×W×H)

Model NO.	HV-50-A
Product Picture	
Voice technical parameters	Acoustic Echo cancellation (AEC): >65dB Echo length cancellation: ≥400ms Bidirectional noise compression (NC): <25dB Automatic Direction finding Technology of Intelligent microphone (EMI) Automatic gain control (AGC)
Audio parameters	Microphone frequency response: 100Hz-22KHz Speaker frequency response: 100Hz-22KHz Speaker volume: 95dB at the most Microphone sound-pickup diameter: 6 meters, 360 degrees full range
Bluetooth	Bluetooth devices available
IR Reception	Angle: 360° Distance: 10m IR Transparent transmission available
Expansion Mic (optional)	2 external microphones optional for connection makes the sound-pickup diameter up to 10 meters
Dimensions	200mm×200mm×52mm (L×W×H)

Model NO.	HV-50-H
Product Picture	
Interface	Mini DIN6 ×2 Power interface × 1 Power switch × 1 Mini USB interface × 1
Power supply	EC3800 plug (DC12V) Adapter input AC110V-AC220V, output DC12V/1.5A
Connection Cable	Mini DIN6 data line × 2 Length: 5m (10m/15m for options)
USB cable	USB2.0 cable
Compatibility	Supports Windows, Android, iOS and Linux Drive-free automatic recognition of cameras, microphones and speakers Compatible with Zoom, Lynch, Vidyo, Skype for business and etc.
Dimensions	100mm×62mm×27mm (L×W×H)
Accessories	Power adapter, USB2.0 cable, remote controller, 2 connection cables, user manual

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DISPOSAL OF YOUR PRODUCT

Municipal waste stream. Old appliances must be collected separately in order to optimise the recovery and recycling of the materials they contain and reduce the impact on human health and the environment. The crossed out "wheeled bin" symbol on the product reminds you of your obligation, that when you dispose of the appliance it must be separately collected. Consumers should contact their local authority or retailer for information concerning the correct disposal of their old appliance.