User Manual

Attentions

This manual introduces the functions, installations and operations for this device in details. Please read the manual carefully before installation and use.

1. To prevent damage to this product or any product connected to it, this product can only be used within the specified range.
·Do not expose the product to rain or moisture. To prevent the risk of electric shock, do not open the case. installation and maintenance should only be carried out by qualified technicians.
.Do not use the product beyond the specified temperature, humidity or power supply specifications.
2. Electrical Safety. Installation and use of this product must strictly comply with local electrical safety standards.
3. Avoid damage to the product caused by heavy pressure, strong vibration or immersion during transportation,storage and installation.
4.Install with Caution. Housing of this product is made of organic materials. Do not expose it to any liquid, gas or solids which may corrode the shell,do not power on before completing installation.
5. Do not Disassemble the Product without Permission. This product contains no parts which can be maintained by the users themselves. Any damage caused by dismantling the product by the user without permission is not covered by warranty.

Package list

1.VA500W
2.Remote controller
3.USB cable
4.Power adaptor

5.User manual &Certificate
6.Wireless Array Microphones
7.Extension speakers (optional)
8.RJ45 network cable(optional)

Product Description

Speakers
Lens
Indicator
Bracket
Microphone Array
Interface
Wireless Array Microphones （M51W/T1-T8）
Microphone Mute

VA500W is a wireless intelligent distributed conference system, suitable for various small, medium and large-sized conference rooms and training rooms. Distributed design is convenient to deploy in various venues. VA500W can be connected to two extension speaker units, and four to eight wireless array microphones. Three independent speaker units form a complete conference sound field. Make a more balanced overall spatial audio in a conferencing.The pickup radius of single array microphone can reach 3 meters. Using four wireless array microphones, which can better cover the overal meeting room.

Product Functions

·Supports USB communication (no need to Install driver)
·Supports wireless connection, up to eight wireless microphones (M51W)
·Supports Bluetooth function and can be connected to mobile phones and PCs to easily implement Bluetooth hands-free conference calls
·Supports wired connection to two extension speaker units
·Supports RS232 full-duplex communication, can be connected to external PTZ cameras and communicate with each other
·Supports one external audio input
·Built-in digital audio processing, supports echo cancellation, automatic gain control, depth noise reduction, de-reverberation algorithm
·The bracket of main speaker can be adjusted 135° to easily cope with deployment in various venues.
·Built-in 2*10W speakers, large bass diaphragm, powerful and transparent sound
·Supports infrared control, microphone mute, speaker, volume increase and decrease, external PTZ camera control, off-hook and on-hook, etc.
·Support full-duplex calls

Product Functions

·4K UHD image: Maximum Resolution 4K@30/25fps,2K@30fps
·AI Function: Face Detection,Smart Tracking,Auto-Framing
·Support high brightness wide dynamic range (HDR) and 0.1Lux low illumination
·120° wide-angle lens + 4x digital zoom,and support infrared remote control

Power supply method: Power adapterDC16V/3A

Connection method: USB, Bluetooth, speaker

Interface Specification

EXT1 POWER USB RS232 MIC IN HDMI EXT2
1 2 3 4 5 6 7
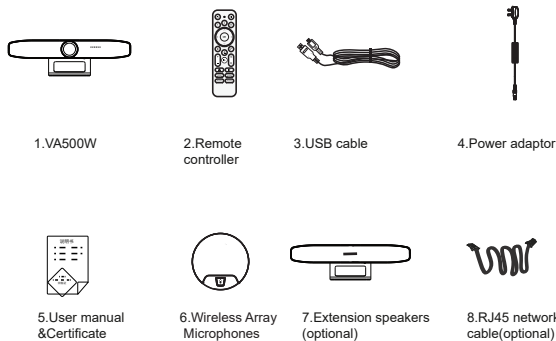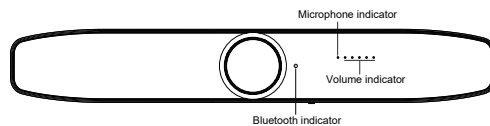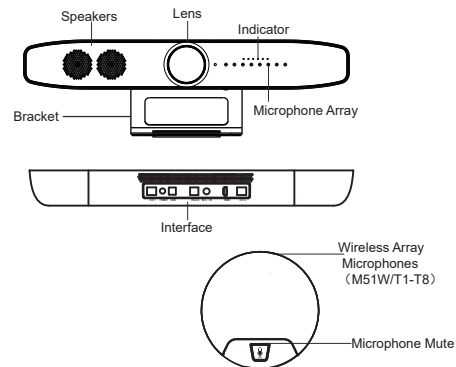
1.EXT1：extension speaker
2.POWER： power adaptor
3.USB：conference terminal,such as PC
4.RS232：DIN8 communication
5.MIC IN：audio input
6.HDMI：4K UHD Output
7.EXT2： extension speaker

Indicator Introduction

Microphone indicator
Volume indicator
Bluetooth indicator

1.Bluetooth indicator: The blue light flashes when Bluetooth is paired, always on when connected, and off when not connected.

2.Microphone indicator: When the microphone is working normally, the green light is always on; when the microphone is muted, the red light is always on.

3.Volume indicator: When the speaker is not muted, the green light displays the volume. When the speaker is muted, the green light flashes.

Introduction to Remote Control Buttons

Camera on/off
AI
Preset camera positions
Menu
Pan and til
OK
Bluetooth
Answer/end call
Microphone mute
Speaker volume up/down
Zoom in/out
Directional/omnidirectional voice pickup
Speaker mute
Scan
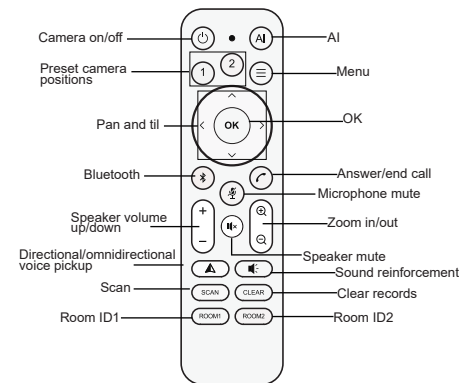Sound reinforcement
Clear records
Room ID1
Room ID2

Flgure1.1
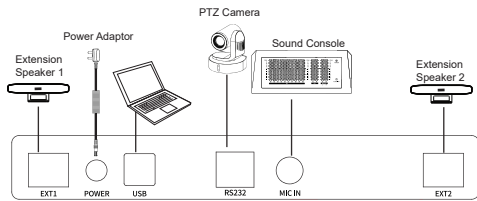
Remote control instructions:

1. The buttons description of the remote controller is shown in flgure1.1. lf the remote controller does not work, please check whether the positive and negative poles of the battery match and the battery life.
2.Pan and til buttons control the lens directions of the external PTZ camera.
3. Bluetooth button: turn on/off the bluetooth function.

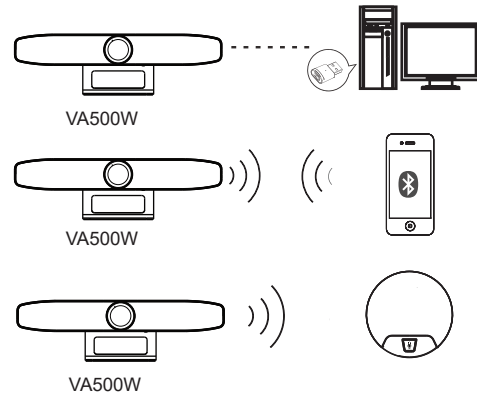## Introduction to Remote Control Buttons

4. Answer/end call button: In the case of Bluetooth connection, this button can answer and end the calls.
5. Microphone mute button: mute and unmute the microphone
6. Speaker volume up/down button: increase/decrease the speaker volume.
7. Zoom in/out button: control the zoom in/out of the external PTZ camera.
8. Speaker mute:mute and unmute the speaker.
9. When the extension wireless array microphones is failed to connect to VA500W, It can short press the scan button to freshen the connection.
10. Clear record button: long press this button for 5 seconds, clear the pairing history of the wireless array microphones.
11. Room ID 1 button: Long press this button for 3 seconds, setting the ID of the connected wireless array microphones. Prevent connection conflicts with another VA500W in a nearby room.
12. Room ID 2 button: Long press this button for 3 seconds, setting the ID of the connected wireless array microphones. Prevent connection conflicts with another VA500W in a nearby room.
13. Camera on/off button, turn on/off the external PTZ camera
14. AI button: turn on/off the AI function.
15. Buttons of presetting camera positions: preset the lens position of the external PTZ camera.
16.Menu button: this function is not supported.
17. OK button: this function is not supported.
18. button of directional/omnidirectional voice pickup: this function is not supported.
19. Voice reinforcement button: this function is not supported.

1.Wired Connection

Power Adaptor
PTZ Camera
Sound Console
Extension Speaker 1
Extension Speaker 2

EXT1   POWER   USB   RS232   MIC IN   EXT2

2.wireless connection

VA500W

VA500W

VA500W

1. Bluetooth connection instructions: Press the " ✳ " button and the blue light of the working indicator will flash to enter Bluetooth pairing mode. Turn on the Bluetooth function of the mobile phone and search for the corresponding Bluetooth name for pairing. After successful pairing, the blue light will stay on. Press the " ✳ " button again to turn it off. Bluetooth function (see Bluetooth adapter instructions for connecting using a Bluetooth adapter)

2. Wireless distance transmission tips: The longest wireless transmission distance between the VA500W and the wireless array microphone is 15 meters.

3. Instructions for optimal placement at the venue: Two adjacent wireless array microphones are separated by more than 2 meters for the best sound pickup effect.

4. Special notes on application scenarios: When two adjacent venues use the same model at the same time, the wireless channels of the wireless array microphones should be distinguished.

Example: Room 1 (M51W/T1-M51W/T4)

Room 2 (M51W/T5-M51W/T8)

(If you encounter any problems during use, please seek technical support)

Bluetooth Adapter(Optional)
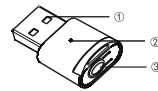
① USB Port (for power supply and USB audio connection)
② Adapter LED indicator
③ Adapter Control

LED Status Indicator and Keypad：

| Adapter LED Indicator	light flashing quickly(Flash once every 300ms)	The device searches for pairing status
	light flashing slowly (Flash every 1s)	The connection is successful
Adapter Control	Long press for 5 seconds	Clear pair record

Bluetooth pairing: After the adapter is plugged into the conference device, it will automatically enter the pairing.mode and the indicator will blink quickly. After the Bluetooth function of omnidirectional microphone is turned on, the indicator will blink slowly after the pairing is successful.
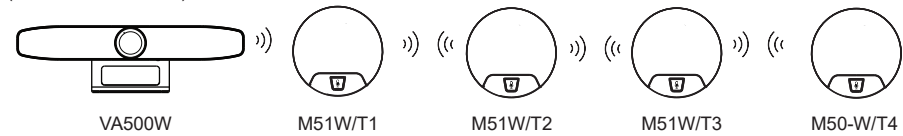
1.When the use environment range is 20-50sqm, VA500W can be used with 1-2 wireless array microphones (M51W/T1-M51W/T2).

VA500W   M51W/T1   M51W/T2
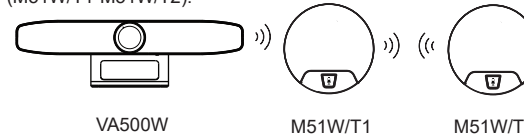
2.When the use environment range is 70-80sqm, VA500W can be used with 3 wireless array microphones (M51W/T1-M51W/T3).

VA500W   M51W/T1   M51W/T2   M51W/T3
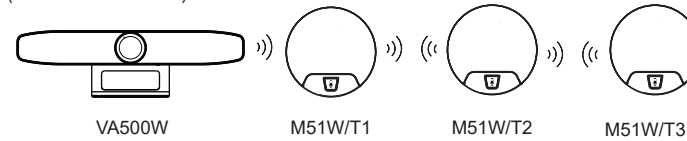
3.When the use environment range is 100-120sqm, VA500W can be used with 4 wireless array microphones (M51W/T1-M51W/T4).

VA500W   M51W/T1   M51W/T2   M51W/T3   M50-W/T4

4.When the use environment range is about 200sqm, according to actual environmental requirements, VA500W can be used with up to 8 wireless array microphones (M50-W/T1-M50-W/T8).

VA500W   M51W/T1   M51W/T2-M51W/T7   M51W/T8

Warranty

Repair of defects in materials and workmanship will be free of charge to retail customers purchasing a conferencing system, subject to or excluded from the terms listed below.

Warranty period

The warranty period is from the date of sale. During the warranty period, if the following conditions are found, the warranty will be void: the product is not stored or used in a reasonable manner or as recommended in the user manual, and is damaged or modified by any modification kits, components, or accessories not sold by the company , modification or use of this product by an agent not authorized by this company to repair defects or malfunctions covered by the warranty;

Warranty content

This warranty applies to the conference system and all standard accessories, but does not include paper items such as storage card packaging and manuals.

User-Generated Data

This warranty does not apply to loss or damage to user-generated data that may be stored in your product (including, but not limited to, product numbers, addresses).

Process for Obtaining Warranty Service

If the product purchased by the customer requires warranty, the customer can mail the device and the customer's proof of purchase (such as a copy of the sales invoice) to your equipment dealer. Before mailing the goods, we recommend that the customer back up the data in case of any trouble like lost or damaged during the repair process.