



# speechi SPE-VA460 Video Conferencing Systems User Manual

[Home](#) » [Speechi](#) » [speechi SPE-VA460 Video Conferencing Systems User Manual](#) 

## Contents

- [1 speechi SPE-VA460 Video Conferencing Systems](#)
- [2 Product Information](#)
- [3 Product Usage Instructions](#)
- [4 Graphic Symbols](#)
- [5 Attention](#)
- [6 Quick Start](#)
- [7 Product Overview](#)
- [8 Technical Specification](#)
- [9 How to Use](#)
- [10 Menu Setting](#)
- [11 Maintenance and Troubleshooting](#)
- [12 Documents / Resources](#)
- [13 Related Posts](#)



## speechi SPE-VA460 Video Conferencing Systems



## Product Information

This product is a camera that comes with various functions and features. It is important to read the user manual carefully to ensure proper usage and to avoid any potential danger. The manual provides detailed instructions on installation, maintenance, and troubleshooting. The product is designed to be used under specified conditions to

avoid any damage to the camera. It is important to follow the precautions mentioned in the manual, such as not exposing the product to rain or moisture, not opening the case to prevent electric shock, and not using the product beyond specified temperature, humidity, or power supply specifications. The manual also provides information on electrical safety, transportation, magnetic interference, and cleaning instructions.

## Product Usage Instructions




1. **Device Startup:** To power on the device, connect it to a power socket using the provided DC12V power adapter.
2. **Statue Indicator Light:** The manual does not provide specific instructions for the statue indicator light. Please refer to the user manual for more information on the meaning of different indicator lights and their functions.
3. **Interfaces:** The product has various interfaces for different purposes. Here are the interfaces mentioned in the manual:
  1. **USB:** For audio and video input/output.
  2. **HDMI:** For video output.
  3. **LINE IN:** For audio linear input.
  4. **LINE OUT:** For audio linear output.
  5. **Extension Mic:** For connecting an external microphone.
  6. **Power Jacket:** HEC3800 power socket for DC12V input and AC110V AC220V output.
4. **Quick Start:** The manual provides a quick start guide with various sections. These sections include:
  1. **Interfaces:** Describes the different interfaces available on the product.
  2. **Device Startup:** Provides instructions on how to power on the device using the DC12V power adapter.
  3. **Statue Indicator Light:** Does not provide specific instructions. Refer to the user manual for more information.
  4. **Video Output:** Does not provide specific instructions. Refer to the user manual for more information.
  5. **Audio Input:** Does not provide specific instructions. Refer to the user manual for more information.
  6. **Audio Output:** Does not provide specific instructions. Refer to the user manual for more information.
5. **Product Overview:** The manual provides an overview of the product, including its dimensions and supplied accessories.
6. **Product Features:** The manual highlights the features of the product.
7. **Technical Specification:** The manual provides technical specifications of the product.
8. **How to Use:** The manual provides instructions on how to use the product, including remote control usage and menu settings.
9. **Maintenance and Troubleshooting:** The manual provides information on maintenance and troubleshooting, including tips on how to maintain the product and troubleshoot common issues. Please refer to the complete user manual for detailed instructions on each section and topic mentioned above.

## Preface

- This manual introduces functions, installations and operations for this product in details. It is to ensure that the user can use the product properly and avoid danger while
- operating. Before using this product, please read the user manual carefully and keep it properly for future reference.

## Graphic Symbols

Description of graphic symbols used in this manual.

SYMBOLS	DESCRIPTION
	This symbol indicates that the words are clarification or supplement to this article.
	This symbol indicates that negligence of the instructions may lead to mishandling that may cause injury or property damage.
	This symbol indicates a risk that may result in damage to this machine or documents. Follow the instructions to avoid property damage.

## Attention

### Precautions

This product can only be used in the specified conditions in order to avoid any damage to the camera:

1. Do not expose the product to rain or moisture.
2. To prevent the risk of electric shock, do not open the case. Installation and maintenance should only be carried out by qualified technicians.
3. Do not use the product beyond the specified temperature, humidity or power supply specifications.
4. Please use a soft dry cloth to clean the camera. If the camera is very dirty, clean it with diluted neutral detergent; do not use any type of solvents, which may damage the surface.

### Electrical Safety

- Installation and use of this product must strictly comply with local electrical safety standards. Transportation
- Avoid any stress, vibration, or moisture during transportation, storage, installation and operation.

### Installation

1. Do not rotate the camera head violently, otherwise it may cause mechanical failure;
2. This product should be placed on a stable desktop or other horizontal surface. Do not install the product obliquely, otherwise it may display inclined image;
3. Ensure there are no obstacles within rotation range of the holder.
4. Do not power on before completely installation.

### Do not dismantle camera:

We are not responsible for any unauthorized modification or dismantling.

### Magnetic Interference

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

## Quick Start

### Interfaces

<b>INTERFACES</b>	
USB	USB audio video in out, type C
HDMI	HDMI video output
LINE IN	Audio linear input
LINE OUT	3.5mm linear output
Extension Mic	RJ45 extension mic
Power Jacket	HEC3800 power socket(DC12V), input AC110V-AC220V, output DC12V/2A

## Device Startup

### Power On

Connect device to power socket with DC12V power adapter.

## Statue Indicator Light

<b>INDICATOR LIGHTS</b>	
Green lights	Boot initialization in progress
continuously run left to right	In Bluetooth pairing mode
Blinking Blue Lights	Bluetooth pairing finished
Lights Turn Blue and Stay 3S	<b>Working statue</b> <ul style="list-style-type: none"> <li>• When turn off Auto-framing &amp; Voice tracking, all light turn green</li> <li>• When turn on Auto-framing &amp; Voice tracking, partial light turn green</li> </ul>
Solid Green Light	Standby statue(Device on without video)
Blinking Green	Microphone Muted
Light	Volume up/down
Solid Red Light	Partial light turns green according to the voice source

## Video Output

- **USB:** Connect device to Pcs through USB cable, and open the video software to select device to output.
- **HDMI:** Connect device to monitor through HDMI cable, and then select the correct input source on the monitor to output.

## Audio Input

- **Built-in audio:** It is default that the device pick up voice through built-in mics
- **Audio input through 3.5mm linear audio cable:** Connect to external pickup through 3.5mm audio cable

(When connecting to external pickup, audio in automatically switch into external pickup.)

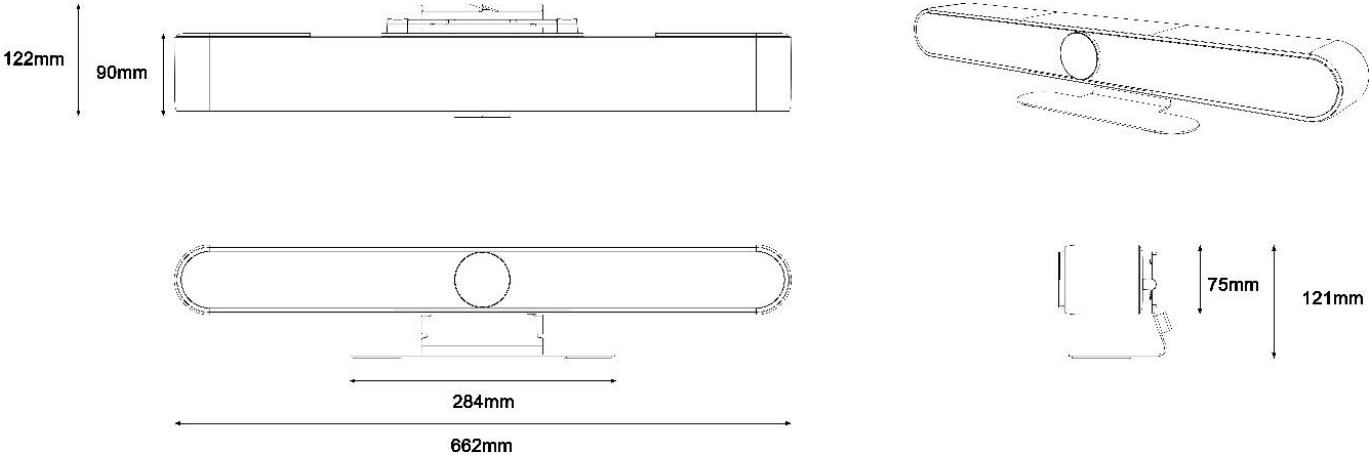
Audio Output

- **Built-in speaker:** It is default that device output voice through built-in speaker.
- **Audio output through 3.5mm linear audio cable:** Connect to external speaker through 3.5mm audio cable  
(When connecting to external speaker, audio out automatically switch into external speaker.)

Product Overview

Product Introduction

Dimensions



Supplied Accessory

When you unpack your box, please check that all the supplied accessories are included.

ITEMS	QUANTITY	● SUPPLIED / ○ OPTIONAL
All-in-one video bar	1	●
USB cable	1	●
Remote control (no battery included)	1	●
Quick start guide	1	●
Power adapter	1	●

Product Features

- With all-in-one design, this device has 4K UHD camera, microphone array, high fidelity speaker and electric privacy cover. Boasting powerful functions like face recognition, voice localization, voice tracking, and intelligent noise reduction, this product could automatically adjust the image size according to the number of participants to present the optimal frame. It can also detect the speaker position in real time and lock the target while having a close-up, which allows users to have hands-free operation.

This device has 6 array microphone composed of MEMS microphones, and it can also be matched with external cascading microphone and advanced 3A audio algorithm, you will have an exceptional full-duplex communication experience.

- **Integrated Design:** Built in 4K UHD camera, microphone array, high fidelity speaker and electric privacy cover  
Ultra HD: This device adopts 8 M high quality CMOS image sensor, able to capture 4K ultra HD image to present true-to-life image, bringing excellent image resolution and clarity.
- **Distortion-less Wide Angle Lens:** 120° wide angle with no distortion lens allows every participant is on the frame with no need to adjust the camera.
- **Automatic Privacy Cover:** Privacy cover will automatically close to ensure the privacy security.
- **Microphone Array:** Built in 6 array microphone enable speaker can be tracked in real time. THIS DEVICE break the distance limitation to provide virtual meeting as if you are there.
- **Built in Speaker:** Built in dual 10W high quality studio speaker, ensuring every participant can hear and be heard
- clearly.
- **Audio Processing:** The audio processing algorithm adopts high-fidelity 48K audio sampling rate, lossless audio transmission technology, supports AEC, AGC, ANS processing, bringing high-quality calls of 6 meters full duplex;
- **Auto Framing:** Built in face detection algorithm, automatically detect participant and provide optimal framing.
- **Bluetooth 5.0:** Connect mobile phone and other devices through Bluetooth to be used as Bluetooth speaker and microphone.
- **Low Noise and High SNR:** Low noise CMOS ensure the ultra SNR of image. The advanced 2D, 3D noise reduction technology further reduce the noise while ensuring the image clarity.
- **Powerful Compatibility:** Compatible with Windows7, windows10, Mac OS 10.10 or higher system, applicable to major cloud-based video conference platforms.

## Technical Specification

CAMERA		FOV	120° D / 106° H / 72° (V
	Lens	Iris	F2.0
		Focal Length	1.89mm
		Digital Zoom	10X
	Sensor	High quality CMOS sensor, effective pixel 8 million, 16:9	
	Image	Minimum Illumination	0.5Lux
		DNR	2D & 3D
		Focus	Auto/Manual
		BLC	On/Off
		Exposure	Parameter can be adjusted, and AE(Auto Exposure) is available
		Video Adjustment	Brightness, sharpness, saturation, contrast, white balance, gain, anti-flicker, low brightness compensation and other parameters can be adjusted.
		SNR	≥50dB

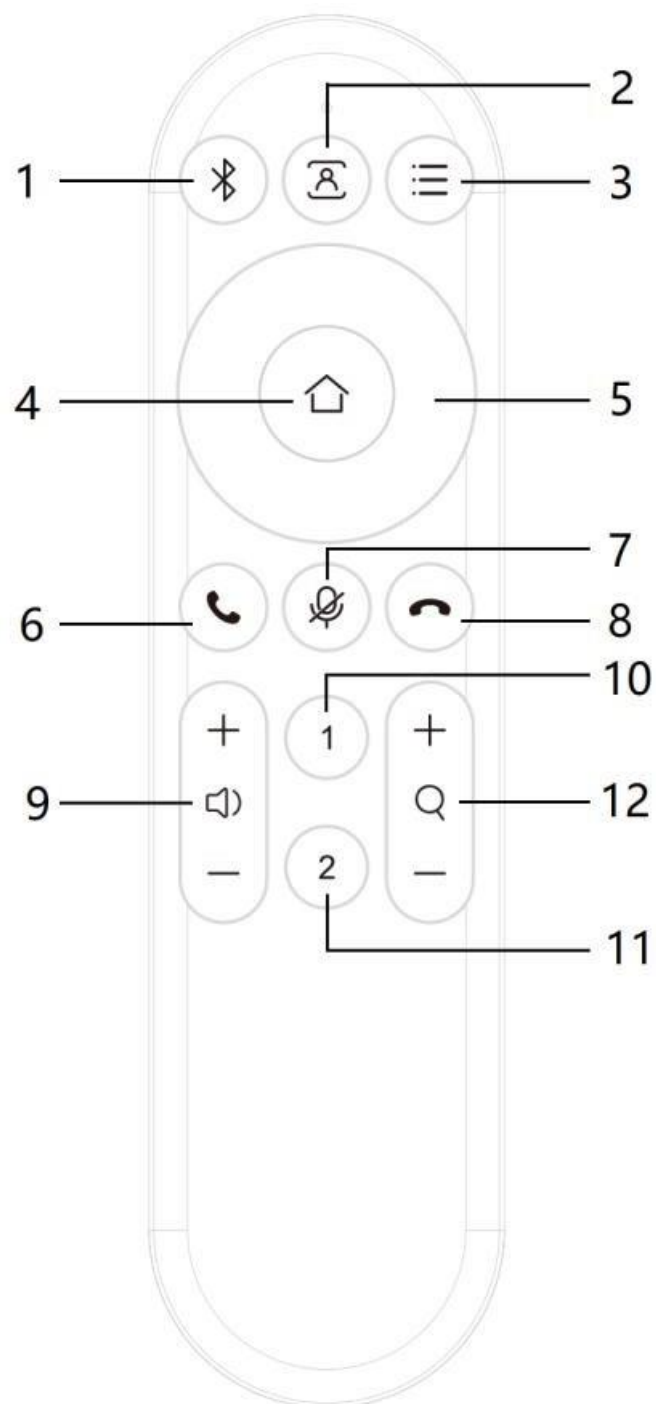
	<b>Video Format</b>	HDMI: 4KP30,1080P60 compatible downward USB: 4KP30,1080 P60 compatible downward	
	<b>Video Compression Format</b>	MJPEG, YUY2, H.264, H.265, NV12	
	<b>Privacy Cover</b>	Automatic privacy cover will close when no image output and open when there are image output.	
<b>AUDIO</b>	<b>Microphone</b>	Microphone	6x MEMS microphones
		Pickup Distance	6 meters
		Frequency Response	120Hz–16kHz
	<b>Speaker</b>	Speaker	Built-in dual speaker
		Voltage	2x10W
		Output Voice Pressure	80±3 dB 1.0M/1.0W
		Frequency Response	100Hz–20kHz
	<b>Audio Processing</b>	AEC, AGC, ANS	
<b>AI FUNCTION</b>	<b>Group Framing</b>	Automatically adjust the screen size according to the number of participants to present the best framing	
	<b>Speaker Tracking</b>	Track each speaker in real time, and ensure that the speaker is in the center of the screen.	
<b>REMOTE CONTROL</b>	<b>Remote Control</b>	Infrared remote control (No battery included)	
<b>PHYSICAL INTERFACES</b>	<b>USB</b>	USB3.0 audio video output interface, Type C Support UVC1.1, UAC1.0 and higher	
	<b>HDMI</b>	<ul style="list-style-type: none"> <li>HDMI video output interface</li> <li>HDMI also compatible with HDMI2.0 standard</li> </ul>	
	<b>LINE IN</b>	3.5mm audio line input interface (when an external pickup is connected, the audio input is automatically switched to the external pickup)	

	<b>LINE OUT</b>	3.5mm line output, can be connected to external speakers (when connecting to external speakers, the audio output will automatically switch to external speakers)
	<b>Expansion Mic Interface</b>	RJ45 interface, able to connect to expansion microphone.
	<b>Power Interface</b>	HEC3800 power socket (DC12V), input AC110V-AC220V output DC12V/2.5A
<b>INDICATOR</b>	<b>Bar-shaped Indicator</b>	While displaying the working status, it can also be lit where the speaker's voice comes from.
<b>BLUETOOTH</b>	<b>Bluetooth 5.0</b>	Can be connected to a mobile phone or other device via Bluetooth as a Bluetooth microphone and speaker.
<b>COMPATIBILITY</b>	<b>Available System</b>	Windows 7, Windows 8, Windows 10, Mac OS X, Linux, Android
<b>POWER SUPPLY</b>	<b>Method</b>	Supply power through power adapter
<b>WORKING CONDITIONS</b>	<b>Storage Temperature</b>	-10°C ~ +70°C
	<b>Storage Humidity</b>	20%~95%
	<b>Working Temperature</b>	-10°C ~ +50°C
	<b>Working Humidity</b>	20%~80%
	<b>Environment</b>	Indoor
<b>INSTALLATION METHOD</b>	<b>Walling Mount</b>	Comes with walling mount bracket. While mounting, the camera need to be as close to the wall as possible.
	<b>Desktop</b>	Comes with desktop mounting bracket
	<b>Installed on Monitor</b>	Bracket for monitor installation (optional)

## How to Use

### Remote Control





NB	FUNCTION	DETAILED DESCRIPTION
1	Bluetooth	<p>1. <b>Pairing mode:</b> Hold the Bluetooth button for 3S, then the blue light is flashing.</p> <p>2. <b>Pairing is successful:</b> If the connection with the mobile phone/laptop is successful, the light shift from flashing blue into solid green.</p> <p>3. <b>Disconnect:</b> In the Bluetooth connection state, hold the Bluetooth button for 5S to disconnect from the paired device.</p> <p><b>Note:</b> Bluetooth will be automatically turned off if no device is connected after 30s</p>
2	Auto-framing & Voice Tracking	Click the button, the upper left corner of the image will prompt "Auto Frame: ON" or "Auto Frame: OFF".
3	Menu	Click the menu button to enter the submenu for function setting and modification.
4	Home	<p>1. The "HOME button" in the menu is used for function confirmation, setting and modification.</p> <p>2. <b>Sleep state:</b> "HOME button" to wake up the device.</p>

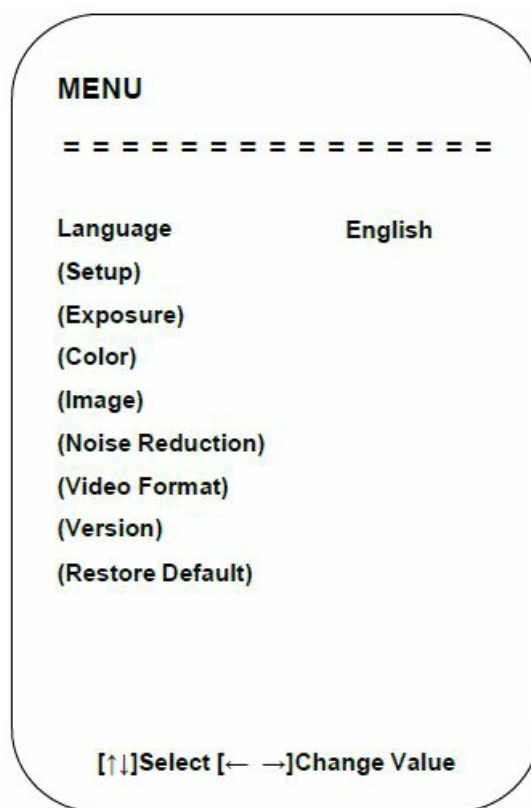
		3. After manual zooming, pressing the "HOME button" will restore the image to its original position.
5	Up, down, left, right	Click the directional buttons to adjust the position.
6	Answer Call	If the device is in Bluetooth mode, click the button to answer the incoming call.
7	Microphone muted	When the device is connected to Bluetooth and an incoming call is on the way, click the button to mute the microphone, then the device indicator light turns red. Click the button again to unmute.
8	Rejected the incoming call	When the device is connected to Bluetooth, click the button to reject the incoming call.
9	Volume up/down	Click the button to adjust the speaker volume.
10	Set/call out preset #1	Press and hold 3 seconds to set preset and short press it to call out the preset.
11	Set/call out preset #2	Press and hold 3 seconds to set preset and short press it to call out the preset.
12	Zoom in/out	Click the button to zoom in/out the image.

## Menu Setting

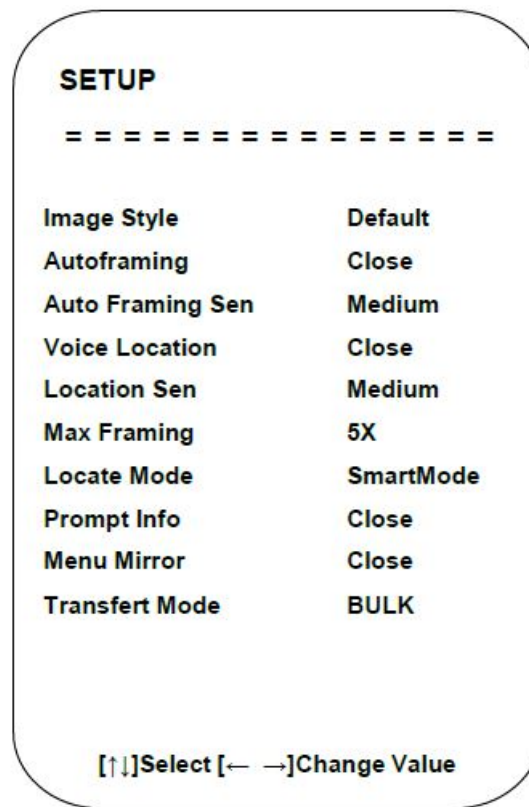
## Main Menu

Press menu key on remote control, and use arrow to point item to be selected.

1. **Language:** move arrow to (Language), and press ← → to change the option.



2. **Setup:** move arrow to (Setup), and press HOME to enter the setup interface.
  1. **Image Style:** Default / Standard / Clear / Bright / Soft
  2. **Auto Framing:** On / Off
  3. **Auto Framing Sen:** High / Medium / Low
  4. **Max Framing:** 3X / 5X / 10X
  5. **Voice Tracking:** On / Off
  6. **Voice Tracking Sen:** High / Medium / Low
  7. **Locate Mode:** Smart mode / Pan mode / Movie mode / Discussion mode
  8. **Prompt Info:** On / Off
  9. **Menu Mirror:** On / Off
  10. **Transfers Mode:** Bulk / Synchronization



3. **Exposure:** move arrow to (Exposure), and press HOME to enter exposure interface.
  1. **Exposure mode:** Auto / Manual / Shutter priority / Bright priority
  2. **Exposure Compensation (EV):** On / Off
  3. **Compensation Level:** -7 – 7( only available in EV mode on)
  4. **BLC:** On / Off ( only available in auto mode)
  5. **Anti-Flicker:** 50Hz, 60Hz, off (only available in auto, iris priority, bright priority mode)
  6. **Gain Limit:** 0 – 15 (only available in auto, iris priority, bright priority mode)
  7. **Dynamic Range:** 1 – 8, off
  8. **Shutter Priority:** 1/30, 1/50, 1/60, 1/90, 1/100, 1/120, 1/180, 1/250, 1/350, 1/500, 1/1000, 1/2000, 1/3000, 1/4000, 1/6000, 1/10000(only available in manual, and shutter priority mode)
  9. **Bright:** 0 – 23 (only available in bright priority)

EXPOSURE

=====

Mode	Auto
EV	OFF
BLC	OFF
Flicker	50Hz
G.Limit	6
DRC	4

[↑↓]Select [← →]Change Value

4. **Color:** move arrow to (Color), and press HOME to enter color page.

1. **WB Mode:** Auto / Manual / One-push / Specified temperature
2. **AWB Sensitivity:** High / Medium / Low (only available in auto mode)
3. **RG tuning:** -10~10
4. **Blue Tuning:** -10 à 10
5. **Saturation:** 0~127
6. **Hue:** 0~8

COLOR

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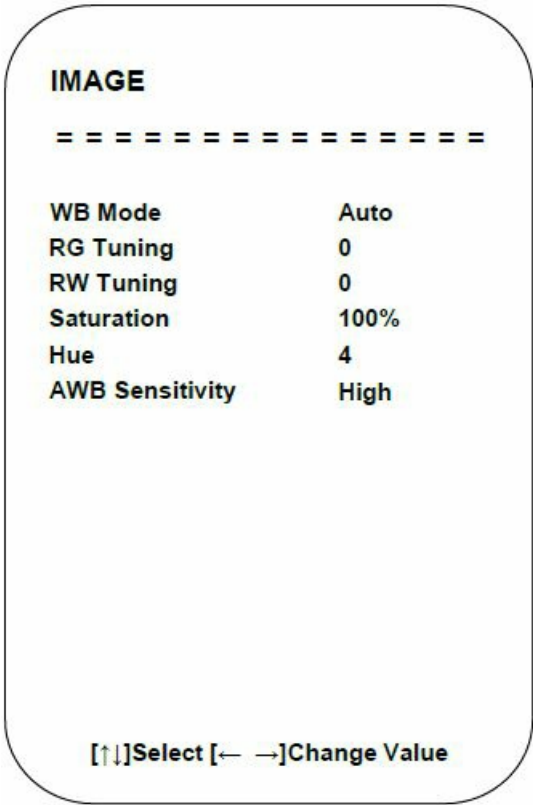
WB Mode	Auto
RG Tuning	0
RW Tuning	0
Saturation	100%
Hue	4
AWB Sensitivity	High

[↑ ↓]Select [← →]Change Value

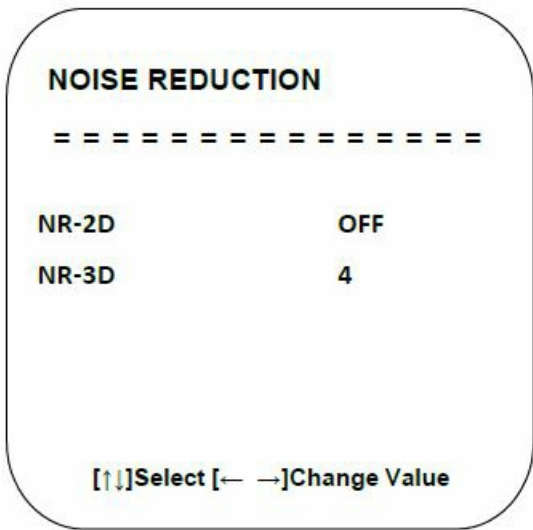
5. **Image:** move arrow to (Image), and press HOME to enter image page.

1. **Luminosity:** 0~14

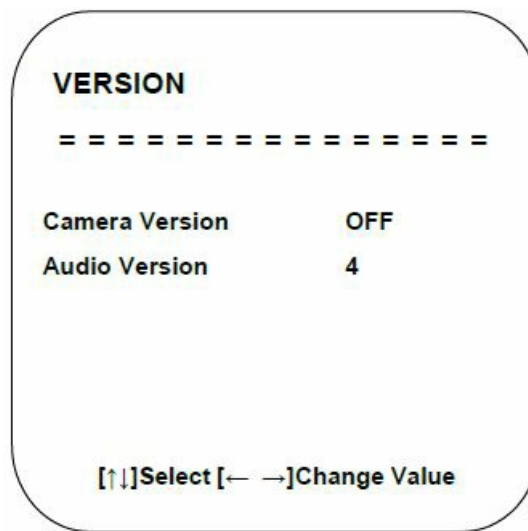
- 2. **Contrast:** 0~ 14
- 3. **Sharpness:** 0~ 15
- 4. **Flip-H:** On / Off
- 5. **Flip-V:** On / Off
- 6. **B&W-Mode:** Color / B&W
- 7. **Gamma:** Default, 0.34, 0.39, 0.47, 0.50
- 8. **Low-Light Mode:** On / Off



- 6. **Noise Reduction:** move arrow to (Noise Reduction), and press HOME to enter Noise Reduction page.
  - 1. **2D NR:** Auto, manual 1~7
  - 2. **3D NR:** Off, 1~8

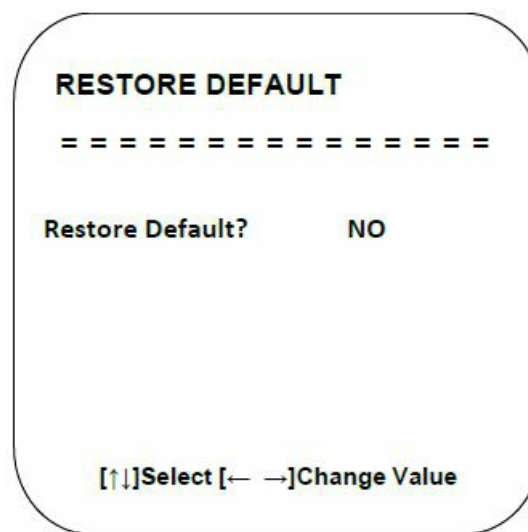


- 7. **Version:** move arrow to (Version).



8. **Restore Default:** move arrow to (Restore Default), and press HOME to enter Restore Default page.

1. **Restore Default:** Yes / No (color style and video format cannot be restored)



## Maintenance and Troubleshooting

### Maintenance

1. If the camera will not be used for a long time, please turn off the power switch.
2. Use a soft cloth or lotion-free tissue to clean the camera body.
3. Use a soft dry lint-free cloth to clean the lens. If the camera is very dirty, clean it with a diluted neutral detergent. Do not use any type of solvent or harsh detergent, which may damage the surface.

### Troubleshooting

#### 1. No image

1. Check whether the power cord is connected, voltage is OK, POWER lamp is lit
2. Check whether the camera can “self-test” after startup
3. Check that the rotary dial on rear work normally
4. Check that the HDMI cable is connected correctly

#### 2. Image is shaky or vibrating

Check that the video output, video monitor cable work normally. 3) Remote controller does not control the camera

1. Check that the batter of remote control is placed properly and full of power
2. Check that the working statue of the device is normal
3. Check whether the menu has been exited. Only after exiting the menu, the remote control can work normally; if the webpage outputs an image, the menu will not be displayed, then the menu will automatically exit and remote control can work on camera after 30 seconds without any operation.


## COPYRIGHT NOTICE

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## Documents / Resources

	<p><a href="#">speechi SPE-VA460 Video Conferencing Systems</a> [pdf] User Manual SPE-VA460 Video Conferencing Systems, SPE-VA460, Video Conferencing Systems, Conferencing Systems</p>
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