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PULSEAUDIO PA-CVB1 Collaboration Video Bar User Manual

**COLLABORATION
VIDEO BAR**

PART NUMBER PA-CVB1
All-in-one design with integrated camera, microphone and speakers
vanco1.com | 800.626.6445

Contents

PA-CVB1 Collaboration Video Bar

DEAR CUSTOMER

Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

THIS PRODUCT IS 100% INSPECTED AND TESTED IN THE UNITED STATES TO VERIFY PERFORMANCE PARAMETERS.

WARNING

1. Do not install or place this unit in a built-in cabinet, or other confined space without adequate ventilation.

2. To prevent risk of electrical shock or fire hazard, due to overheating do not obstruct unit's ventilation openings.

3. Do not install near any source of heat, including other units that may produce heat.

4. Do not place unit near flames.

5. Only clean unit with a dry cloth.

6. Unplug unit during lightning storms or when not used for an extended period of time.

7. Protect the power cord from being walked on or pinched, particularly at the plugs.

8. Use unit only with accessories specified by the manufacturer.

9. Refer all servicing to qualified personnel.

FEATURES

The PulseAudio PA-CVB1 Collaboration Video Bar is an all-in-one, compact design with crystal clear audio with 4K video, perfect for any conference room type application. Advanced AI algorithms allow for multiple framing technologies such as facial detection, sound positioning, and voice tracking to automatically frame meeting participants and adjust focus to always present the best view. Built-in 6-mic array voice tracks and zooms camera to any person who is speaking. Plug and play USB 3.0 connectivity, along with a 3.5mm stereo audio input allows for quick and seamless integration to any video conferencing equipment or software anywhere, and anytime! A truly ideal solution for all small and medium sized collaboration spaces.

Collaboration Video Bar

Part # PA-CVB1

- All-in-one design with integrated camera, microphone, and speakers
- Built-in 6-mic array to achieve voice tracking function and real-time tracking of each speaker, allowing remote participants to break the limitation of distance and create an immersive, face-to-face experience
- Built-in high-quality speakers ensures every participant can hear clearly
- Audio processing algorithms adopts high-fidelity 48K audio sampling rate, lossless audio transmission technology, while supporting AEC, AGC, ANS processing
- Built-in face detection algorithm, which automatically detects participants and provides ideal framing and view
- High-quality CMOS image sensors, collects and presents clear and lifelike ultra-high definition 4K videos
- Equipped with a 120 °super wide view angle and non-distortion lens to easily cover all participants in the meeting room
- Low-noise CMOS effectively guarantees the ultra-high signal-to-noise ratio of the picture to further reduce noise while ensuring image clarity
- Compatible with Windows7, Windows10, Windows11, and Mac OS 10.10 or higher operation systems
- Easy to use with the most popular video conferencing platforms, including but not limited to Microsoft Teams, Skype for Business, Zoom, GoToMeeting, and more

PACKAGE CONTENTS

- (1) PulseAudio PA-CVB1 Video Bar
- (1) Remote Control
- (1) 12V, 2A Power Adapter and power lead cable
- (1) 5M USB 2.0 Cable
- (1) Wall Bracket
- Mounting Screws (4) and Anchors (4)
- (1) Product Manual

SPECIFICATIONS

Image Sensor…………………………………………………8 million pixel high-quality CMOS image sensor
Camera Angle………………………………………………120°(D)/107.2°(H)/74.1°(V)
Zoom…………………………………………………………..5x digital zoom
Video Output…………………………………………………Up to 4K
AI Smart Framing…………………………………………..Face detection & sound location & voice tracking
Microphone Type …………………………………………..6-mic array
Pickup Distance …………………………………………….6 meters
Processing……………………………………………………AEC & AGC & ANS & Sound source localization
Speaker …………………………………………………….2*7W
Remote Control ……………………………………………..Infrared remote control
USB Interface………………………………………………..1*USB3.0 (Type-B), compatible with USB2.0
Audio Port …………………………………………………..1*3.5mm linear input
Power Connector …………………………………………..HEC3800 power socket (DC12V, 2A)
Wall Bracket ………………………………………………..Standard wall mount bracket
Dimensions …………………………………………………..23.54″ x 3.39″ x 3.05″ inches (598 x 86 x 77.5mm)
Weight…………………………………………………………6.76 lbs (3.07 kg)

PANEL DESCRIPTIONS

1. Speakers	5. Power Jack
2. Camera	6. 3.5mm Stereo Audio Line Input
3. Built-in Mic	7. USB B 3.0 Port
4. Power Switch	8. Built-in stand/wall mounting bracket location

CONNECT AND OPERATE

1. Connect the provided power supply, and power on the video bar
2. Use the provided USB cable or other known working USB cable to connect the video bar, to a computer, video conference terminal, or other USB input device
3. Open the video conference software
4. Select PulseAudio options available for video/camera, speaker, and microphone devices within the software settings

REMOTE

Standby On/Off
Volume Down
Zoom Out
Home
Preset Setting
Mute
Answer Call

Auto Framing & Voice Tracking
Volume Up
Zoom In
Direction Button
Menu
Hang Up

0-9 Number Buttons
Short press can call back corresponding preset
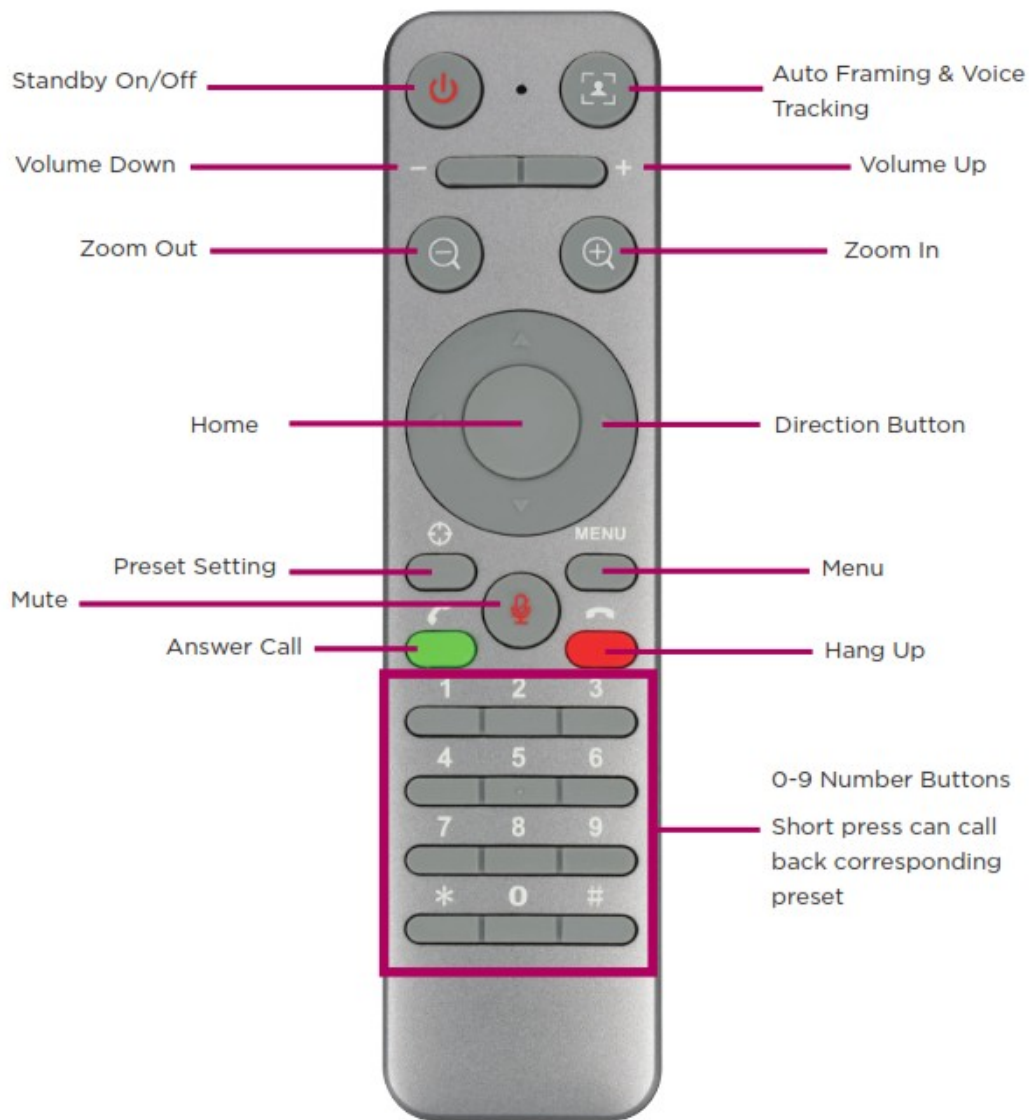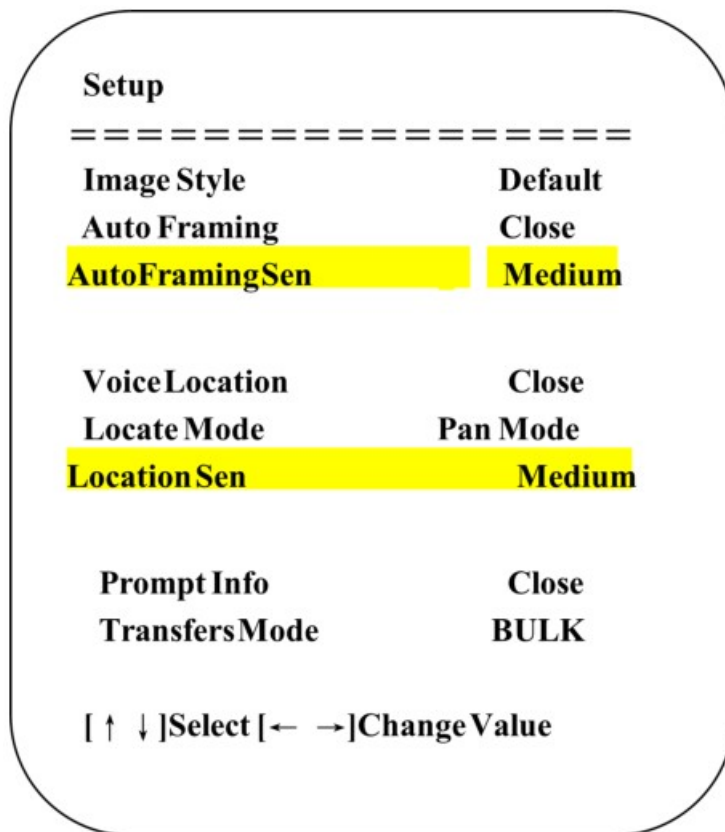
MENU SETTINGS

MENU
=================

| Language | English |

(Setup)
(Exposure)
(Color)
(Image)
(Noise Reduction)
(Version)
(Restore Default)

[↑ ↓]Select [← →]Change Value

- Language: Move the pointer to (Language) in the main menu, press to select the language
- Setting: Move the pointer to (Settings) in the main menu, press [HOME] to get into the exposure page as shown below

```
Setup
================
Image Style            Default
Auto Framing           Close
AutoFramingSen         Medium


VoiceLocation            Close
Locate Mode           Pan Mode
LocationSen              Medium


Prompt Info              Close
TransfersMode            BULK

[ ↑ ↓ ]Select [← →]Change Value
```

- Image Style: Default/Standard/Clear/Bright/Soft
- Auto Framing: On/off
- Auto Framing Sen: High/Medium/Low
- Voice Locating: On/off
- Switching Mode: Pan mode/movie mode/meeting mode/smart mode
- Location Sen: High/Low/Medium
- Prompt Info: On/off
- Transmission Mode: Bulk/Synchronization

In the main menu, move the pointer to (Exposure), and press [HOME] to enter the exposure page, as shown below.

```
EXPOSURE
================
   Mode              Auto
   EV                OFF
   EV Level          0
   BLC               OFF
   Flicker           50Hz
   G.Limit           6
   DRC               4


   [ ↑  ↓ ]Select [←  →]Change Value
```

- Mode: Automatic, manual, shutter priority, brightness priority
- EV: On/off (only valid in auto mode)
- Backlight: On/Off (only valid in auto mode)
- Anti-flicker: Off, 50Hz, 60Hz (only valid in auto, aperture priority, brightness priority mode)
- Gain Limit: 0~15 (only valid in auto, aperture priority, brightness priority mode)
- Dynamic Range: 1~8, off
- 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 valid in manual and shutter priority mode)
- Brightness: 0~23 (only valid in brightness priority mode)

Move the pointer to (Color) in the main menu, and press [HOME] to get into the color page, as shown below.
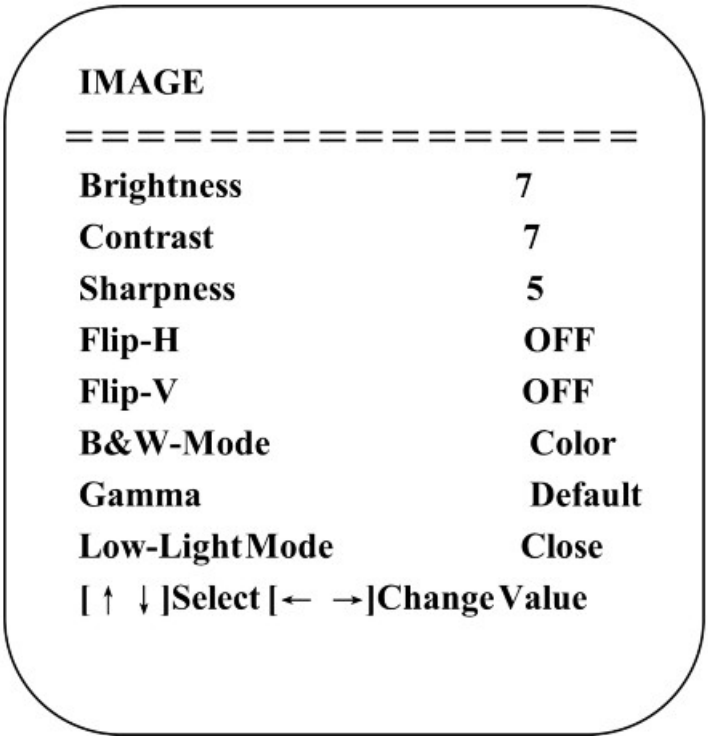
```
COLOR
=================
   WB Mode              Auto
   RG Tuning            -2
   BG Tuning            6
   Saturation           100%
   Hue                  4
   AWBSensitivity       High


   [ ↑  ↓ ]Select   [←  →]Change Value
```
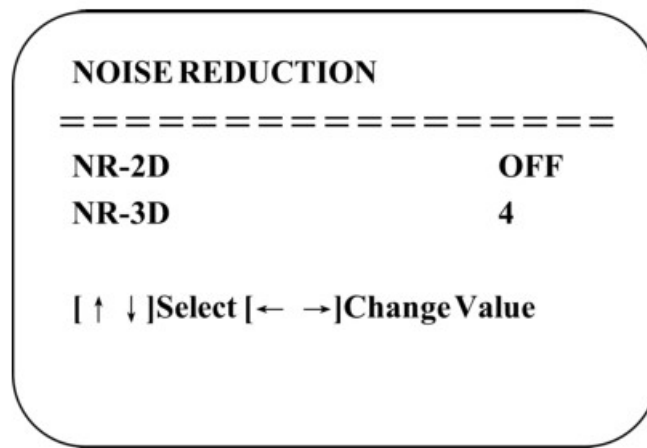
- Saturation: 60%, 70%, 80%, 90%, 100%, 110%, 120%, 130%, 140%, 150%, 160%, 170%, 180%, 190%, 200%
- WB Mode: automatic, manual, white balance, a key, specified color temperature
- AWB Sensitivity: high, medium, low (valid only in automatic mode)
- Chroma(Hue): 0~8
- BG Tuning: 0-36
- RG Tuning: 0-36

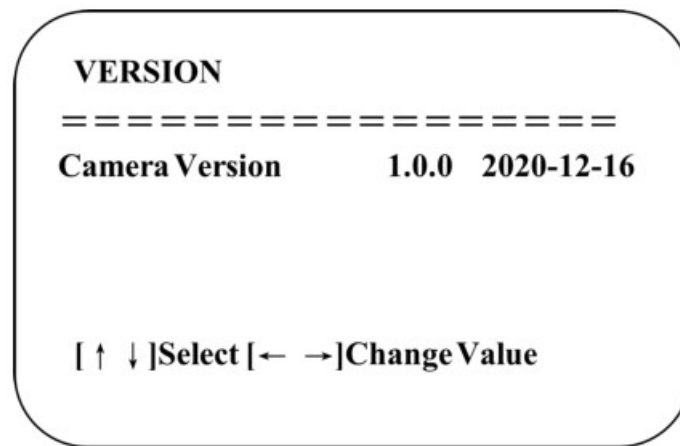Move the pointer to (Image) in the main menu, and press [HOME] to get into the image page, as shown below.

```
IMAGE
================
Brightness          7
Contrast            7
Sharpness           5
Flip-H              OFF
Flip-V              OFF
B&W-Mode            Color
Gamma               Default
Low-Light Mode      Close
[ ↑  ↓ ]Select [←  →]Change Value
```

- Brightness: Settable 0~14 ………………………….
- Contrast: 0~14………………………………………………
- Sharpness: 0~15
- Flip-H: On/Off ……………………………………………..
- Flip-V: On/Off…………………………………………………
- B&W Mode: Color,Black and White
- Gamma Curve: Default.0.34.0.39.0.47.0.50
- Low-light Mode: On/Off

Move the pointer to (Noise Reduction) in the main menu, press [HOME] to get into the noise reduction page, as shown below.

```
  ┌─────────────────────────────────────┐
  │                                     │
  │   NOISE REDUCTION                   │
  │   ================================  │
  │   NR-2D                      OFF    │
  │   NR-3D                      4      │
  │                                     │
  │                                     │
  │   [ ↑ ↓ ]Select [← →]Change Value   │
  │                                     │
  └─────────────────────────────────────┘
```
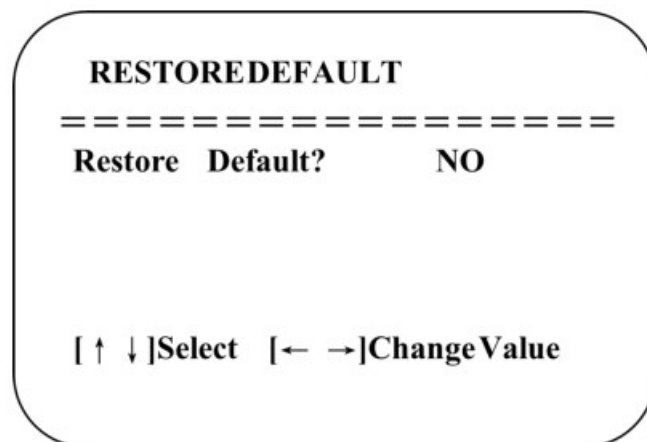
- 2D Noise Reduction: Auto, Off, 1-7
- 3D Noise Reduction: Off, 1-8 Move the pointer to (version) in the main menu.

Move the pointer to (Reset) in the main menu.

```
  ┌─────────────────────────────────────┐
  │                                     │
  │   VERSION                           │
  │   ================================  │
  │   Camera Version      1.0.0  2020-12-16 │
  │                                     │
  │                                     │
  │   [ ↑ ↓ ]Select [← →]Change Value   │
  │                                     │
  └─────────────────────────────────────┘
```

Move the pointer to (Reset) in the main menu, press [HOME] to get into the reset page, as shown below.
Note: color, style, and video format will not be restored to factory default.

```
  ┌─────────────────────────────────────┐
  │                                     │
  │    RESTORE DEFAULT                  │
  │   ================================  │
  │    Restore  Default?         NO     │
  │                                     │
  │                                     │
  │    [ ↑ ↓ ]Select  [← →]Change Value │
  │                                     │
  └─────────────────────────────────────┘
```

TROUBLESHOOTING

No picture for USB

1. Check whether the USB cable of the device is connected well and whether the power indicator is on

2. Check whether the device is normal after power-off and restart

3. Restart the computer to check whether it is normal

4. Check whether the video output cable is normal

5. Check whether the device is recognized normally, uninstall the device when it is displayed in the device manager that cannot be recognized normally, and reload it

Flickering and intermittent image issues

1. Check whether the USB cable is normal

2. Check whether the USB cable of the device is well connected

SAFETY AND NOTICE

The PA-CVB1 has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipment, the PA-CVB1 should be used with care. Please read and follow the safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

- Follow all instructions and warnings marked on this unit
- Do not attempt to service this unit yourself, except where explained in this manual
- Provide proper ventilation and air circulation and do not use near water
- Keep objects that might damage the device and assure that the placement of this unit is on a stable surface
- Use only the power adapter and power cords and connection cables designed for this unit
- Do not use liquid or aerosol cleaners to clean this unit
- Always unplug the power to the device before cleaning

TECHNICAL SUPPORT

In case of problems, please contact Vanco Technical Support by dialing 1-800-6266445. You can also email technical support issues to **techsupport@vanco1.com**. When calling, please have the Model Number, Serial Number (affixed to the bottom of the unit) and Invoice available for reference during the call. Please read this Instruction Manual prior to calling or installing this unit, since it will familiarize you with the capabilities of this product and its proper installation. All active electronic products are 100% inspected and tested to insure highest product quality and trouble-free installation and operation. The testing process utilizes the types of high-definition sources and displays typically installed for entertainment and home theatre applications. For additional information please visit www.vanco1.com.

LIABILITY STATEMENT

Every effort has been made to ensure that this product is free of defects. The manufacturer of this product cannot be held liable for the use of this hardware or any direct or indirect consequential damages arising from its use. It is the responsibility of the user and installer of the hardware to check that it is suitable for their requirements and that it is installed correctly. All rights are reserved. No parts of this manual may be reproduced or transmitted by any form or means electronic or mechanical, including photocopying, recording or by any information storage or retrieval system without the written consent of the publisher. Manufacturer reserves the right to revise any of its hardware and software following its policy to modify and/or improve its products where necessary or desirable. This statement does not affect the legal rights of the user in any way.

LIMITED WARRANTY

With the exceptions noted in the next paragraph, Vanco warrants to the original purchaser that the equipment it manufactures or sells will be free from defects in materials and workmanship for a period of two years from the date of purchase. Should this product, in Vanco's opinion, prove defective within this warranty period, Vanco, at its option, will repair or replace this product without charge. Any defective parts replaced become the property of Vanco. This warranty does not apply to those products which have been damaged due to accident, unauthorized alterations, improper repair, modifications, inadequate maintenance and care, or use in any manner for which the product was not originally intended.

Items integrated into Vanco products that are made by other manufacturers, notably computer hard drives and liquid crystal display panels, are limited to the term of the warranty offered by the respective manufacturers. Such specific warranties are available upon request to Vanco. A surge protector, power conditioner unit, or an uninterruptible power supply must be installed in the electrical circuit to protect against power surges.

If repairs are needed during the warranty period the purchaser will be required to provide a sales receipt/sales invoice or other acceptable proof of purchase to the seller of this equipment. The seller will then contact Vanco regarding warranty repair or replacement.

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Documents / Resources

PULSEAUDIO PA-CVB1 Collaboration Video Bar [pdf] User Manual
PA-CVB1 Collaboration Video Bar, PA-CVB1, Collaboration Video Bar, Video Bar, Bar

References

- ▼ **Vanco International | Leading Supplier of Electronic Accessories**
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