



EAGLE ZDP52
Three-way Column Loudspeaker
User Manual

Caution

Before use, be sure to read this section and use it correctly. The following precautions are important safety-related information, so be sure to observe them. After reading them, be sure to keep them in a safe place so that you can access them at any time.

Hiring a professional

Aerial workers must have appropriate skills and experience.

If unskilled and inexperienced personnel work at height, they may fall and cause injury.

Cautions for working at height

Be sure to observe the following rules.

Failure to comply with the following rules may cause the speaker to fall and cause injury if the suspension cable or sling falls off or breaks.

Suspension cables and slings must be strong enough for heavy loads.

The parts of the suspension cable and sling must be effectively fixed with the speaker installation.

All parts (shells, fittings, screws, etc.) must not be deformed, cracked, corroded and other phenomena. The screws used for installation must be attached to the overhead bracket.

Confirmation of the strength of the installation site

It must be installed in a place that has sufficient strength to withstand the full weight of the speakers, including the mounting bracket. If the strength is not sufficient, the speaker may fall and cause injury.

Installation must be carried out by two or more people.

If one person performs the installation, the speaker may fall and cause injury.

Attention

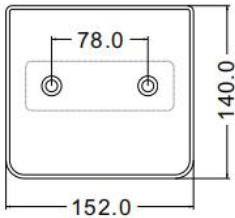
If the speaker is used in a ceiling suspension type, use mounting parts that can adequately withstand the load.

Also, be sure to use screws that match the ceiling material to tighten the mounting parts on hard surfaces.

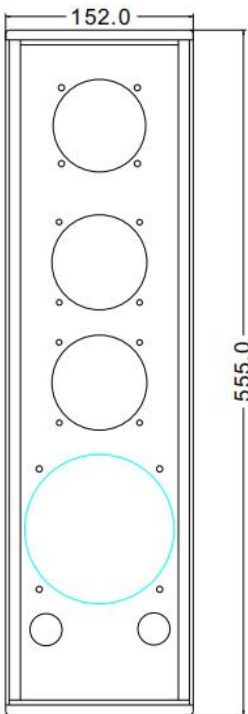
TABLE OF CONTENTS

Chapter 1 Size	1
Chapter 2 Hanging	2
Chapter 3 Specification Parameters	2
Chapter 4 Troubleshooting and checking	3
Chapter 5 Dante POE amplifier module	4
5.1 Introduction	4
5.2 Specification	5
Chapter 6 Interface	6
Chapter 7 Dante POE amplifier module user's guide	7
7.1 Steps for first time use	7
7.2 PC Main interface of the software	8
7.3 Menu bar and status bar	8
7.4 Equalizer (5 bands)	9
7.5 Limiter	10
7.6 High-pass and low-pass filters	10
7.7 Temperature monitoring	11
7.8 Level display	11
7.9 Output gain and mute	12
7.10 Treble boost and bass boost	12
Chapter 8 Packing List	13

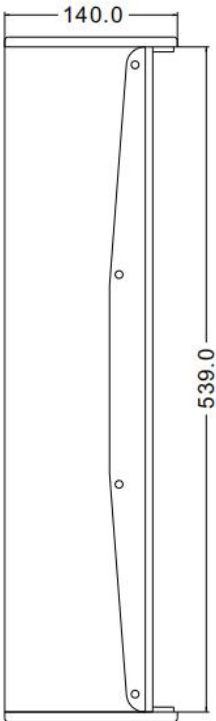
Chapter 1 Size



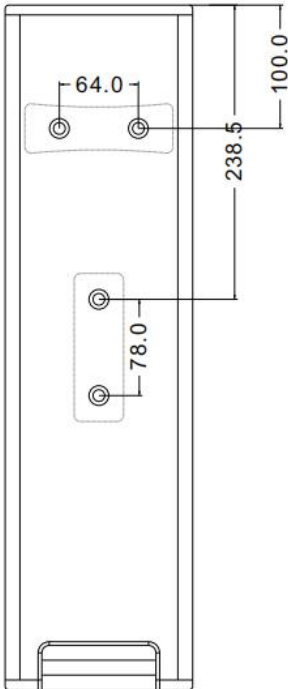
Top view



Front view

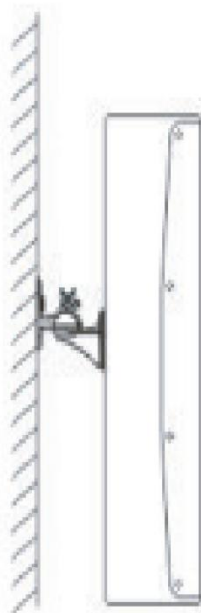


Right view



Rear view

Chapter 2 Hanging

**Top hanging****Rear hanging****Rear hanging**

Chapter 3 Specification Parameters

Frequency Response	80Hz - 20KHz
Drivers	LF:1X5.25"Bass MF:2X3.25"Midrange HF:1X3.25"Treble
Rated Power	30W
Characteristic Sensitivity Level	85dB±3dB
Maximum Sound Pressure Level	100dB
Nominal Impedance	8Ω
Directivity	H/V 90°×90°(±10°)

Power supply	802.3af, 802.3at, 802.3bt PoE power supply
DSP processing	Gain control, mute control, level display, temperature display, 5-band parametric equalizer, and limiter
Enclosure Plate	High Density MDF Board
Enclosure painting process	Black color, water-based paint spraying
Protective netting process	Acoustically transparent special mesh with inner round hole steel mesh
Connection Interface	1 × RJ45
Hanging method	Rear hanging
Product Dimensions (H × W × D)	555mm × 140mm × 152mm
Net Weight	5.5kg
Package Dimensions(L × W × H)	610mm × 247mm × 220mm
Gross Weight	6.5kg

Chapter 4 Troubleshooting and checking

If your speakers are not working properly, please check the following before requesting after-sales service:

Problems	Possible causes of failure	Solutions
No sound from speakers	<ol style="list-style-type: none"> 1. The speaker cable is not connected to the input connector on the back of the speaker; 2. The amplifier is turned on or off. 3. Whether the audio 	<ol style="list-style-type: none"> 1. Refer to the "Wiring Diagram" to check for proper connection; 2. Ensure that all source equipment and power amplifiers are powered on and functioning properly.

	equipment is turned on.	
Abnormal speaker sound	<ol style="list-style-type: none">1. Connection error;2. Speaker malfunction;3. Poor contact.	<ol style="list-style-type: none">1. Refer to the "Wiring Diagram" to check for proper connection;2. Check for oxidation and looseness of the speaker wire rear socket;3. Check if the audio source is normal, and if the levels of each level are properly matched.

Chapter 5 Dante POE amplifier module

5.1 Introduction

This is a POE power supply, Dante to analog signal output, built-in DSP processing, full network digital amplifier module products, generally built into the speaker. Can be adjusted through the PC software visualization, to meet the different needs for sound quality, the use of Dante network protocol audio transmission from the transmission line interference, high fidelity, no delay characteristics. The use of network transmission, engineering wiring is simple, can make the installation of amplifiers and speakers more convenient, safe and reliable new products.

POE power supply: support IEEE 802.3af/at/bt standards respectively;

DSP processing functions: including have scene save, scene import, scene export, reset, 5-band equalizer, high-pass filter, low-pass filter, treble enhancement, bass enhancement, limiter, gain and so on.

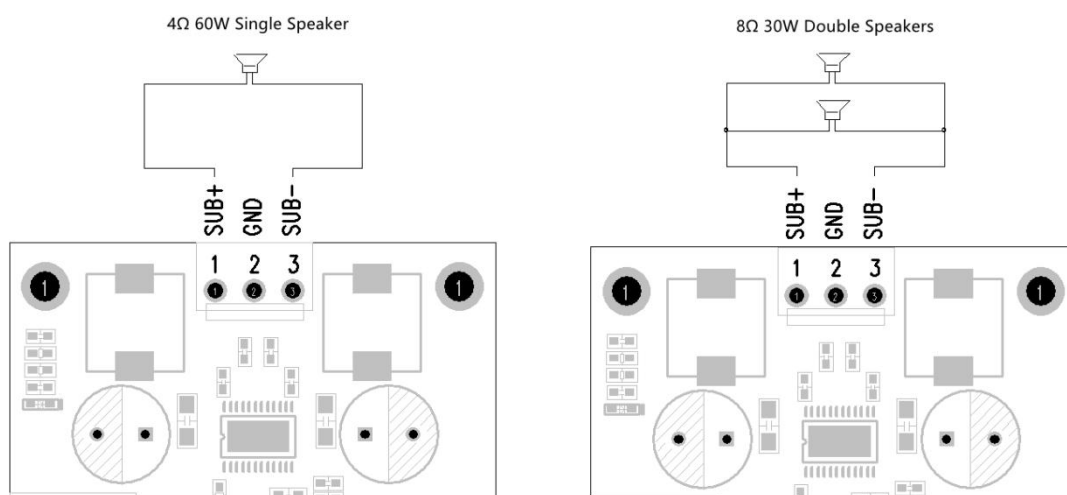
5.2 Specification

Input Connector	10/100M RJ45, DANTE input for 1 audio channel, need to support POE power supply, POE specification compatible with 802.af/at/bt standard, connect with CAT5 or higher network cable
Output Connector	1, 3PIN 4.0mm terminal block (positive, negative, ground)
Output Power	Peak Power: 100W @ 4-ohm Rated power: 60W @ 4-ohm
Frequency Response	20Hz-20kHz
THD-N	<0.3%
Signal-to-Noise Ratio S/N	>100dB
Background Noise	>85dB
Protection Function	Over-current protection/over-temperature protection/overload protection/short circuit protection
Power Efficiency	>85%
Heat Dissipation	20Hz~20KHz,±0.2dB
Operating Temperature	-10℃ ~ +40℃
Dimension(LxWxH)	148x68x20mm
Weight	185g

Chapter 6 Interface



Audio Interface Description:



Chapter 7 Dante POE amplifier module user's guide

7.1 Steps for first time use

Connect the Dante POE amplifier module to a POE-enabled Dante network switch, and then realize network-wide Dante device discovery through the Dante Controller software for network-wide audio routing configuration.

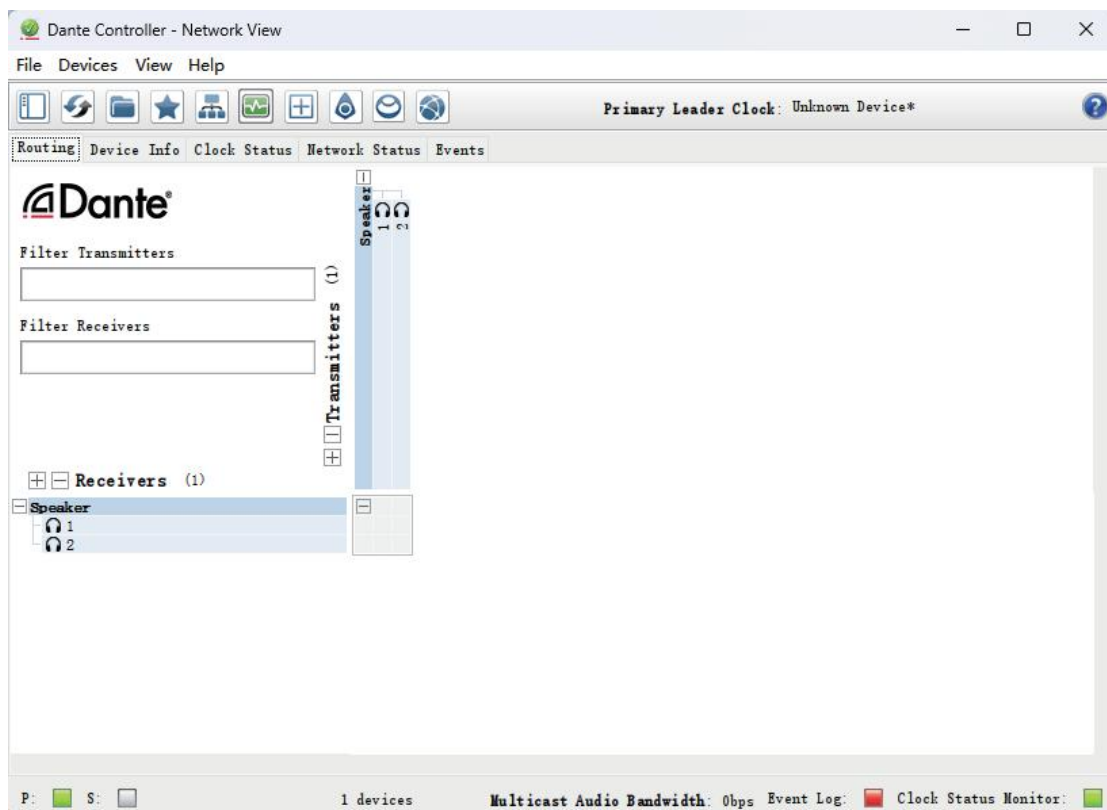
In a Dante audio network, the Dante Controller software is required to set up the routing of the various signals accessing the processor. It can realize 1-to-1, 1-to-N mapping operation from input to output within Dante network.

Note: 1, Dante can not run in the Wi-Fi wireless connection environment, is dependent on a reliable and secure wired network environment to transmit perfect audio;

2, Dante Controller software corresponds to the platform of Windows 7, Windows 10, Windows 11, macOS, please select the appropriate software version according to your system platform.

Click to download the official Dante Controller software Dante Controller

(<https://www.audinate.com/products/software/dante-controller>)



7.2 PC Main interface of the software



7.3 Menu bar and status bar

File :

Import: used for scene file import, same as status bar.

Export: for scene file export, same as status bar.

Save: Save the scene, same as status bar

Reset: reset the scene to the default value, same as status bar.



Marker: Scene import shortcut button



Marker: Scene export shortcut button



Marker: Scene save shortcut button



Marker: Scene reset shortcut button



Marker: Device search button

Connection status indication:

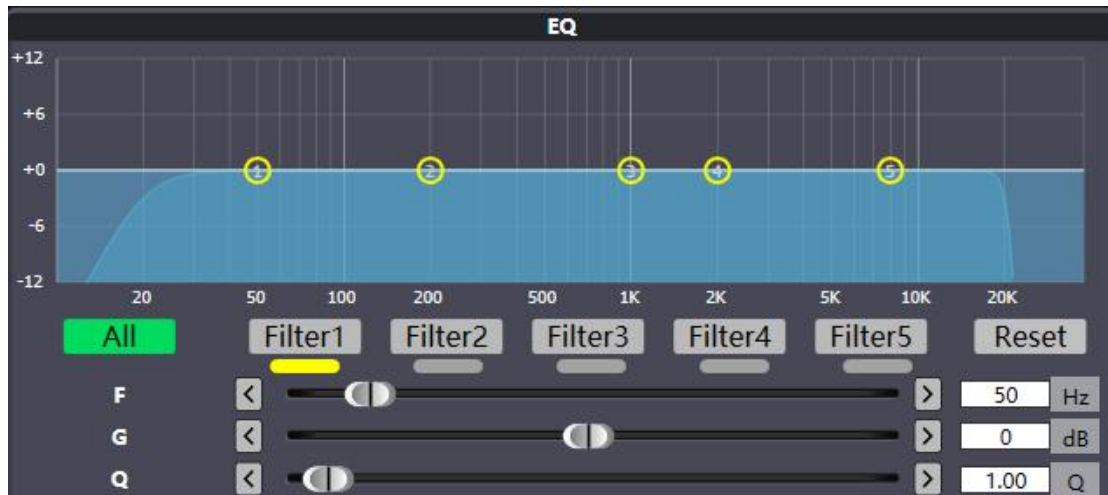


Remarks: Connected status




Remarks: Disconnected status

7.4 Equalizer (5 bands)



All: Enable filters

Filters 1-5: Select to enable or disable filters, green means enabled, gray means not enabled

: Yellow color indicates the current filter, you can set the frequency, gain and Q value for the current filter.

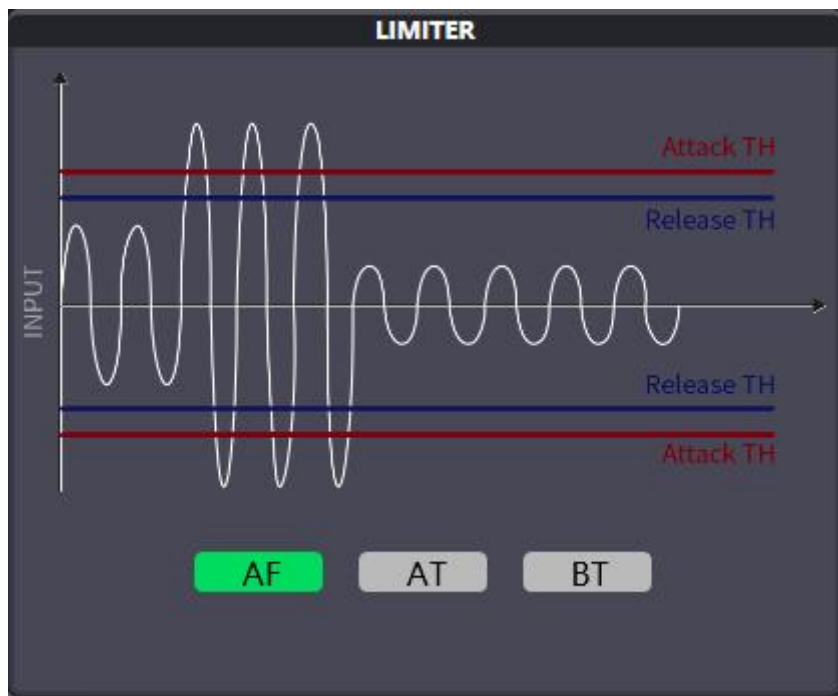
Reset: reset all filter parameters

Frequency: Center frequency

Gain: Center frequency gain

Q: Filter Q value

7.5 Limiter



POE power options: AF, AT, BT

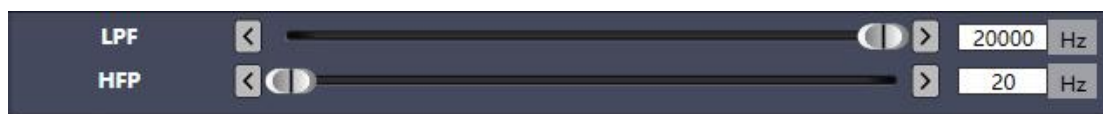
AF: 802.3 AF protocol, POE power <15W

AT: 802.3 AT protocol, POE power <30W

BT: 802.3 BT protocol, POE power <60W

POE switch power over the protocol power will be distortion protection.

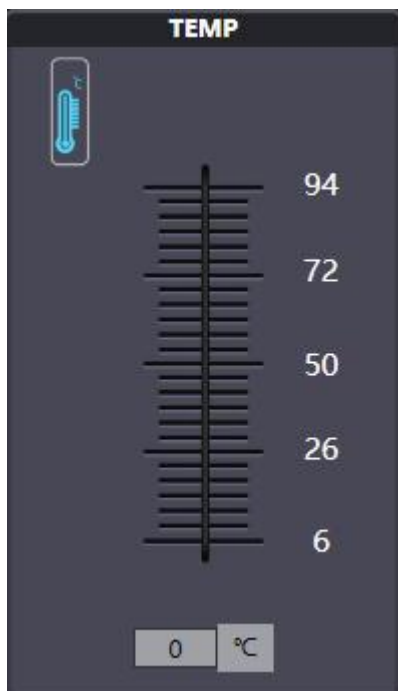
7.6 High-pass and low-pass filters



High-pass frequency: the cutoff frequency of the high-pass filter;

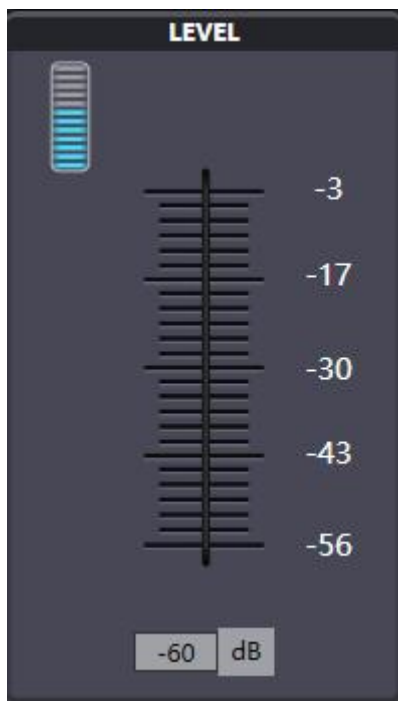
Low-pass frequency: cutoff frequency of the low-pass filter.

7.7 Temperature monitoring



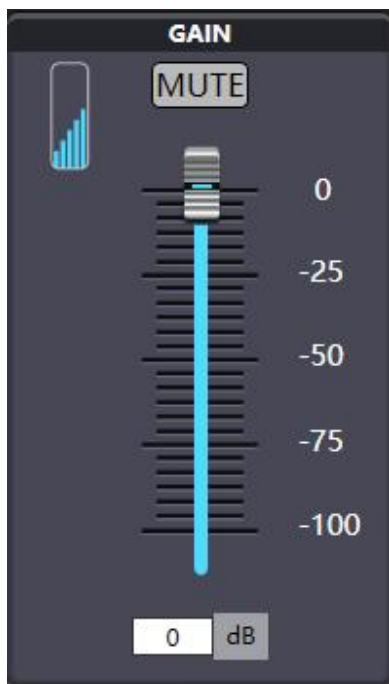
Temperature monitoring: real-time detection of amplifier module temperature

7.8 Level display



Audio signal level indication

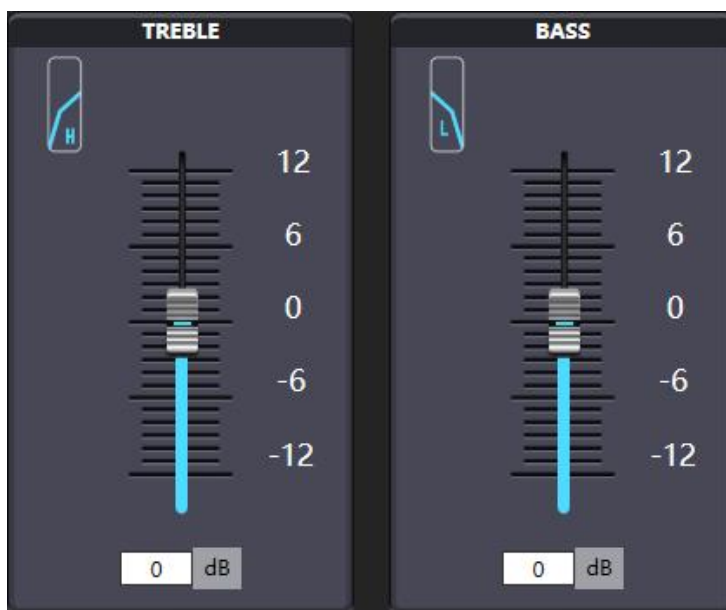
7.9 Output gain and mute



Mute: Mute audio output on/off

Gain: Adjust the gain of the output audio signal, through the fader or input specific value adjustment

7.10 Treble boost and bass boost



High/Low Enhancement Adjustment: Setting of specific parameter values via fader or manual inputs.

Chapter 8 Packing List

No.	Name	Quantities
01	Column	1
02	User Manual	1
03	Certificate of Conformity /Warranty Card	1
04	Hanging (Optional Hanging)	1

Warranty Regulations

The warranty period of this product is 1 year.

In the warranty period of non-man-made damage caused by the product performance failure can enjoy three packages of service.

Warranty card by the sales unit stamped after the effective. The alteration is invalid!

The following conditions (including, but not limited to, this) are not covered by the three-package service:

1. No warranty card or missing valid invoice or the date has exceeded the validity period of the three packages of services;
2. Not in accordance with the requirements of the product instructions for use, maintenance, management and damage caused;
3. The product model or code on the warranty voucher does not match the physical goods;
4. Damage caused by the dismantling and repair of non-authorized service providers;
5. Normal discolouration, wear and tear and consumption during the use of the product are not covered by the warranty;
6. The product cannot be used due to the user's own network reasons, please consult customer service staff.



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