Dante Ceiling Speaker PoE, 40W Operation Manual

(500221)

Table of Contents

1. Safety Precautions

To ensure the best performance from the product, please read all instructions carefully before using the device. Save this manual for future reference.

- Follow basic safety precautions to reduce the risk of fire, electrical shock, and injury.
- Do not dismantle the housing or modify the module. It may result in electrical shock or burns.
- Do not open or remove the housing of the device as you may be exposed to dangerous voltage or other hazards.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture and do not install this product near water. Keep the product away from liquids.
- Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on the housing, unplug the module immediately.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.
- Using supplies or parts not meeting the product specifications may cause damage, deterioration or malfunction.
- Refer all servicing to qualified service personnel.
- Install the device in a place with adequate ventilation to avoid damage caused by overheat.
- Unplug the power when left unused for a long period of time.
- Information on disposal of devices: do not burn or mix with general household waste, please treat them as normal electrical waste.

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2. Introduction

The MuxLab Dante Ceiling Speaker PoE, 40W (500221) is a high-performance full band and easy installation speaker ideal for providing background music and vocal performance in a wide range of applications and installations and is designed with advanced linear sound source technology.

The MuxLab Dante Ceiling Speaker PoE, 40W comes with a 6.5" coaxial 40W loudspeaker driver that has excellent dispersion, wide bandwidth, and smooth frequency response which makes this the ideal choice for today's overhead commercial and residential applications.

To achieve the distribution of power supply, audio signal transmission, and control functions the Dante Ceiling Speaker PoE, 40W uses only a network cable, making it a very economical option with great energy savings.

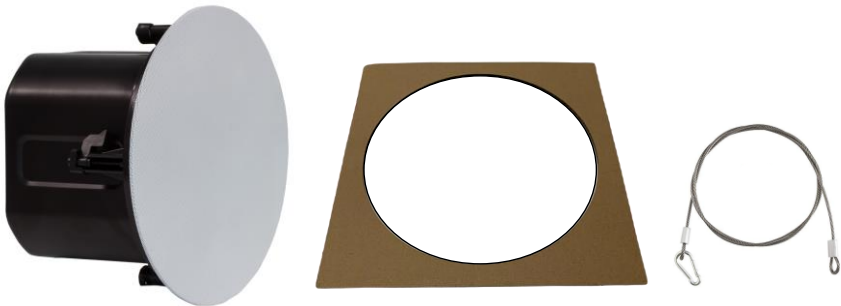This product is compatible with other MuxLab Dante products, including the following models:

- 500220 - Dante Two Column Speakers PoE, 60W
- 500765 - Dante/Quad Channel Audio PoE Gateway
- 500759-TX-Dante - HDMI/Dante over IP PoE Transmitter, UHD-4K

3. Features

- Supports the Dante protocol
- Built-in power amplifier module
- Precise DSP matching
- Power Supply via PoE
- Mounts easily onto the ceiling
- Free sound calibration software tool available

4. Package Contents

- One (1) Dante Ceiling Speaker PoE, 40W
- One (1) Speaker hole template
- One (1) Safety Wire Rope for Ceiling Speaker
- One (1) User manual (available via download)
- One (1) calibration software tool (available via download)

Notes：Confirm that the product and accessories are all included. If not, please contact the supplier from which you purchased the unit.
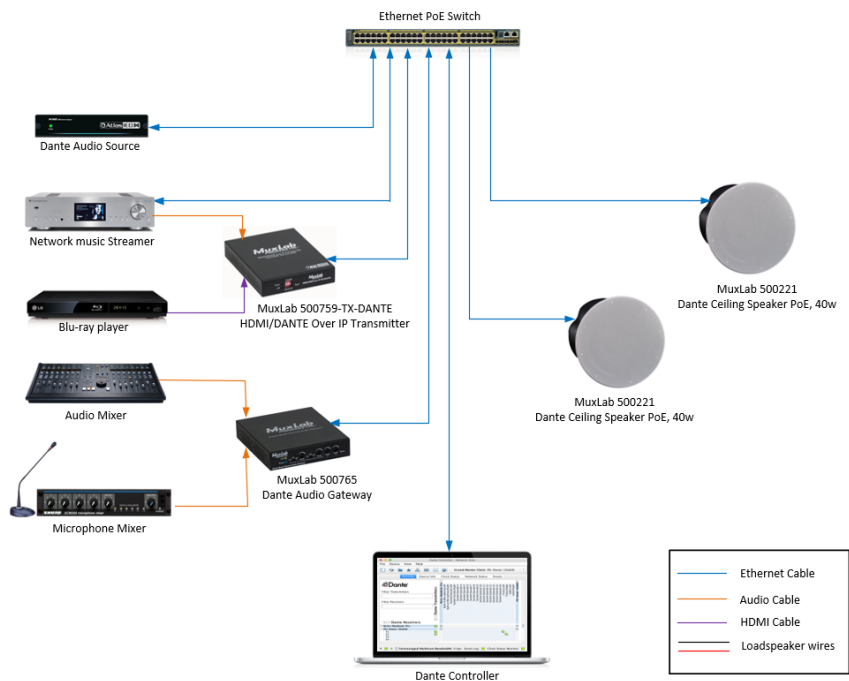
5. Specifications

Frequency Response	90Hz ~ 16KHz
Audio Input	Dante Audio via Ethernet
Peak Power	40W
Route Switching Control	Dante™ Controller Software
Network Interface	RJ-45 x 1
Driver Specifications	HF:1'' x 1, LF:6.5'' x 1 Coaxial unit
Power Supply	PoE+ (IEEE 802.3AT/BT)
Built-in Function	DSP/Dante/Amplifier
DSP Function	Gain, Mute, 5-Band PEQ, Limiter
Power Supply	Limiter PoE Network Switch
Hanging Method	Built-in buckle
Product dimensions	Φ278 X 176mm
n Hole Dimension	Φ246mm
Depth of opening	240mm
Unit Weight	6.17 lbs (2.8 kg)
Shipping Weight	8.0 lbs (3.6 kg)
Warranty	2 years
Order Information	500221 Dante Ceiling Speaker PoE, 40W (UPC: 627699002216)

6. Applications

The Dante Ceiling Speaker PoE, 40W are ideal for hotels, conference rooms, shopping center, education, hospitals, retail stores, performing art centers, restaurants, airports, houses of worship, and board rooms.
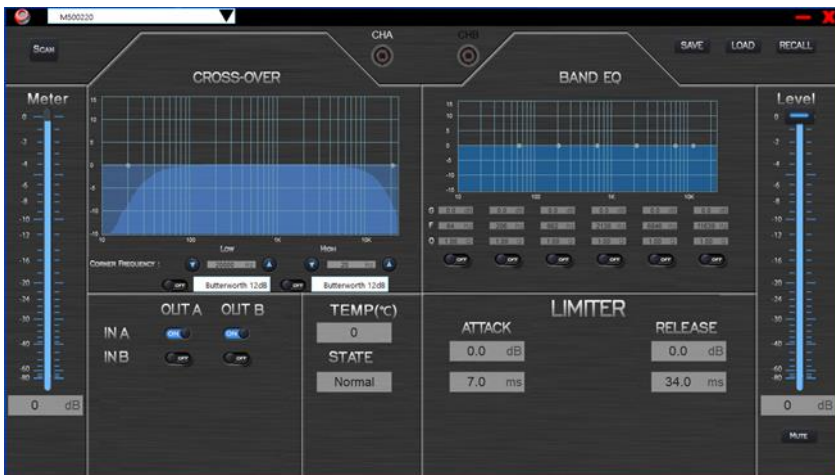
Typical Application

7. Sound calibration software tool

The Dante Ceiling Speaker PoE, 40W comes with a calibration software tool, this software tool is useful for all types of users who want to improve the sound of their speakers. The calibration software tool is free and available on the MuxLab website:: https://muxlab.com/support?section=software-and-firmware

The graphical interface of the calibration tool is shown below.

Note: **Note that to get the maximum power output from your speakers, you must connect them to Ethernet Switches that provide 40W of power output per port, or use 40W (or greater) PoE Injectors.**

8. Troubleshooting

The following table describes some of the symptoms and possible solutions regarding the Dante Ceiling Speaker PoE, 40W.

symptom	Probable cause	Possible solution
No Speaker found	• The Speaker is not connected to the network.	Check that the network cable is properly connected to the Speaker.
	• The Speaker is not powered on correctly.	Verify the Ethernet Switch being used supports 40W PoE power, or use a 40W (or greater) PoE Injector.
	• The Speaker is connected to a different Subnet	Make sure you are in the same subnet as your Speaker.

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