

CLS120-Datasheet

I. Product Overview

This sound column features a 12 x 2.5-inch full-range driver array, offering excellent vertical directivity and a wide frequency response range. It is suitable for various professional audio scenarios such as conference rooms and multi-purpose halls. Equipped with an onboard DSP processor and high-efficiency amplifier, it supports Dante, analog audio input, and multiple power supply options. Together with Yealink Room Designer, it enables intelligent acoustic tuning and automated deployment, delivering clear, uniform, and high-fidelity audio experience.



II. Key Features

- 12*2.5-inch full-range neodymium magnet driver array; driver frequency response range up to 90–20 kHz.
- Onboard DSP and 420 W amplifier.
- Strong vertical directivity for more even front-to-rear sound field.
- Adjustable beam steering range: $\pm 45^\circ$; adjustable beam opening angle: $0-30^\circ$.
- Driver sensitivity: 88 dB.
- Metal housing – premium and elegant, easily blends into meeting rooms.
- Dante and analog audio signal inputs.
- Supports multiple power supply modes with auto adaptation: AC, PoE+, PoE++ , freely selectable.
- Combined with Yealink Room Designer Wizard, enables automated configuration and deployment.

- Supports cascading of two CLS120 to cover larger meeting spaces.
- Supports dual-beam coverage for two independent listening zones.

III. Hardware Specifications & Functions

Technical Parameters

Parameter	Description
Module Performance	
Frequency Response (-3 dB)	120–18 kHz
Frequency Range (-10 dB)	90–20 kHz
Horizontal Coverage Angle	160° @ 50–4 kHz (-6 dB) 120° @ 50–8 kHz (-10 dB)
Vertical Beam Steering Range	±45°
Maximum Vertical Opening Angle	30°
Max SPL @ 1m	1. AC power: max SPL 1m (continuous) : 112dB 2. PoE++ power: max SPL 1m (continuous) : 106dB 3. PoE+ power: max SPL 1m (continuous) : 103dB
Sensitivity (1 W, 1 m on single driver)	88dB
Total Harmonic Distortion	<0.5%
Electrical Performance	
Power Supply Modes	AC / PoE
AC Mains Voltage	220 V / 50-60 Hz
AC Mains Connector	IEC60320-C14
Standby Power	5.4 W
Rated Power	120 W (AC power input) 30W (PoE+) 60W (PoE++)
Maximum Power	255 W
Audio Input	
Analog Audio Input Connector	3-pin Euroblock
Max Analog Audio Input Level	2.45 Vrms (+10 dBu)

Analog Input Impedance	20 kΩ
Digital Audio Input	Input: 2 channels of Dante® digital audio (RJ-45) AES67 audio input (RJ-45) YeaAudio input (RJ-45)
Digital Audio Output	1 channels of Dante® (RJ-45)
Integrated DSP	
A/D and D/A Converters	24-bit, 48 kHz
Storable PEQ Presets	20+
Audio Latency	<5 ms
Protocol Support	Support for Dante (encryption with security chip), AES67, and Yealink Audio protocol
Physical Parameters	
Color	Black
Material	Cabinet: aluminium alloy – extruded, sandblasted, anodized End caps: PC, painted Grille: Cold Rolled Steel, with electrophoresis finished
Unit Dimensions (L×W×T)	1000 mm × 93 mm × 128 mm
Packing Dimensions (L×W×T)	1138 mm × 303 mm × 202 mm
Net Weight	10.15 kg
Gross Weight	13 kg
Mounting	Suspension / integrated wall-mount brackets; allows horizontal yaw up to 90° in either direction
Operating Conditions	
Operating Temperature	0 °C to 40 °C
Operating Humidity	0–95%
Storage Temperature	–20 °C to 60 °C
Altitude	<2000 m
Operating Environment	Indoor use only

IV. Included Accessories

- CLS120 unit
- QSG
- Power cable
- RJ-45 expansion cable
- Power expansion cable
- 3-pin Euroblock connector
- Wall-mount bracket
- Cascade bracket
- Cascade gasket
- Cable fixed adhesive tape
- Yaw brackets
- M6 flange nuts, M5×30 mm
- M6 flange nuts, M5×18 mm
- M6 hex head bolts
- Pre-fixed screw
- Expansion bolts
- Self-tapping screws
- Safety rope group