

DH-HAP301

Hi-fidelity Pickup



- Designed with a high-sensitivity omnidirectional microphone which picks up clear sounds and has a high anti-interference capability.
- Built-in CPU audio capture module with reduced hardware circuit interference and audio noise.
- Offers WDR technology which increases the range of audio signals that can be received, and allows the system to process large and small audio signals.
- Comes with a high-speed DSP digital information processor that helps improve signal clarity and prevent the distortion and attenuation of voice signals.
- Built-in high-speed CPU that processes audio signals in real time with low latency.
- Protects against lightning, reverse polarity and electrostatic shocks.

Series Overview

The pickup is designed with both hardware and software, effectively solving acoustic problems such as noise and continuous echo. It produces relatively high and reliable audio acquisition data, collects sound that is both close and far in indoor scenes, and adapts to quiet and noisy environments. It is ideal for indoor locations that require synchronous recording and high quality videos such as large halls, banks, government halls and various enterprises. It also meets the needs of industries such as the finance, education, and public security industry.

Scene

The device is ideal for scenes that require high quality synchronous recording and video recording in industries such as public security, finance, education, and enterprise.

Technical Specification

Basic Parameters

Type	Analog pickup
Shape	Circular
Installation	Ceiling mount; desktop mount

Acoustic Parameters

Pickup Range	1–150 square meters; around 7 m radius
Audio Transmission Distance	3,000 m (Requires a 0.5 mm ² RVVP cable. The sound quality becomes poor beyond 3,000 m and the maximum output amplitude also decreases.)
Frequency Response	20 Hz–20 kHz

Sensitivity	–38 dB ± 1 dB (re 0 dB=1 V/Pa@1 kHz)
S/N Ratio	71 dB (1 KHz and Max dB SPL)
Gains Adjustment	0–4.6 VPP adjustable (1 KHz and Max dB SPL)
Direction Feature	Omnidirection
Dynamic Range	54 dB (1 KHz and Max dB SPL)
Total Harmonic Distortion (THD)	0.77% (1 KHz and Max dB SPL)
Overload Sound Pressure Level	87.7 dB spl (1 kHz and THD≤ 3%)
Equivalent Noise Level	≤28 dB spl (A)
Output Impedance	99.5 Ohmic non-equilibrium
Maximum Output Range	3.48 VPP (1 KHz and Max dB SPL)
Microphone	High-fidelity silicone microphone
Signal Processing	Digital noise reduction, reverberation, voice enhancement, howling suppression

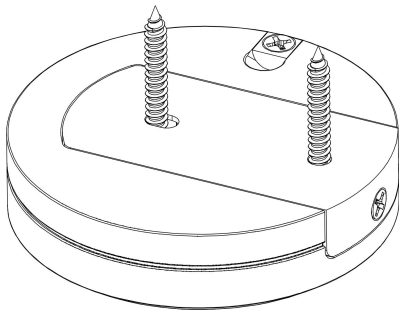
General Parameters

Connection Mode	One RCA female connector and one DC pin power connector.
Transmission Cable	4-core 0.5 mm ² RVVP shielded cable
Power Supply	12 VDC
Protection Circuit	8 KV Air, 6 KV contact ESD lightning protection, power polarity reverse connection protection
Drive Performance	Built-in front amplifier circuit that allows headphones to be connected to the device.
Power Consumption	<2 W
Operating Temperature	–20 °C to +60 °C (–4 °F to +140 °F)

Operating Humidity	0%–95% (RH), non-condensing
Protection	IP2X
Appearance Color	Silver
Casing	Metal AL6063-T5 casing
Product Dimensions	Φ70 mm × 21.8 mm (Φ2.76" × 0.86")
Packaging Dimensions	124 mm × 93 mm × 59 mm (4.88" × 3.66" × 2.32") (L × W × H)
Net Weight	<0.2 kg (0.44 lb)
Gross Weight	<0.2 kg (0.44 lb)

Ordering Information		
Type	Model	Description
Hi-fidelity Pickup	DH-HAP301	Hi-fidelity Pickup

Installation



Dimensions (mm[inch])

