

DH-HAP301

Hi-fidelity Pickup



System Overview

This series product is suitable for the environment of high synchronization audio/video record quality such as public security, finance, education, building, energy sources, procuratorate, court, etc. It meets the audio collection requirements from the near distance in the indoor/outdoor environment, and the audio collection in the quiet or noisy scenario. Especially in the large hall or lobby (such as bank or administrative affairs hall), the noise from the scene and the continued echo resulting from the acoustic reflection may result in low audio recognition rate. This series product has the designated design on the structure, hardware, software and so on, which effectively solve the acoustic problem in the actual environment, and present the generally reliable audio/video surveillance experience.

Technical Specification

Performance

Pickup Range	1 square meter–150 square meters (10.76 sq.ft–1614.59 sq.ft)
Audio Transmission Distance	3000 m (9842.52 ft)
Frequency Response	20 Hz–20 kHz
Sensitivity	-38 dB
SNR	85 dB (1 m 40 dB audio source SPL) 52 dB (10 m 40 dB audio source SPL) 1 kHz at 1 Pa
Pointing Features	Omni-directional
Gain Adjustment	0 VPP–4.6 VPP adjustable (75 dB sound pressure 1 kHz)
Dynamic Range	106 dB (1 kHz at Max dB SPL)
Distortion	≤0.3% (74 dB sound pressure, A weighted)
Max. Sound Pressure	120 dB SPL (1 kHz, THD 1%)
Output Resistance	25 Ω non-balanced
Output Signal Amplitude	2.5 VPP/-25 dB
Microphone	High-fidelity micro electromechanical system (MEMS) silicon microphone

- CPU built-in audio sampling module, low interference from the hardware circuit, audio signal has low noise
- Smart audio crack protection, auto low microphone sensitivity to meet the requirements of the high volume to reduce audio crack.
- Adopts wide dynamic range processing technology for the valid audio signal, balances the processing of high audio and low audio.
- High-sensitivity microphone, omni-directional pickup, clear audio, high anti-interference capability.
- Noise reduction via the algorithm to enhance signal definition.
- Auto gain and compensate the human voice frequency. Exaggerates the human voice in environment of lots of noise and can present the clear voice.
- It can effectively reduce the indoor reverberation resulting from the reflection via the wall, ceiling.
- It supports screaming control function and can greatly enhance the speaker effect when the pickup and the loud speaker are in the same environment.
- Built-in high-speed CPU, real-time processing audio signal, low latency.
- Built-in lighting protection, power two-polarity misconnection protection, static electricity protection.
- CE, FCC compliance.

Signal Processing

Digital NR, reverberation, human voice enhancement, screaming control

Protection

Protection

8kV Air, 6kV contact ESD lightning protection, power polarity misconnection protection

Electrical

Drive Capability

Built-in preamplifier circuit

Connection Mode

3 lead wire: (power, audio, public GRD)

Transmission Cable

3-Pin mm² RVVP shielded cable

Power Supply

12V DC (9V-18V)

Power Consumption

0.72W (60mA)

Environmental

Operating Temperature

-20 °C to +60 °C (-4 °F to +140 °F)

Operating Humidity

≤95%RH

Storage Temperature

0°C to +40°C (+32°F to +104°F)

Storage Humidity

≤95%RH

Construction

Audio Series | DH-HAP301

Color	Metal Silver
Casing	Aluminum alloy
Dimensions	Φ70 mm × 21 mm (Φ2.76 " × 0.83 ")
Net Weight	0.11 kg (0.24 lb)
Gross Weight	0.16 kg (0.35 lb)

Certifications

Certifications	FCC: 47 CFR Part 15, Subpart B:2016 CE: EN 55032:2015(Class B), EN50130-4:2011+A1:2014, EN55024:2010+A1:2015
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Ordering Information

Type	Part Number	Description
Audio Series	DH-HAP301	Hi-fidelity Pickup
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Dimensions(mm/inch)

