Datasheet

PAS-NODS50 | High-Performance Network Outdoor Directional Speaker 120 Watt



Key features

- Directional broadcast for targeted audio delivery in outdoor environments.
- Integrated network speaker with built-in decoder, amplifier, and speaker in a wall-mounted form factor.
- Flexible broadcasting with timed ringing, real-time sampling, and offline modes, plus single or master-slave networking.
- Web configuration for network and broadcast parameters with Ethernet RJ45 connectivity and SIP support.
- Robust performance with AC220V power, 120W output, ≥85dB S/N, and 20Hz-16KHz amplifier response.
- Outdoor-ready construction with aluminium alloy shell, steel grille, and -20°C~+55°C operating range.

Product Overview

The Macsys PAS-NODS50 Network Outdoor Directional Speaker is a high-performance solution designed for environments that demand precise, powerful, and controlled audio delivery. Combining network audio decoding, amplification, and a precision sound column into a single unit, it delivers exceptional craftsmanship and superior sound quality.

Equipped with advanced directional sound technology, the PAS-NODS50 ensures focused audio projection—reducing ambient noise, minimizing sound spill, and enhancing clarity in open or noisy environments. It supports multiple broadcasting modes, including scheduled ringing, live announcements, and offline playback, while server integration enables centralized control and flexible dissemination.

The PAS-NODS50 offers seamless network integration with support for TCP/UDP, SIP, and multicast protocols, making it easy to deploy as a standalone unit or in master-slave daisy-chained configurations. A built-in web interface allows for effortless configuration of network parameters and broadcast settings, ensuring maximum adaptability.

Engineered for outdoor reliability, the unit features a rugged aluminum alloy enclosure with steel grille, operates in extreme temperatures from -20°C to +55°C, and withstands up to 90% humidity. With 120W output power, AC220V operation, and multiple connectivity options-ncluding dual RJ45, alarm I/O, line-in, reset, and power terminals-the PAS-NODS50 is both versatile and durable.
Ideal for schools, industrial complexes, transportation hubs, and highways, the PAS-NODS50 delivers clear, targeted, and dependable audio communication where precision matters most.

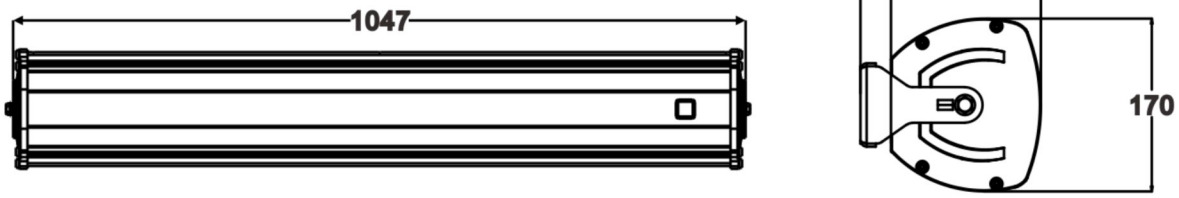
Technical Specification

Feature	Details
Product	120 Watt Network Outdoor Directional Speaker
Design	Integrated wall-mounted design with network audio decoding, amplifier, and speaker
Directionality	Directional broadcast with targeted audio delivery
Broadcasting modes	Supports timed ringing, real-time sampling, and offline broadcasting
Networking	Single or master-slave speaker network broadcasting
Configuration	Web browser-based configuration of network and broadcast parameters
Connectivity	Ethernet 10BASE-T/100BASE-TX RJ45; cross-network segment and cross-routing compatible
Line input	3.5mm line in interface for external audio sources
Power supply	AC220V, 50/60Hz
Power output	120W
Power consumption	≤100W
Audio codecs	MP2, MP3, PCM, ADPCM
Sampling rate	8kHz~44.1kHz, 16bit
Bit rate	16kbps~320kbps
S/N ratio	≥85dB
Frequency response (power amp)	20Hz-16KHz
Frequency response (line in/out)	200Hz-18KHz
Network protocols	TCP, UDP, ARP, ICMP, IGMP, SIP, HTTP, FTP
Ports: alarm I/O	Alarm in 1 (J1-2), Alarm in 2 (J3-4), Alarm out (J5-6)
Ports: network	Two RJ45 interfaces; orange LED solid, green LED slow flash when networked; green LED fast flash when working
line in	3.5mm audio cable to computer or other devices
reset	Short connection >10S restores factory defaults
Power	Power socket AC 220V
Mounting	Surface, wall or pole mount
Environment	Outdoor locations
Operating temperature	-20°C~+55°C
Operating humidity	10%-90% RH
Enclosure material	Aluminium Alloy

PAS-NODS50 | High-Performance Network Outdoor Directional Speaker 120 Watt

Feature	Details
Grille material	Steel
Dimensions	1047*177*170mm
Net weight	11kg
Accessories	1×Quick Installation Guide; 2×Connection Terminal(3.81-2P); 1×Connection Terminal(3.81-6P)
Certifications	CE, RoHS Compliance.

Dimension



©2024 Macsys

Macsys reserve rights to introduce modifications without notice. Product images are for illustrative purposes only, the actual product may vary. Warranty policy applies as described on our website.