

# ENA-P524

Data Sheet

# ENA - P524

## Precision Voice Alarm. Engineered for Safety

The ENA-P524 is a high-performance, EN54-24 certified coaxial sound projector, specifically engineered for critical public address and voice evacuation systems that demand superior audio fidelity. Featuring a 2-way coaxial driver with a 5-inch woofer and neodymium tweeter, the ENA-P524 delivers wide-band audio reproduction, ensuring both crystal-clear voice messages and high-quality background music. Its robust, IP54-rated cylindrical design is ideal for demanding indoor and semi-outdoor environments, blending advanced acoustics with life safety compliance.



## Engineered for Safety, Built for Clarity

The EN54-24 certified ENA-P524 delivers superior audio fidelity for emergency voice and background music. Its premium 2-way coaxial design features a 5-inch woofer and neodymium tweeter. Selectable 24W, 12W, and 6W taps provide exceptional coverage flexibility and high-output performance.

## Smart Safety, Simple Install

Built for demanding environments, the IP54-rated, flame-retardant ABS V0 enclosure protects a thermal fuse and ceramic connectors for ultimate circuit stability. The supplied aluminium bracket and waterproof cable glands ensure a streamlined, weather-resistant installation with easy daisy-chain capabilities.

# Technical Specifications

Unit	ENA-P524
Standards:	EN54-24:2008 Loudspeaker for voice alarm system for fire detection & fire alarm system
Environmental Class EN54-24:	Type A, indoor applications
IP Rating:	IP54 (EN60529)
Speaker Unit:	5.1" 2 way coaxial speaker, Neodymium Tweeter
Transformer Taps:	(100V) 24W-12W-6W
Freq. Response:	110~20,000 Hz (-10dB)
Sensitivity (1w@1m):	86.3dB
Max SPL. (Pmax/1m):	100.3dB
Rated Power:	24W
Max Power:	48W $\Omega$
Impedance @1kHz:	416 $\Omega$ (24W), 833 $\Omega$ (12W), 1.66 k $\Omega$ (6W)
Coverage Angle (-6dB):	360° (500 Hz), 258° (1 kHz), 128° (2 kHz), 63.6° (4 kHz), 58° (8 kHz)
Directivity Index DI (dB):	1.4 (500 Hz), 3.9 (1 kHz), 5.2 (2 kHz), 8.4 (4 kHz), 8.5 (8 kHz)

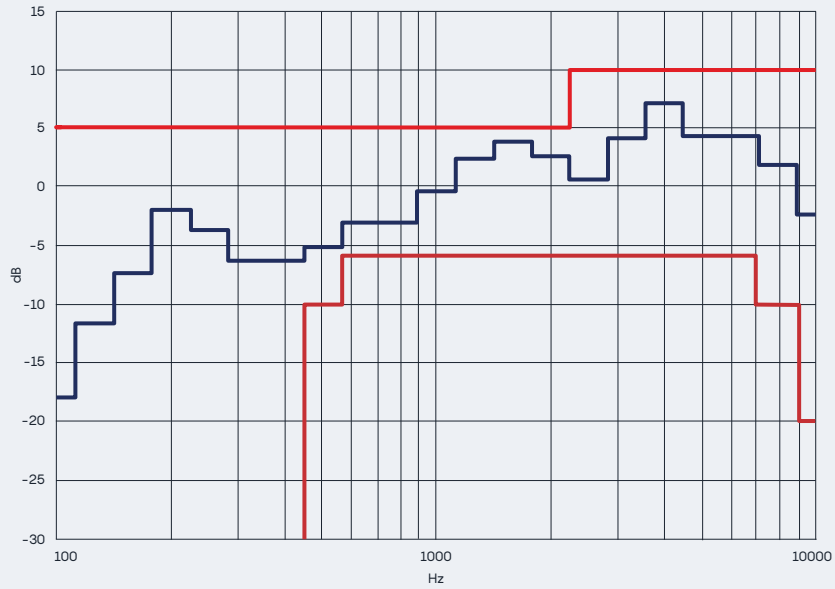
# Technical Specifications

Unit	ENA-P524
Directivity Factor Q:	1.4 (500 Hz), 2.4 (1 kHz), 3.3 (2 kHz), 6.9 (4 kHz), 7.0 (8 kHz)
Dimensions (Ø-P):	Ø140mm (Diameter) - 240mm (Projection)
Weight:	1.46kg
Material:	ABS V0 type body, painted aluminium grille
Connections:	Ceramic connectors & thermal fuse
Mounting:	Aluminium bracket, waterproof cover, cable glands

# Technical Data

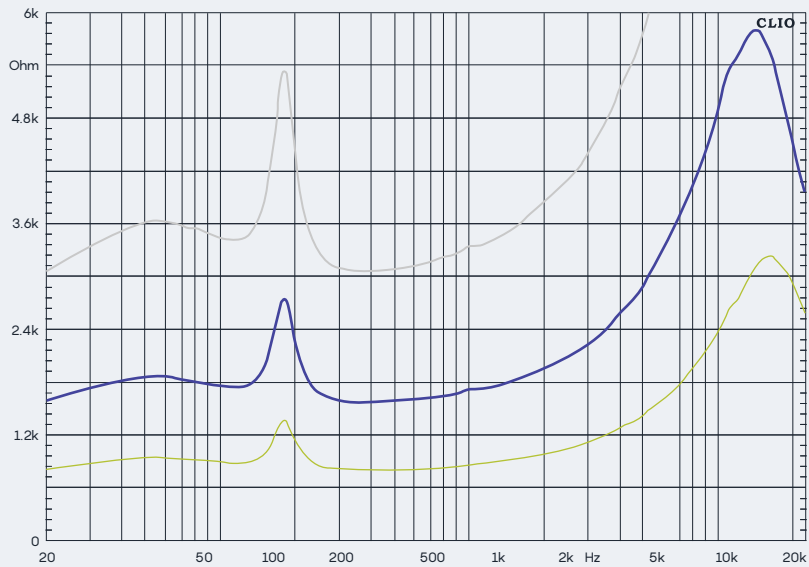
## Frequency Response

Measurement on IEC standard baffle, SPLMAX @ 4m



## Impedance Diagram

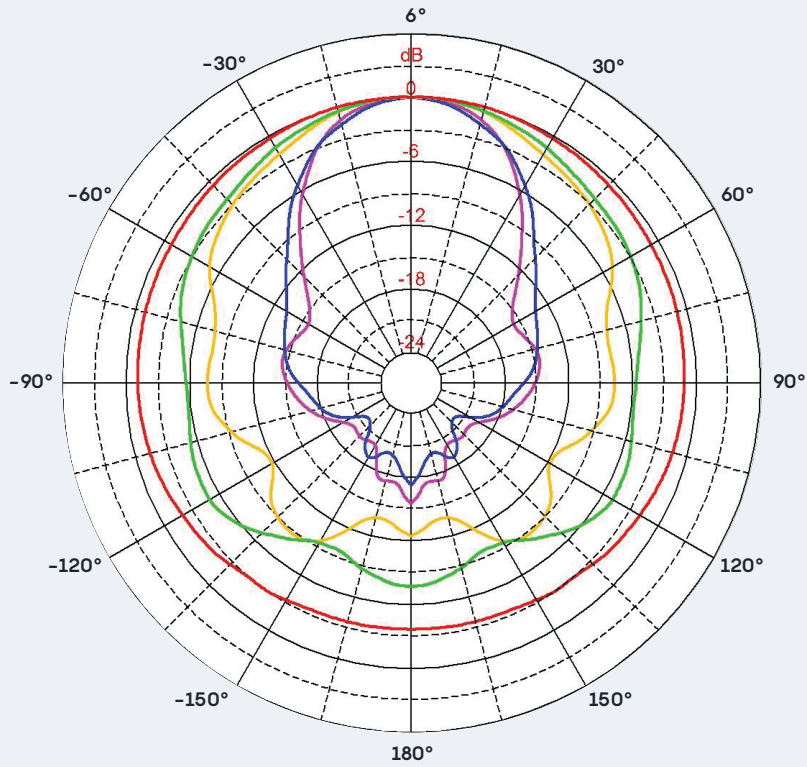
Measurements at different power taps: 24W - 12W - 6W



# Technical Data

## Polar Diagram

2D Directivity Analysis  
Horizontal = Vertical



# Contact Us

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