Precision Acoustic Reference Speaker from GRAS

GRAS
An Axiometrix Solutions Brand

GRAS 44AC

A reliable and versatile sound source for precision acoustic testing

In modern acoustic production and laboratory environments, consistency is everything.

From validating microphones and headsets to performing repeatable audio and electroacoustic tests, engineers need a trusted reference speaker that delivers accurate and stable acoustic output every time. The GRAS 44AC Production Reference Speaker is designed exactly for this purpose.

In addition, the 44AC is sesigned for long-term availability with consistent specifications. Unlike consumer loudspeakers that may change or disappear without notice, the 44AC provides a dependable reference for years to come.

Built on GRAS' extensive experience with mouth simulators the 44AC combines:

- High acoustic output
- Smooth and equalizable wide range frequency response
- Exceptional long-term stability
- Compact and robust construction

The result is a reliable reference loudspeaker engineered for demanding acoustic testing applications in both laboratory and production environments.

What is the GRAS 44AC?

The GRAS 44AC is a compact single-driver loudspeaker developed specifically for precision acoustic laboratory measurements and production line testing.

At 75 mm from the front grid, the 44AC can produce:

- Up to **110 dB re. 20 µPa** from **200 Hz – 16 kHz**
- Flat and stable output across a wide frequency range
- Low distortion performance for highly repeatable measurements



The speaker can be driven using either:

- Direct with an external signal source
- Through the integrated power amplifier

When connected to a 24 V DC supply, the internal amplifier automatically powers on, simplifying setup and operation.

Flexible mounting and positioning options

For flexible setup, the speaker includes two threaded inserts on the front rim for attaching accessories. It also features a 3/8" screw-type mounting solution with rotation control for precise positioning.

Key Benefits

- Reliable and repeatable acoustic output
- Compact and rugged design
- Smooth frequency response for easy equalization
- Ideal for production line testing
- Flexible mounting and positioning options
- Designed for long-term specification stability
- Long-term product availability with consistent specifications

Typical Applications

Acoustic Production Testing

- Headphones and headsets
- Smartphones and consumer electronics
- Microphones and audio devices
- Speaker validation and calibration

Laboratory Testing

- Electroacoustic measurements
- Reference sound source applications
- Research and development
- Acoustic verification setups

Automotive & Industrial

- Cabin audio testing
- Sensor validation
- Acoustic subsystem testing
- General precision sound generation



Why Choose GRAS 44AC?

The GRAS 44AC has been engineered for environments where repeatability and reliability are critical.

Its smooth raw frequency response allows engineers to achieve a flat response using only simple equalization filters — without the pronounced peaks and dips commonly seen in conventional loudspeakers.

Combined with its robust mechanical design and flexible mounting system, the 44AC becomes an ideal long-term reference speaker for both R&D and production facilities.

Key Features

- Built-in power amplifier
- High continuous output capability
- Flat equalizable frequency response
- Low distortion
- Stable long-term performance
- Compact single-driver design
- 3/8" mounting solution with rotation control
- Flexible accessory mounting
- Easy integration into test setups

Technical Highlights

Specification	Value
Frequency Range	100 Hz – 20 kHz
Max Continuous Output	110 dB
Distortion	Typically 1%
Built-in Amplifier	Yes
Connector	BNC
Weight	2 kg

Interested?

Learn more or request a quote. >

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