



# ANG-2200

## ACOUSTIC NOISE GENERATOR

### Protect your privacy...

Protect proprietary or sensitive conversations against eavesdropping threats from perimeter contact microphones and reflected laser listening devices.

## ANG-2200 Features

The ANG-2200 injects tuned masking noise into perimeter structures to mask structure-bound audio. Acoustic Spectrum Analysis Software (ASA-2000) ensures the masking noise is properly adjusted to provide adequate masking without being too loud or disruptive.

- True random noise source with no statistical repeatability
- Independently controlled dual channels for use on different structures
- "Tunable" masking noise for specific environmental requirements
- Provides an eavesdropping defense against devices that may not be detected by conventional methods

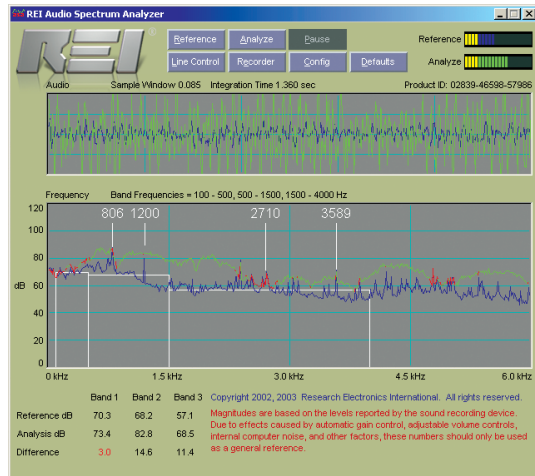
System configuration should be tailored to the environment. REI recommends one transducer every eight linear feet (2.4m).

## ANG-2200 Accessories (sold individually)

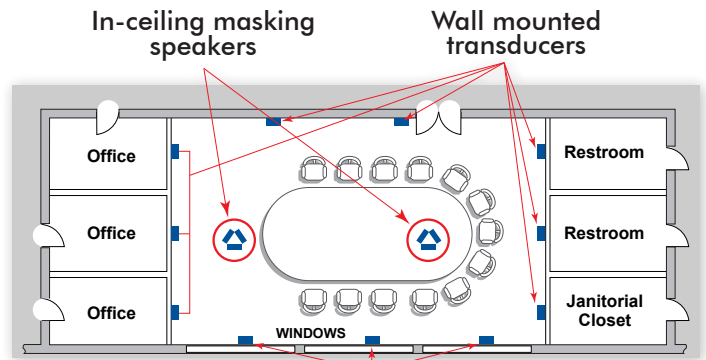
**TRN-2000 Transducer** injects acoustic noise into walls, ceilings, windows, plumbing, air ducts, and other vulnerable structures.

**OMS-2000 Omni Directional Speaker** projects masking noise into drop ceiling air spaces, closets, crawl spaces, and other vulnerable air spaces.

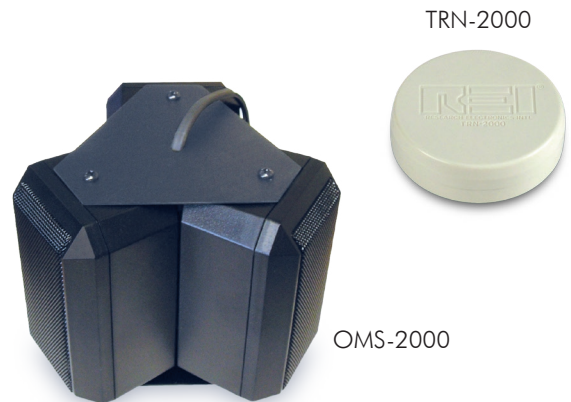
NOTE: Speaker wire not included, common 18 gauge speaker wire is recommended.



## Example of noise masking speaker/transducer placement



- TRN-2000 Provides perimeter protection for walls and windows
- ⬠ OMS-2000 Provides protection from ceiling devices (mounted in drop ceilings)



Acoustic Leakage Probe included with ASA-2000 Software

## ASA-2000 Acoustic Spectrum Analysis Software

Allows the user to evaluate structure-bound audio leakage for analysis and proper adjustment of the ANG-2200 to provide adequate masking without being too loud and/or disruptive.

# ANG-2200 Technical Specifications

## ANG-2200 Acoustic Noise Generator

**Size:** 1.6 in x 5.5 in x 8 in (4.1 cm x 14 cm x 20.3 cm)

**Weight:** 1.2 lbs (544 g)

### Each Channel:

Independent Random Noise Source

Output voltage: 10 Vp-p @ 6 Ω (2 Ω min load)

Frequency range: 125 Hz to 4 kHz

Equalizer: LF 180 Hz ± 12 dB, HF 3 kHz ± 12 dB

**Power:** 12 VDC @ 1 A (AC adaptor supplied for 120 or 240 VAC)



Front Controls (Dual Channel)



Back Connections

## Accessory Specifications

### TRN-2000 Transducer

With wall mounting and connecting hardware

**Size:** 4 in x 1.5 in (10.2 cm x 3.8 cm)

**Weight:** 2 lbs (907 g)

**Impedance:** 6 Ω

### Max Transducers per Channel:

3 @ full level (parallel)

12 @ 1/2 level (six groups of two)

27 @ 1/3 level (six groups of three)



### WMT-2000 Transducer Window Mount



### OMS-2000 Omni Directional Speaker

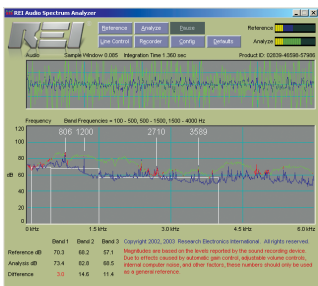
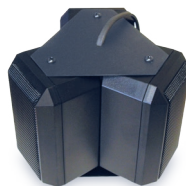
**Size:** 5 in x 5 3/4 in (12.7 cm x 14.6 cm)

**Weight:** 2.0 lbs (907 g)

**Impedance:** 24 Ω

### Max Speakers per Channel:

12 @ full level



### ASA-2000 Acoustic Spectrum Analysis Software

Allows the user to evaluate structure-bound audio leakage for analysis and proper adjustment of the ANG-2200 to provide

adequate masking without being too loud and/or disruptive.

### Acoustic Leakage Probe

**Frequency Response:** 50 Hz to 10 kHz  
(Surface Dependant)

**FET Preamp Bias:** 3 to 9 VDC

**Sensitivity:** Optimized for voice use/low noise high output element

**Impedance:** 2 kΩ



\* Product specifications and descriptions subject to change without notice.

## Optional Rapid Deployment Kit

This all-in-one ANG-2200 Rapid Deployment Kit provides the tools and accessories to rapidly deploy a complete ANG System in a medium sized conference room. Included in the kit:

- ANG-2200 (2)
- TRN-2000 (24)
- ASA-2000 Acoustic Spectrum Analysis software cd (1)
- Omni masking speakers (2)
- Transducer window mounts (24)
- Multi-meter with cables (1)
- Wire stripper (1)
- Screwdriver (1)
- Needle nose pliers (1)
- 1/4" socket bit (1)



2 Spools 500 ft (152 m) wire

Portable case with casters

**Weight Packed:** 75 lbs (34 kg)

**Exterior Dimensions:**

(LxWxD) 25 in x 20 in x 12 in  
(63 cm x 50 cm x 30.2 cm)

