



Presents : **NEOPLANAR**
A High Performance, Planar Magnetic Transducer

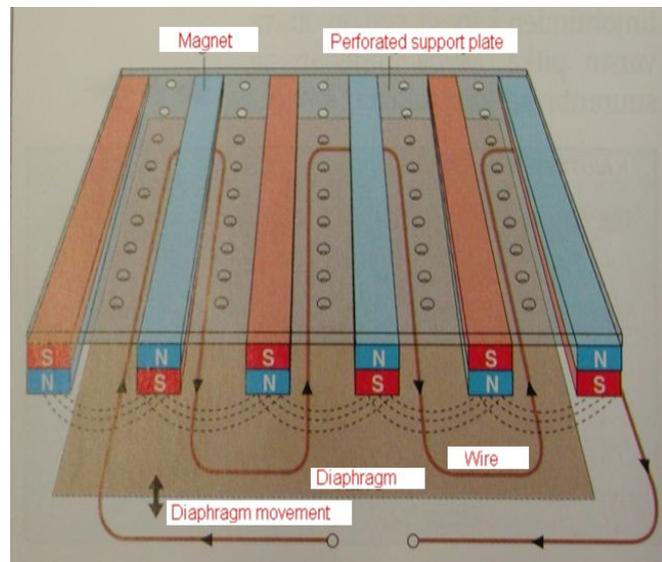
How it works

“**Understanding**” is the goal of voice communication; “**intelligibility**” is the new standard for sound reproduction measurement. NeoPlanar technology satisfies both requirements.

American Technology Corporation’s patented NeoPlanar® technology is a thin film magnetic transducer (built as thin as 3/16”), that uses an innovative, proprietary high-tech polymer diaphragm structure to make the finest signal conversion technology more reliable, convenient, efficient, and durable.

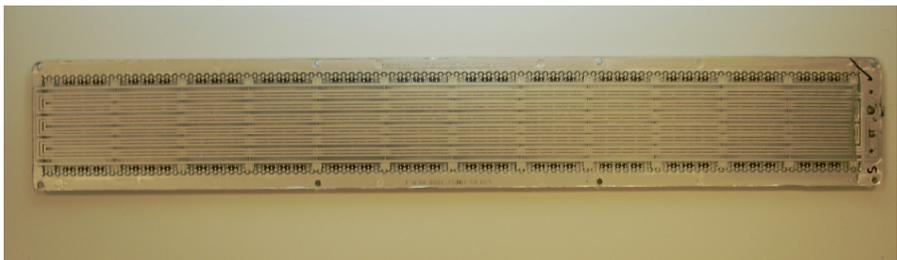
As a result, NeoPlanar has superior sound quality, higher sensitivity, lower wattage power amplifier requirements, and greater power handling capabilities for higher sound pressure levels.

Our careful design and unique assembly technology replaces the traditional speaker cone with an almost weightless thin film diaphragm driven by the force of high energy magnetics for less distortion and higher dynamic range than other planar drivers of a similar size. This enables communication with home-theatre quality sound for indoor and outdoor notification applications.

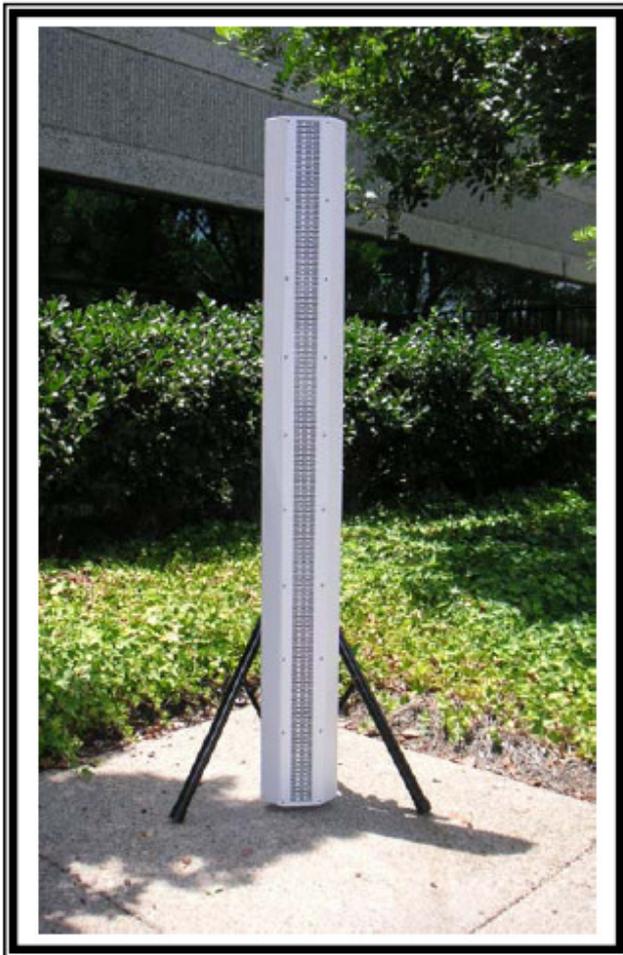


Applications:

- Increased worker and public safety through effective communications
- Emergency notification system (outdoors) for building, campus and waterfront use
- Physical security systems (indoors) with sensing for changes in ambient noise
- State/Federal/Local emergency announcing systems
- Training and detention facilities communication
- Stadium and arena facility communication



Model NEO350.5



Features:

Model NEO350.5

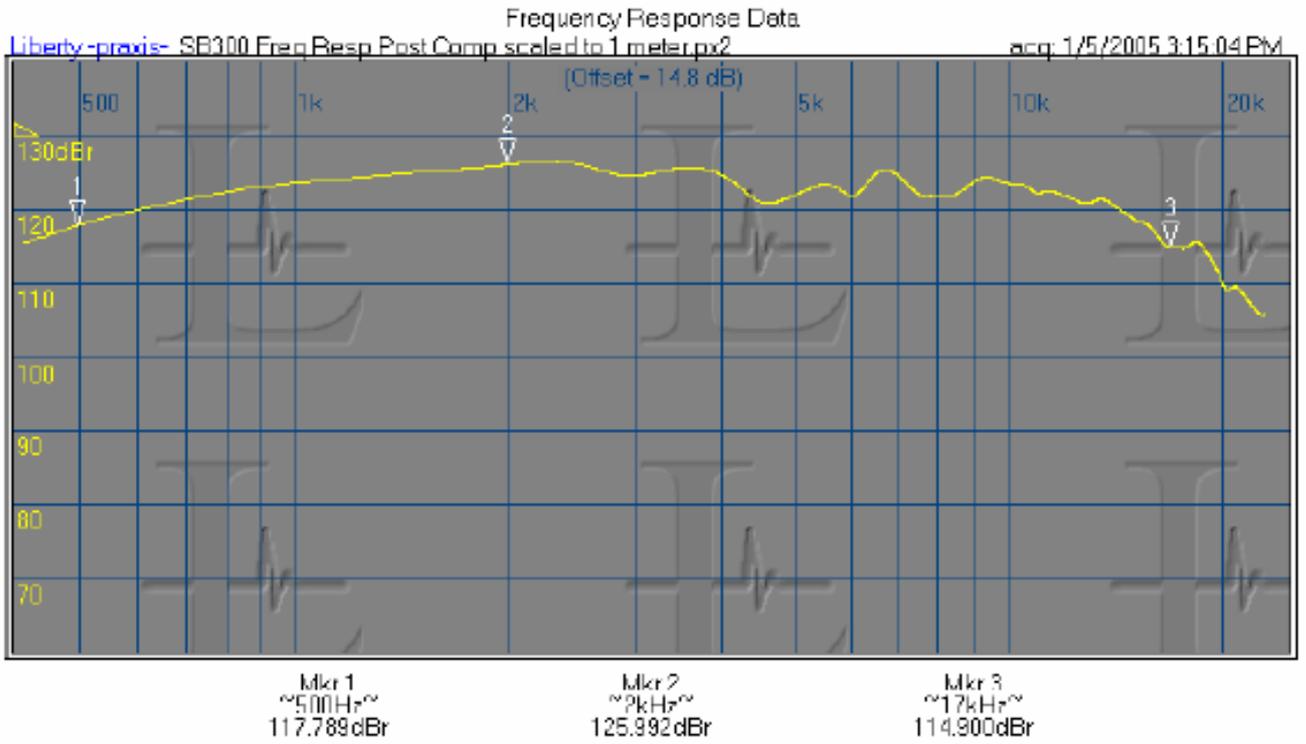
- Maximum intelligibility and greater SPL at long distances
- More durability and reliability – All-weather, ruggedized speaker system
- Ultra-thin, high output magnetic transducers
- Flexible infrastructure integration
- Maximum sensitivity and greater power handling capabilities

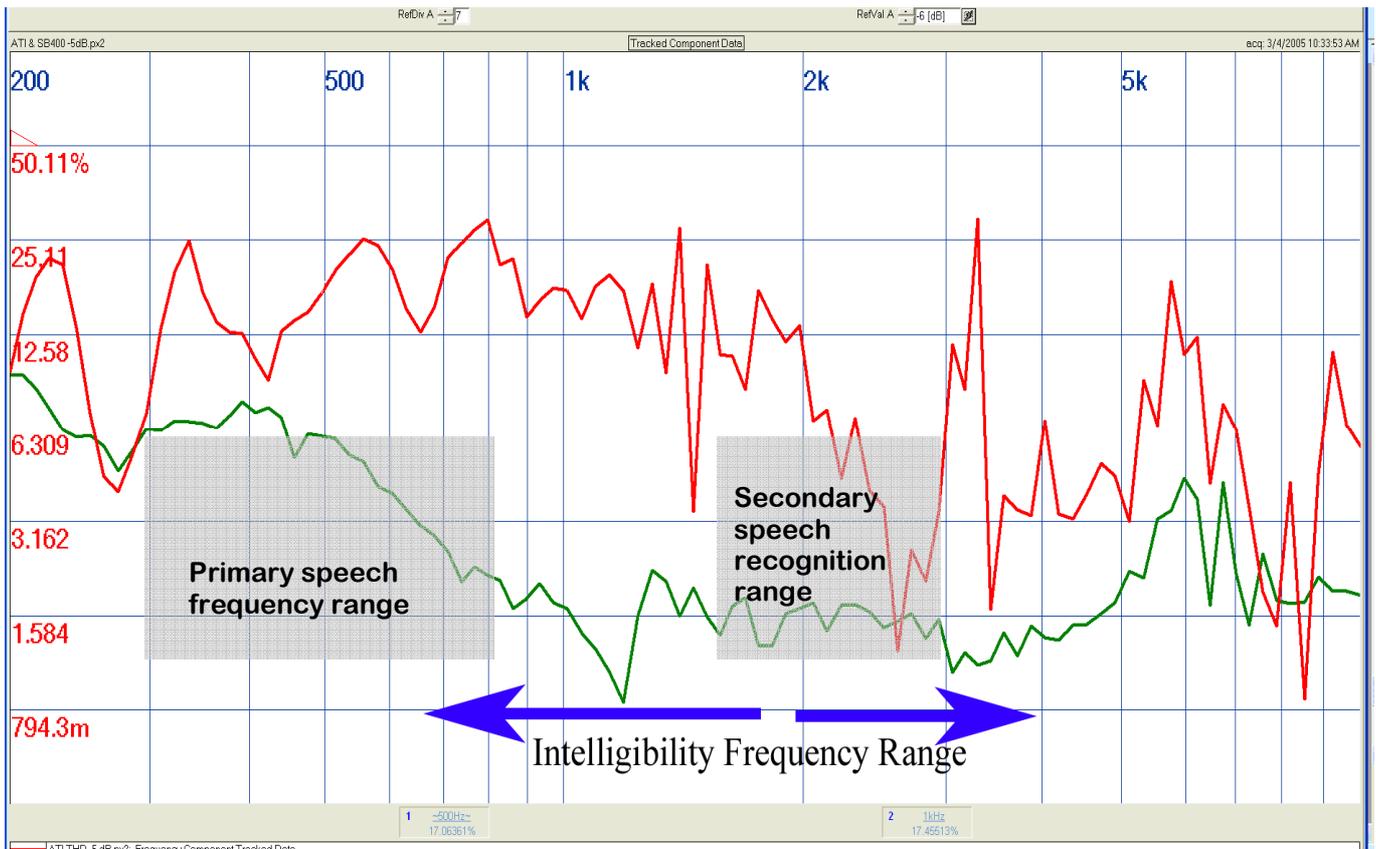
Technology Advantages

- Purely **resistive** amplifier load
- Very low THD, less than 1%
- Easily adaptable to form **acoustic arrays** with high **front to back ratios**
- Very **high power** handling capacity with superior **sound pressure** levels
- **Flat, thin** form factor
- Standardized sizes for ease of use across **multiple applications**
- Superior **phase coherency** with no **break-up** resonance
- Clean, **airy, transparent** and natural sound

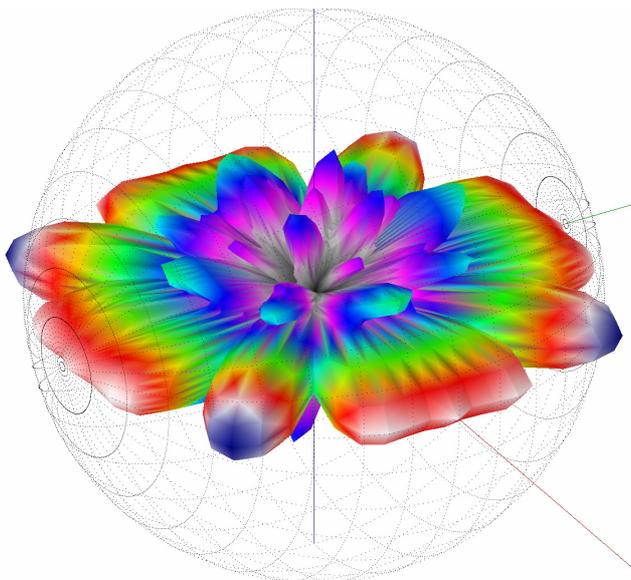
Model NEO350.5 TECHNICAL SPECIFICATIONS

EMITTER ARRAY DIMENSIONS:	Approximately 195 × 23 × 10 cm
EMITTER ARRAY WEIGHT:	Approximately 27 Kg
DCR:	3.4 ohms total
IMPEDANCE:	Non-reactive, purely resistive
FREQUENCY RESPONSE:	250 Hz to 17 kHz +/-6dB
DURABILITY:	System has a non-submersible water-resistant diaphragm, PEN polymer with rated continuous use temperature of 60°C
EMITTER, HARMONIC DISTORTION:	1.2% @ 2kHz at 100watts per emitter
DIRECTIVITY CHARACTERISTICS:	Horizontal, 1kHz +/- 111°; Vertical, 1kHz +/- 6° Horizontal, 2kHz +/- 75°; Vertical, 2kHz +/- 3°
POWER HANDLING:	300 watts RMS
SENSITIVITY:	95dB with one-watt input/1 meter
MAXIMUM SPL:	125dB





Four Neoplanar composite single pole radiation pattern



an Technology Corp. Todd Beauchamp