

# Lencore

THE LEADING MANUFACTURER OF SOUND MASKING SYSTEMS.

A GREAT SOUND MAKES NO NOISE®

## LENCORE SPECTRA – i.NET™ SOUND MASKING SYSTEM

### Operating Platform (OP) Specifications – Model G20

What makes Lencore's Spectra i.Net™ system intelligent is its intuitive technology and its infinite flexibility on an open-platform system to suit any project size. The combined innovations of the complete sound masking system – sound source, speakers, power supply; i.LON®, music page interface, equalizers, online Sound Manager control and one-touch remote control put the Spectra i.Net™ system on a new level of customization and performance.

The Spectra i.Net™ system is the most sophisticated masking system available when a network system is required. The system features fast, complete control over every sound frequency for masking. Extreme design flexibility, plus, easy system expansion with the addition of sound sources and speakers to the network. Sound control with the click of the remote or mouse, even off-site. Preferred, award-winning sound quality, only from Lencore's Systems.



OP is UL Listed and approved for use in air-handling spaces.

#### Sound Source: The OP

The heart of the Spectra i.Net™ system is the OP (Operating Platform), the primary sound source that produces, equalizes and distributes the sound for masking, music and paging. Each OP includes:

- Multiple, random sound masking sources, coupled with Lencore's E-sound™ technology, produce a sound quality that is random, making it exceptionally comfortable environment.
- Independent equalizers for unprecedented tuning where every channel of the system has a separate and independent 1/3<sup>rd</sup> octave band equalizer or parametric equalizer. Sound frequencies and contour can be adjusted and set to any point on the acoustical curve, from 20 Hz to 20 kHz, making the Spectra i.Net™ the first networked sound masking system to make fine-tuning the entire spectrum of sound possible.

The network is intelligent enough to bypass any failure in the system to keep communicating throughout the entire network. Competitor's point-to-point networks can not achieve this level of connectivity and diagnostic control.

#### Additional OP Features and Capabilities:

Gathers instructions from the remote control or i.LON® and sends information and directions up to 199 OPs within the network for system tuning and modifications.

Displays information on its integrated LCD screen, including the specific address of the respective enclosure. This address aids in locating the correct OP in the ceiling plenum, and eliminates the need for as-built drawings when checking or modifying the system.

Checks (during a diagnostic test) each OP for system performance, including the operation of the network, program, memory, power, and characteristics of sound masking.

#### Extreme Flexibility:

Groupings of sound sources and channels let you customize an almost limitless amount of zones for masking, paging and music, while maintaining the advantages of complete networked operation and control.

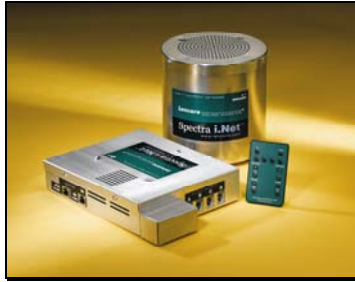
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## TECHNICAL SPECIFICATIONS

**Enclosure: OP enclosure is brushed aluminum**  
**Dimensions: 10" x 7" x 1 7/8"**

### Noise Generator:

- Octave bands from 25Hz to 20,000Hz
- Parametric bands from 20Hz to 20,000Hz
- Voltage: 48 Volts DC
- Contour Adjustments
- Spectrum adjustment shall meet acoustical preferred curve

### Spectrum Shaping:

- Units are able to be shaped with a 1/3 band octave equalizer
- Units are able to be shaped with a parametric equalizer
- Equalizers cover the full spectrum to manipulate the entire spectrum from 20Hz to 20KHz

### Wire Requirements:

16 gauge, plenum rated, stranded, 2-conductor wire (for power supply to OP).

Cat 5e cable or equivalent, 3 and 4 twisted pair, with standard RJ12 & RJ45 connectors.

- 3 twisted pair (audio cable and speaker cable)
- 4 twisted pair (data cable)

### Remote Infra-Red Volume and Contour Control:

Immediate volume and contour control adjustments for masking, paging and music. Point the remote to a wall mounted, infrared receiver panel or directly at an individual OP.

### Paging Input:

#### INPUTS

Telephone page input  
Program input  
Aux input

- Input sensitivity and impedance 600 ohms, balanced.
- MPI PBX Trunk Power 7.5V, 4AMPS

### Paging Equipment:

If paging option is required, see product sheet for Lencore's Music Page Interface (MPI).

Masking/Paging Units are UL Listed  
for use in air handling spaces

### Output Adjustments:

- 1/3 octave band EQ for entire spectrum (25Hz- 20KHz). Meets ANSI specification for bands.
- Parametric EQ for entire spectrum (20Hz-20KHz).
- Volume control for individual channels, groups/zones, or global for sound masking, paging and music.
- Contour control for individual channels, groups/zones or global for sound masking.
- EO control for individual OP's or global for paging/music.
- EO control for individual channels, groups/zones or global for sound masking.
- Programming of groups and zones.

### Integration of Separate Paging and Music Channels:

Each channel can be digitally controlled for zone management and changed on the fly without any change in wiring.

### Program Memory:

Nonvolatile for one year minimum, without power. When re-energized after a power outage, control starts last saved savings.

### Other Systems Also Available

Spectra i.Net™ (Networked); Spectra®,  
CrossNetOne™ (Networked), CrosswaysOne™

In-plenum and direct field  
all available with paging/music.