

# SPECTRA – i.Net®

## PRODUCT SHEET & SPECIFICATIONS

# LOCAL/GLOBAL MUSIC PAGE INTERFACE (MPI) (MODEL G505L/G505G)



### FUNCTION

Lencore's Local Music Page Interface (MPI) allows for priority paging and replaces all the bulky head end equipment that is typically associated with music and paging systems. When connected to Lencore's Spectra i.Net® System, programming can be set for up to 1.5 million square feet. The MPI allows the ability to use up to 99 individual zones for paging, using standard DTMF tones. The system is also programmed for all-call emergency broadcast paging.

Utilizing a client's existing telephone system (with open ports across multiple buildings), the Global MPI allows a user to send an all-call page to every connected building at once. This allows real time communication for company or campus wide announcements. However, in the case of a localized emergency the system's tiered paging provides for a top priority, emergency microphone page override per station.

The unmatched capabilities of the Global/Local MPI combination allows for crystal clear broadcasts and emergency communications, regardless of whether the facilities are located across the street from each other, across the country or around the world.

When used with Lencore's Spectra i.Net® System, the user friendly web interface allows for secure 24/7 access to the system and the ability to view system settings, set timed events, and run system diagnostics from virtually anywhere.

The Spectra i.Net® MPI incorporates Point Z™ technology allowing each individual speaker channel to carry up to 10 programmable zones. Paging has never been so versatile & clean.

The creation, modification, addition and deletion of zones or groups for paging and masking can be easily controlled through the i.LON's® web browser using the included Lencore Sound Manager. No proprietary software needs to be installed on the client's side, eliminating security and migration issues. The Lencore Spectra i.Net® System is an open platform system. In addition, volume and equalizer settings for paging and music can be programmed through the Sound Manager or Spectra i.Net® Reports offering tremendous adjustment and control capabilities with unprecedented flexibility.

**Adaptive Equalization:** The unmatched capabilities and superior paging quality of Lencore's system automatically compensates and readjusts for frequency line loss while ensuring a quality signal that is continuously and uniformly broadcast and distributed throughout the entire system. Essentially this means that throughout the miles of audio wire, line loss will be virtually negligible. This results in a crystal clear page whenever you need it, wherever you are in your facility.

The MPI unit typically installs in the Telephone or IT closet. The MPI accepts a POTS appearance line for all-call and zoned telephone paging. In addition, there are left and right audio inputs for music, all-call page, microphone input and testing input.

Model

# G505L G505G

## LOCAL/GOBAL MUSIC PAGE INTERFACE (MPI)

### – PAGING VOLUME ADJUSTMENTS

- + Individual channels
- + Maximum output – 5.3 Volt RMS at speaker terminal
- + Attenuation range – 48 dB, in 1 dB steps, plus a mute setting

### – PAGING ZONES

- + Individual channel, groups or global paging zones
- + Point Z™ Technology (Each channel can carry 10 programmable zones)

### – PAGE TESTING SETTINGS

- + Service Button 1 - starts All Call page and set to on or off  
Used for sending continuous audio over inputs for testing
- + Service Button 2 - sends test audio signal over page lines

### – LED GUIDES FOR AUDIO INPUTS

On back of the MPI unit there are two potentiometer to adjust audio inputs for both paging and music. The LED displays on the front of the unit provides visual confirmation that the audio inputs are in range.

- + LED's 1 (Page) - Yellow light: Tel/Audio input too low  
Blue Light: Good  
Red Light: Hot
- + LED's 2 (Music) - Yellow light: Tel/Audio input too low  
Blue Light: Good  
Red Light: Hot

### – PAGING /MUSIC VOLUME ADJUSTMENTS

- + Independent channels
- + Maximum output – 5.3 Volt RMS at speaker terminal
- + Attenuation range – 48 dB, in 1 dB steps, plus a mute setting

### – PAGING/MUSIC ZONES

- + Individual channel, groups or global music zones

### – PAGING/MUSIC OCTAVE EQUALIZER

- + One page/music equalizer for all channels
- + 10 bands, 31 Hz to 16 kHz, each user adjustable by ±5 dB in 1 dB steps

### – POWER SUPPLY REQUIREMENTS

- + Input from building power – 100-240 VAC,, 50-60 Hz

### – DIMENSIONS

6" x 8 3/8" x 1 7/8"

### – ELECTRICAL SPECIFICATIONS

Input voltage – 7.5 Volts DC  
Input current – 333 milliamps  
Power usage – 2.5 Watts  
Power jack – Mates with 2.1 mm inner  
5.5 mm outer  
11 mm plug length  
On/Off slide switch

### – TELEPHONE PAGE USAGE

- + Lift telephone receiver
- + Dial access code – (\*) = Backspace
- + Wait for short dial tone
- + Dial two digit paging zone number and the # key or
- + Dial oo# for all call page
- + Wait for short beep
- + Issue page
- + Hang up – (\*) = Hang up after zone is dialed

### – INPUTS

LonWorks® network. Connects to i.LON® Internet Server.  
Screw terminals.

- + Audio/Mic input - Microphone input allows stationary mic to be used for MPI input - Dry contact switch allows use to override telephone input (mic input requires a mic pre-amp)
- + Dry Mic Contact Switch - Sends all call page to OP's when closed (overrides tel input). All call off when relay is open
- + Audio/Mic-Tel Switch - Switches between inpus (dry contact overrides swtich)

### – PAGE

- + POTS line telephone input. RJ11 connector
  1. 2 wire (tip and ring) analog appearance
  2. Configured to be loop start
  3. Battery voltage is 48 volts
  4. Loop current is 23 milli amps
  5. Must have DTMF signaling capability
  6. Must have hang-up (winking) supervision

Model

**G505L**  
**G505G**

## LOCAL/GLOBAL MUSIC PAGE INTERFACE (MPI)

### – STEREO / MUSIC

- + Left channel, 10k ohm input impedance, unbalanced, single ended RCA jack (phono connector)
- + Right channel, 10k ohm input impedance, unbalanced, single ended RCA jack.

Note: Left and right channels are combined to form one music input.  
All music inputs using the RCA jacks are single ended inputs.



### – RECOMMENDED SETTING OF INTERNAL POTENTIOMETER OF MUSIC INPUT

- + USA professional audio, +4 dBu, 1.228 Vrms  
10 o'clock position (approximate)
- + Consumer audio, -10 dBV, 0.316 Vrms  
3 o'clock position (approximate)
- + Tungsten T3 PDA,  
5 o'clock position (approximate)
- + Ipod,  
3 o'clock position (ipod volume set to 3/4)
- + 1 Vrms signal generator,  
10 o'clock position (approximate)
- + 0.7746 signal generator,  
11 o'clock position (approximate)

Ex: Set POT to 10 o'clock if input is 1 Vrms  
Set POT to max if input is .25 Vrms  
\*Do NOT exceed 1 Vrms input

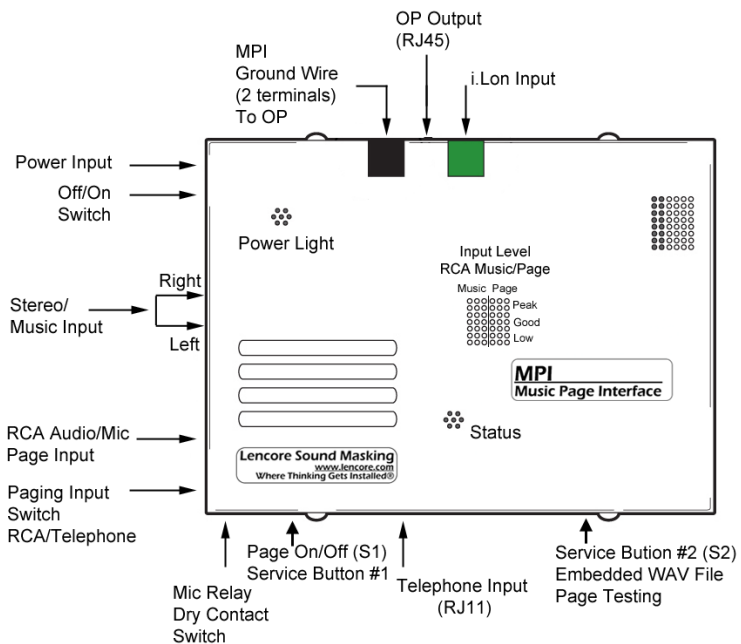
### – OUPUTS

- + Cat5e data cable, RJ45 connector. Connects to OP's
- + Page output, pins 4 and 5 of RJ45 is a balanced output
- + Music output, pins 7 and 8 of RJ45 is a balanced output
- + Two ground (common) screw terminal block. Connects to (-), ground, of first OP

## LOCAL/GLOBAL MUSIC PAGE INTERFACE (MPI)

### – MPI FEATURES & BENEFITS

- + Local paging via telephone - up to 100 zones
- + Global input for multi-building, campus wide paging
- + Audio/mic or canned announcement input for emergency notification
- + Service buttons #1 and #2 allows for full test for page continuity over entire system
- + Music input to easily play music over system or zone
- + AGC (Automatic Gain Control) implemented to ensure quality paging
- + Priority setup for global telephone, local telephone, local mic/page/audio, local audio and global audio input



- + Variable input control for music and RCA audio/mic/paging input with LED metering for proper input voltage
- + LED display on front displays input levels as low, hot or good
- + Variable input controls and metering capabilities ensures clean input and quality connections

