i.Net
SOUND MASKING ONLY HEADEND RACK UNIT

MODEL G8350

FUNCTION

Lencore's i.Net Sound Masking Headend Rack unit replaces all the bulky headend equipment that that is associated with sound masking systems. With the i.Net Sound Masking Headend Rack unit there is no need for amplifiers, separate equalizers, special switching equipment or matching vendors for compatible product interfaces. The unit's technology is so sophisticated that it can allow zone additions, modifications, deletions and other changes to the system on the fly, without rewiring. This eliminates the need for running multiple home runs back to the electrical closet or through building risers to create separate or additional zones.

The G8350 allows the ability to use up to 99 individual zones for masking. The system's easy to use full one-third octave band equalizer can be adjusted to either individual zones or all zones and provides exceptional fine tuning capabilities.

G8350 meets the UL 2572 and UL 864 standards and therefore is accepted to interface with a fire alarm control panel (FACP) with the intent to shutdown the masking in the event of an emergency.

FEATURES

+ Front Panel push buttons for user input and setup.
+ Integrated LCD screen for displaying information.
+ Protocessor - Used to control the networked system (offers exceptional features, solid construction, plus the flexibility to monitor and control the sound masking from virtually anywhere).
+ Rack or Wall Mountable (hardware included)
+ Meets UL 2572 and UL 864 standards for Mass Notification Systems
+ Meets UL 864 for control units and accessories for Fire Alarm Systems

ENCLOSURE

+ Powder coated aluminum
+ Dimensions: 1RU height 17.25" L x 6" D x 1.75" H
+ Weight: 3lbs

ELECTRICAL SPECIFICATIONS

+ Input – 100-240 VAC, 50-60Hz, 24W
+ IEC power cord included

INPUTS

+ Power input
+ UPS power input
+ Network connection
+ Mute masking
+ Supervised N.O. dry contact from
+ UPS Connection - 24VDC, 24W Max

WIRING AND CABLE CONNECTORS

+ Cat5e data cable, RJ45 connector. Connects to OP's

HEAT DISSIPATION

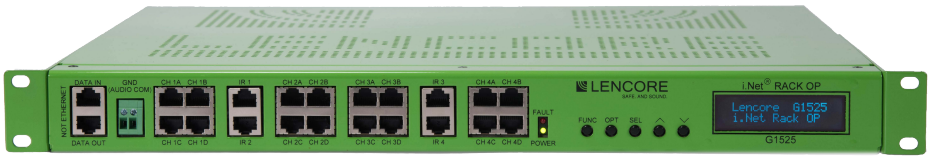
+ 82 BTU/hr max

INDUSTRY STANDARDS

+ UL 2572 / ULC-S576
+ UL 864
+ UL 6500 or ANSI/UL 60065: Approved for use as audio/video equipment. US and Canada.

i.Net
QUAD OP

MODEL G1525



FUNCTION

The primary sound source of the i.Net system is the Quad OP (Operating Platform) - A 1RU rack mount unit that offers 4 OP's in 1, that produces, equalizes and distributes the sound. Each Quad OP includes:

– Multiple, random sound masking sources, coupled with Lencore's 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 1/3rd 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 i.Net the first networked sound masking system to make fine-tuning the entire spectrum of sound possible.

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

FLEXIBILITY

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

FEATURES AND CAPABILITIES

+The protocessor sends information and directions to each OP within the network for system tuning and modifications.

+The OP displays information on its integrated LCD screen, including the specific address of the respective enclosure and diagnostic information.

+The OP checks during a diagnostic test for system. performance, including the operation of the network, program, memory, power, and characteristics of sound masking.

+Each channel on the OP functions independently, and provides non-coherent random sound sources per OP.

+Each OP is exactly incoherent from all other OP's.

+Front Panel switches for system configuration.

+Capability to daisy chain multiple units.

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.

i.Net QUAD OP

MODEL G1525

ENCLOSURE

+ Powder Coated Aluminum
+ Dimensions – 17.25"W x 14"D x 1.75"H
+ Weight – 5lbs

SOUND GENERATOR

+ Octave bands – 25Hz to 20,000Hz
+ Parametric bands – 20Hz to 20,000Hz
+ Contour Adjustments
+ Spectrum Adjustment – Meets Acoustical Preferred Curve

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
+ EQ control for individual OP's or global for paging/music
+ EQ control for individual channels, groups/zones or global for sound masking
+ Programming of groups and zones

SPECTRUM SHAPING

+ Units are able to be shaped with a full 1/3 band octave equalizer (30 bands)
+ 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

+ Power – IEC Cord
+ Data – Cat 5e cable or equivalent, 4 twisted pair, with standard RJ45 connectors

PROGRAM MEMORY

+ Non-volatile for one year minimum, without power

REMOTE INFRA-RED VOLUME/ CONTOUR CONTROL

+ Remote volume and contour control adjustments for masking, paging and music. Point the remote to a wall mounted, infrared receiver panel or to make immediate adjustments

PAGING EQUIPMENT

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

ELECTRICAL SPECIFICATIONS

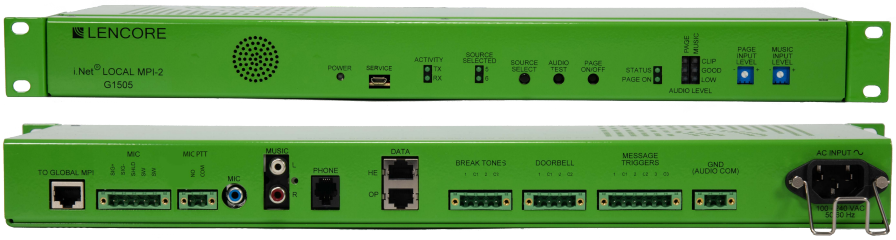
+ Input: 100-240 VAC 50/60 Hz
+ Power: 38W typ, 161W max
+ IEC power cord: Included

HEAT DISSIPATION

+ 130 BTU/hr typ
+ 549 BTU/hr max

i.Net
MUSIC PAGE INTERFACE LOCAL RACK UNIT (MPI-2)

MODEL G1505



FUNCTION

Lencore's Music Page Interface (MPI) Rack Unit replaces all the bulky headend equipment that that is associated with music and paging systems. With the MPI, there is no need for additional cable home runs, amplifiers, separate equalizers, special switching equipment or matching vendors for compatible product interfaces. The MPI's technology is so sophisticated that it can allow zone additions, modifications, deletions and other changes to the paging system on the fly, without rewiring. This eliminates the need for running multiple home runs back to the electrical closet or through building risers to create separate or additional zones. The MPI allows the ability to use up to 99 individual zones for paging using standard DTMF tones through a POTS telephone line. When the MPI is connected to the i.Net's web appliance, programming can be set for up to 1.5 million square feet of space through a single device.

FEATURES AND CAPABILITIES

+ Ability to play background music, break tones, pre-recorded messages and doorbell chimes.
+ One direct mic input and a second line-level mic input for paging.
+ Front panel LEDs. Various front panel LEDs indicate various functions and activity of the unit.
+ Analog phone input.
+ Built-in speaker for testing/troubleshooting.
+ Audio Test button. The Audio Test button is used to play pre-recorded music for testing/troubleshooting the paging lines.
+ Single turn pot to adjust the paging and music input signals levels.
+ Ability to connect a Global MPI.

DIMENSIONS

+ 19"L x 7"D X 1.75"H

ELECTRICAL SPECIFICATIONS

+ Input Voltage - 100-240 VAC, 50/60 Hz

AGENCY LISTINGS (PENDING)

+ UL 6500 or ANSI/UL 60065: Approved for use as audio/video equipment. US and Canada

i.Net MUSIC PAGE INTERFACE LOCAL RACK UNIT (MPI)

MODEL G1505

INPUTS

+ Power input.
+ Analog phone line input (RJ11)
+ Ground 2-pos terminal block (screw terminals)
+ Microphone inputs (individual wires and RCA)
+ Music inputs (RCA)
+ Global MPI (RJ45)
+ Data from the head-end (RJ45)
+ Break tones 4-pos terminal block (screw terminals)
+ Doorbell 4-pos terminal block (screw terminals)
+ Message Triggers 6-pos terminal block (screw terminals)

OUTPUT

+ Data output to OPs (RJ45) with two audio sources

LEDS

+ Power – solid when the unit is powered
+ Status – Solid when paging and when an IR remote button is pressed
+ Page On – solid during an active page
+ Audio input level – two sets of three LEDs for paging and music input level detection:
  - Yellow = low or no input
  - Blue = good audio level
  - Red = audio input too high.
+ Activity:
  - Rx – blinks when Neuron is receiving data
  - Tx – blinks when Neuron is transmitting data.

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
+ Input impedance is 10K ohms

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

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

i.Net
MUSIC PAGE INTERFACE GLOBAL RACK UNIT (MPI-2)

MODEL G1510

FUNCTION

Used in conjunction with Lencore's Local MPI G1505 and 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 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 MPI unit typically installs in the Telephone or IT closet. The MPI accepts a POTS line for all-call telephone paging, a microphone input, and there is one RCA input for an all-call microphone page (requires Lencore's pre-amp G780).

FEATURES AND CAPABILITIES

+ One direct mic input and a second line-level mic input for paging.
+ Front panel LEDs. Various front panel LEDs indicate various functions and activity of the unit.
+ Analog phone input.
+ Built-in speaker for testing/troubleshooting.
+ Single turn pot to adjust the paging input signal levels.
+ Ability to connect a Local MPI.

DIMENSIONS

+ 19"L x 7"D X 1.75"H

ELECTRICAL SPECIFICATIONS

+ Input Voltage - 100-240 VAC, 50/60 Hz, 12W

i.Net MUSIC PAGE INTERFACE GLOBAL RACK UNIT (MPI)

MODEL G1510

INPUTS

+ Power input.
+ Analog phone line input (RJ11)
+ Ground 2-pos terminal block (screw terminals)
+ Microphone inputs (individual wires and RCA)
+ Local MPI (RJ45)

LEDS

+ Power – solid when the unit is powered
+ Status – Solid when paging and when an IR remote button is pressed
+ Page On – solid during an active page
+ Audio input level – for paging input level detection:

  Yellow = low or no input
  Blue = good audio level
  Red = audio input too high.
+ Activity:

  Rx – blinks when Neuron is receiving data
  Tx – blinks when Neuron is transmitting data.

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

i.Net
SMART ROUTER
MODEL G145

FUNCTION
The i.Net Smart router ensures quality data transmission, paging and music integrity across long cable runs (3000 feet or more). Each router terminates and rebroadcasts paging, audio and control network (LON) signals back to full strength, allowing the system wiring network to work at best practices standards. The Smart Router will automatically bypass the music and page audio if the Smart Switch closes due to a broken data cable. The Smart Router works with Lencore's G8350 Head end Rack Unit.

FEATURES AND CAPABILITIES
+ Amplifies paging and music signals.
+ Repeats the LON signal.
+ Properly terminates the Data signals.
+ Allows adjustment to the amount of amplification to compensate for cable loss for various lengths of cable.

ENCLOSURE
+ Powder coated aluminum
+ Dimensions: 17.25" W x 1.75" H x 6.65" D
+ Weight: 3lbs

ROUTER INPUT VOLTAGE / POWER
+ 115 or 208 VAC
+ 24VDC UPS Connection

POWER INPUT
+ 24W

INPUTS / OUTPUTS
+ Data Cat 5e, RJ45

Note: Never plug any Smart Router into a computer or network or like device other than the i.Net equipment as damage to the computer or like equipment could occur.

i.Net
AUDIO INTERFACE

MODEL G3475

FUNCTION

The i.Net Audio Interface is used to send line level audio from the Lencore system to an external device such as an amplifier. The Audio Interface converts and transformer isolates the speaker level audio from an OP to line level audio. The Audio Interface can be used with an i.Net inplenum OP.

Connections to the i.Net Audio Interface are simple. One RJ45 cable from any i.Net OP speaker channel to the input of the i.Net Audio Interface and one connection (two-wire, 1/8" jack, or RCA) from the i.Net Audio Interface audio output to the external device's line level input.

The i.Net Audio Interface is a rack mountable unit and is only 1 rack unit in height. The i.Net Audio Interface does not require an external power source.

ENCLOSURE

+ Dimensions: 17.25" L x 6" D x 1.75" H
+ Weight: 3 lbs.
+ Housing: Aluminum

WIRE REQUIREMENTS

+ Cat 5e cable or equivalent for audio input

OUTPUT

+ Line Level
+ Two-wire screw terminals
+ 1/8" jack
+ RCA

i.Net
OPERATING PLATFORM

MODEL G525

FUNCTION

The heart of the i.Net® 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 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 1/3rd 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 i.Net the first networked sound masking system to make fine-tuning the entire spectrum of sound possible.
–The multidrop system and network is intelligent enough to bypass any failure in the system to keep communicating throughout the entire network. Point-to-Point networks can not achieve this level of connectivity and diagnostic control.

FLEXIBILITY

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

FEATURES AND CAPABILITIES

+ The remote control or i.LON sends information and directions up to each OP within the network for system tuning and modifications.
+ The OP 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 when checking or modifying the system.
+ The OP checks during a diagnostic test for system performance, including the operation of the network, program, memory, power, and characteristics of sound masking.
+ Each channel on the OP functions independently, and provides four non-coherent random sound sources per OP.
+ Each OP is exactly incoherent from all other OPs

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.

i.Net OPERATING PLATFORM

MODEL G525

ENCLOSURE

+ Brushed Aluminum
+ Dimensions – w 10" x h 7" x d 1 7/8"
+ Weight – 2lbs

SOUND GENERATOR

+ Octave bands – 25Hz to 20,000Hz
+ Parametric bands – 20Hz to 20,000Hz
+ Voltage – 48 Volts DC
+ Contour Adjustments
+ Spectrum Adjustment – Meets Acoustical Preferred Curve

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
+ EQ control for individual OP's or global for paging/ music
+ EQ control for individual channels, groups/zones or global for sound masking
+ Programming of groups and zones

SPECTRUM SHAPING

+ Units are able to be shaped with a full 1/3 band octave equalizer (30 bands)
+ 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

+ Power – 16 gauge, plenum rated, stranded, 2-conductor wire (for power supply to OP)
+ Audio & Data – Cat 5e cable or equivalent, 4 twisted pair, with standard RJ45 connectors
- 4 twisted pair (audio cable and speaker cable)
- 4 twisted pair (data cable)

PROGRAM MEMORY

+ Non-volatile for one year minimum, without power

REMOTE INFRA-RED VOLUME/ CONTOUR CONTROL

+ Remote 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 to make immediate adjustments

PAGING EQUIPMENT

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

AGENCY LISTINGS

+ UL 2043: Approved for use in air-handling spaces. US and Canada.
+ UL 6500 or ANSI/UL 60065: Approved for use as audio/video equipment. US and Canada.

MASKING/PAGING UNITS ARE UL LISTED FOR USE IN AIR HANDLING SPACES

i.Net
IR HUB / IR WALL CONTROLLER

MODELS G964 / G42

FUNCTION

Each OP (sound source) of the i.Net System has an integrated IR Port. This port can be connected to the IR Hub (Model #G964) and IR Wall Controller (Model #G42) to provide up to four individual audio channel controls per i.Net OP.

Using an IR Hub channel, one can make volume and contour control adjustments for masking, paging and music by pointing a remote control at the IR Wall Controller.

This type of application can be typically used for various spaces such as private offices, conference rooms, healthcare facilities, and areas where remote control adjustments are required.

ENCLOSURE

+ Aluminum Housing
+ Dimensions – 7" X 6" X 1 3/4"

WALLPLATE

+ Dimensions - 2 3/4” 4 1/4”

POWER REQUIREMENT

+ 9-48 VDC Screw Terminals

PAGING INPUT

+ Via OP and MPI

WIRE REQUIREMENTS

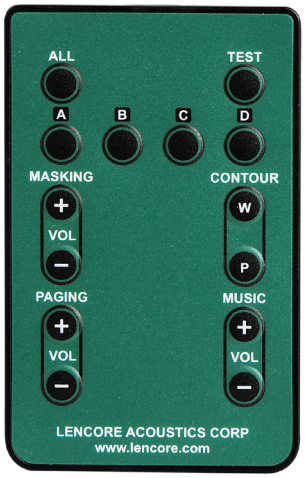
+ Cat 5e cable or equivalent
+ 4 Twisted pair with standard RJ 45 connector

AGENCY LISTINGS

+ UL60065
+ UL2043

i.Net
REMOTE CONTROL

MODEL G16



FUNCTION

Available with the i.Net System is a hand-held remote control that enables end users to make immediate volume and contour control adjustments for masking, paging and audio. Point the remote to a wall mounted, infrared receiver panel or directly at an OP to make changes or establish field settings for the masking, paging or audio. The molded plastic slim style hand held remote adjusts volume and contour for masking, paging and audio at OP location by channel or for entire OP.

The remote can also be configured for use at a designated wall location if desired.

CONSTRUCTION

+ Molded plastic rubber with coated resin adjustment buttons
+ Size – 2” w x 3.5” h
+ Thickness – ¼”
+ Battery Replacement – Replace battery with a 3V CR2025 Lithium battery

i.Net
IR TOUCH PAD CONTROLLER

MODELS G41

FUNCTION

The i.Net® IR Touch Pad Controller provides wall access and immediate adjustments for the i.Net® Sound Masking, Paging and Music System. The Touch Pad option is often chosen for spaces such as conference rooms and board rooms, or any area where individualized and on-going adjustments are desired.

Located on the wall plate used for the Touch Pad is an LED light indicator that identifies the current function of the system that is being adjusted. The system functions that can be adjusted are masking, paging, music, test and IR/ALL.

To use the Touch Pad use the left and right arrow keys in the center of the pad to select the function types (masking, paging, music, test, IR/ALL) that you wish to adjust. Once the system function is selected, use the up and down arrows to make increases or de-creases in the volume adjustments.

To mute and un-mute the system, simply press the Mute/Un-mute button located at the bottom of the wall plate. The IR/All function enables end users to mute or unmute the masking, paging and music all at the same time.

Touch pad wall plate can be attached to vertical surface with two screws.

WALLPLATE

+ Dimensions – 2 ¾”w x 4 ¼”h
+ Touch pad wall plate can be attached to vertical surface with two screws

WIRE REQUIREMENTS

+ Cat 5e cable or equivalent 4 Twisted pair
+ Standard RJ45 connector

INSTALLATION

To connect to the i.Net® System’s OP, use a patch cable using Cat 5E with RJ45 connectors and connect the wire from the OP’s IR Port to the back of the wall plate. If an IR Hub has been specified for multiple controls, the patch cable can be run from the OP to an IR Hub and then to each chan-nel of the IR Hub (A, B, C, D).

i.Net
SPEAKERS

MODEL G545 / G585
(*see page 2 for various models)

FUNCTION

The i.Net® speakers enable the masking to be distributed uniformly throughout the space. Typically hung above the ceiling tiles, the speakers fill the plenum with sound that gently filters into the environment below to create speech privacy. i.Net speakers are perfectly matched for the OP to ensure the highest quality of sound masking, paging and audio.
Speakers used in the i.Net systems are configured with integrated RJ45 connections for plug and play and ease of installation. The speakers feature an aluminum housing, 5-inch wide dispersion and weigh approximately three pounds each. There are two speaker models available (6" & 4") to accommodate various plenum depths. Speakers distribute sound masking, paging and/or music.

Note: A variety of assembly options are available for these speakers; please refer to the 3rd page of this data sheet for options.

*Speaker comes with a 23" length of chain

*Standard speakers come in an aluminum finish. Custom painting is available at an up charge.

SPEAKER ENCLOSURE

+ Aluminum Housing
+ Galvanized Perforated Grill
+ Lightweight Mounting Chain
+ Two speaker models available – 6" & 4"

Speakers are UL Listed for use in air handling spaces.

SPEAKER MODEL DIMENSIONS

G545
Height – 6"
Diameter – 6"
Weight – 3lbs

G545-C / G545-HB
Height – 6"
Diameter – 6"
Weight – 4lbs

G585
Height – 4"
Diameter – 6"
Weight – 3lbs

G585-C / G585-HB
Height – 4"
Diameter – 6"
Weight – 4lbs

LOUDSPEAKER

+ 5-inch - wide dispersion
+ Power Rating – 10 watts
+ Frequency Response – 60 – 13,000 Hz
+ Impedance – 32 Ohms
+ Resonance – 85 Hz
+ Magnet Weight – 10 oz
+ Magnet Structure Weight – 26 oz
+ Cone – Formed Fiber
+ Cone Suspension – High Compliance Foam
+ Voice Coil – 1-inch diameter
+ Voice Coil Form – Anodized Aluminum

PAGING INPUT

+ Via OP & MPI

POWER REQUIREMENT

+ Powered by OP

i.Net SPEAKERS

MODEL G545 / G585

OUTPUT ADJUSTMENT

+ Optional Inline (0 to -12dB)

WIRE REQUIREMENTS

+ All wire must be plenum rated and UL listed
+ Speakers use Cat 5e or equivalent, 4 twisted pair and RJ45 connectors
+ Straight cable – Pin 1 to Pin 1, Pin 2 to Pin 2, etc

OTHER SYSTEM REQUIREMENTS

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

AGENCY LISTINGS

+ UL 2043: Approved for use in air handling spaces. US and Canada.
+ UL 6500 or ANSI/UL 60065: Approved for use as audio/video equipment. US & Canada.
+ UL 1480: Approved for use as speakers for use in fire alarm, emergency, and commercial and professional use. US and Canada.

HOW TO SPECIFY A MODEL #:

I	II	III	IV	V	VI
Lid Type	**Specify Unit Height**	**Jack Chain or Airplane Wire**	**Specify Hanging Style** (Not available on desktop units)	**Specify Color**	**Specify Wire Box** If local code dictates
Leave blank for standard lid	G545 (6”)		Leave blank for standard hanging method		Leave blank for power wires with no box
LG035 (ceiling plate)	G585 (4”)		**TRI** for tripod hanging or 3-notch chain configuration **U** for Universal detached tripod hanging chain (up or down)		**HB** - Handy Box Unit (ex. St. Louis, Miami, etc.)
		AW for air-plane wire	**INV** for inverted 3-notch chain		**C** - Air Tight Electrical Box Unit (ex. Chicago, etc.)
			INV1CHAIN for inverted single jack chain	**W** - White	
			SSL/SST for L/T-Mounting bracket	**B** - Black	*LG035-G545C not available in black

Example #1

G545-TRIHB - 6”Unit with Tripod Lid and Handy Box

Lid Type	Specify Unit Height	Jack Chain or Airplane Wire		Specify Hanging Style (Not available on desktop units)	Specify Power Wires Covered If local code dictates
	G545		-	TRI	HB

HB - Handy Box

C -Air Tight Electrical Box

TRI -Tripod/ U- Universal*

INV - Inverted

INVCHAIN - Inverted Jack Chain

LG035 - Ceiling Plate

SSL- L-Bracket

SST- T Bracket

*Universal Speakers have lances on top and bottom to hang upwards or downwards

LENCORE
COMFORT. PRIVACY. PRODUCTIVITY.

PRODUCT SHEET & SPECIFICATIONS

i.Net
DECORATIVE FIXED MOUNT ROUND SPEAKER

MODELS G870-W/G870-B

*W = white B = black

FUNCTION

The fixed mount round speaker offers a decorative, direct fired option when aesthetics is a concern. With more open environments and exposed ceilings becoming the norm, a decorative solution for sound masking has been difficult to find. The speaker is constructed of high quality plastic, delivers the superior sound quality Lencore is known for, and is easy to install. The speaker can be mounted to the ceiling, a wall , or a beam and allow for Cat5e connections directly to the speaker.

SPEAKER ENCLOSURE

+ Plastic Housing
  G870-W: White Housing
  G870-B: Black Housing
+ Grill: Metal screen, white or black with perforated grill
+ Wall Bracket: plastic

SPEAKER COVERAGE

+ 100 sq. ft. (nominal 10' speaker separation)

LOUDSPEAKER

+ Power Rating – 10 watt continuous, 20 watt peak
+ Frequency Response – 90-18 kHz
+ SPL for Masking Output: 90 dB
+ Impedance – 32 Ohms
+ Speaker Weight – 1.1 lbs
+ Overall Speaker Dimension – 4 3/4" (not including bracket)

AGENCY LISTINGS

+ UL1480

i.Net SPEAKERS

MODELS G870-W/G870-B

PAGING INPUT

+ Via OP & MPI

POWER REQUIREMENT

+ Powered by OP

WIRE REQUIREMENTS

+ All wire must be plenum rated and UL listed
+ Speakers use Cat 5e or equivalent, 4 twisted pair and RJ45 connectors
+ Straight cable – Pin 1 to Pin 1, Pin 2 to Pin 2, etc

OTHER SYSTEM REQUIREMENTS

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

i.Net
DECORATIVE PENDANT/INLINE SPEAKER

MODELS G875-W / G875-B INLINE: G875-INLINE-W / G875-INLINE-B

*W = white B = black

FUNCTION

The Pendant Speaker offers a decorative, direct fired option when aesthetics is a concern. With more open environments and exposed ceilings becoming the norm, a decorative solution for sound masking has been difficult to find.
The speaker is constructed of high quality plastic, delivers the superior sound quality Lencore is known for, and is easy to install. The Pendant Speaker comes with a gem box for Cat5e connections at the deck location which minimizes cable exposure for the client.
The inline speaker option also provides an additional volume control with a remote attenuator. 0 to -12dB adjustments can be made from the remote.

Note: The G875 ships with 12” of wire exposed with an additional 6 inches tucked in the Gem box. 18” total.

SPEAKER ENCLOSURE

+ Plastic Housing
  - G875-W: White Housing
  - G875-B: Black Housing
  - G875-INLINE-W: White Housing
  - G875-INLINE-B: Black Housing
+ Grill: Metal screen, white or black with perforated grill

SPEAKER COVERAGE

+ 100 sq. ft. (nominal 10’ speaker separation)

LOUDSPEAKER

+ Power Rating – 10 watt continuous, 20 watt peak
+ Frequency Response – 90-18 kHz
+ SPL for Masking Output: 90 dB
+ Impedance – 32 Ohms
+ Speaker Weight – 1.1 lbs
+ Overall Speaker Dimension – 5.5"

AGENCY LISTINGS

+ UL1480

PRODUCT SHEET & SPECIFICATIONS

i.Net
TANGENT SPEAKER

MODELS G950 / G950-B

FUNCTION

When a direct fired speaker or system is required due to site conditions or application need the i.Net Tangent offers a commercial grade direct fired speaker using higher quality construction and sound quality than competitive systems.
Installation is simplified using plug and play Cat 5e cable with standard RJ45 connections. The i.Net Tangent speaker is equipped with torsion springs to ensure a smooth installation in ceiling tile or gypsum board.

NOTE: Drop tile or ceiling thickness not to exceed ¾”

WIRE REQUIREMENTS

+ All wire must be plenum rated and UL listed
+ Speakers use Cat 5e or equivalent, 4 twisted pair and RJ45 connectors, 568B wiring

INSTALLATION

+ Assembly to fit into a 4½" round hole, cut into ceiling tile or gypsum. Two torsion springs spaced equidistant apart secure mounting.
+ Securing the speaker to the deck or using a tile bridge is dependant on local codes and is the responsibility of the installer to determine any additional fastening that needs to take place.

AGENCY LISTINGS

+ UL 6500 or ANSI/UL 60065: Approved for use as
+ audio/video equipment. US & Canada
+ UL 2043: Approved for use in air-handling spaces. US and Canada

TILE BRIDGE

The Tile Bridge is a load-bearing T-bar support designed to sustain the weight of an 7 1/8” or 4 1/2” speaker, grille and protection enclosure in suspended ceiling construction. Use of the Tile Bridge improves environmental safety and eliminates unsightly sag in 2’-by-2’ and 2’-by-4’ acoustic ceiling tiles. Sold Separately.

SPEAKER ENCLOSURE

+ G950:Aluminum Housing
+ G950-B: Aluminum Housing/Black grill
+ Grill: Metal screen, white or black with perforated 4” grill

SPEAKER COVERAGE

+ 100 sq. ft. (nominal 10’ speaker separation)

LOUDSPEAKER

+ Power Rating – 10 watts
+ Frequency Response – 90-18 kHz
+ SPL for Masking Output: 90 dB
+ Impedance – 32 Ohms
+ Speaker Weight – 1.1 lbs
+ Overall Speaker Dimension – 5.3"
+ Depth – 5"
+ Diameter (outside plate) – 5 1/4"
+ Diameter (can) – 3 7/8"

PRODUCT SHEET & SPECIFICATIONS

i.Net

UPWARD FIRING DECORATIVE PENDANT SPEAKER

MODEL G999, G999-B

(*B - Black)

FUNCTION

The i.Net® speakers enable the masking to be distributed uniformly throughout the space. Typically hung in open ceilings, the speakers fill the space with sound that reflects off the ceiling and gently filters into the environment below to create speech privacy. i.Net speakers are perfectly matched for the OP to ensure the highest quality of sound masking, paging and audio. Speakers used in the i.Net systems are configured with integrated RJ45 connections for plug and play and ease of installation. The speakers feature an aluminum housing, 5-inch wide dispersion and weigh approximately three pounds each. Speakers distribute sound masking, paging and/or music and are connected to a gem box.

SPEAKER ENCLOSURE

+ Aluminum Housing
+ Galvanized Perforated Grill

SPEAKER MODEL SPECIFICATIONS

+ Overall length: 24"
+ Speaker height: 6"
+ Speaker Diameter: 6"

GEM BOX SPECIFICATIONS

+ Height – 3”
+ Diameter – 4.5”

WEIGHT

+ 4lbs

LOUDSPEAKER

+ 5-inch - wide dispersion
+ Power Rating – 10 watts
+ Frequency Response – 60 – 13,000 Hz
+ Impedance – 32 Ohms
+ Resonance – 85 Hz

PAGING INPUT

+ Via OP & MPI

POWER REQUIREMENT

+ Powered by OP

WIRE REQUIREMENTS

+ All wire must be UL listed
+ Speakers use Cat 5e or equivalent, 4 twisted pair and RJ45 connectors
+ Straight cable – Pin 1 to Pin 1, Pin 2 to Pin 2, etc

INDUSTRY LISTINGS

+ ETL 62368-1

LENCORE

COMFORT. PRIVACY. PRODUCTIVITY.

i.Net
CEILING PLATE SPEAKERS (STANDARD/INLINE)

MODELS LG035-G545 / G585 / LG035-G546-INLINE

FUNCTION

For spot treatments or when ceiling or site conditions (such as a gypsum ceiling) prevent the use of in-plenum speakers, direct fired speakers may be necessary.

The direct fired speakers have decorative speaker grills that blend seamlessly into your designs. The flush mounted speaker gently introduces the sound masking directly into the environment below. The inline speaker option also provides an additional volume control with an attenuator conveniently located next to the connectors. 0 to -12 dB adjustments can be made with a flathead screwdriver.

Speakers used in the i.Net system are configured with integrated RJ45 connections for plug and play and ease of installation. The speakers feature an aluminum housing, 5-inch diameter with wide dispersion, and weigh approximately four pounds each.

There are two speaker models available (6" & 4") to accommodate various plenum depths. Speakers distribute sound masking, paging and/or music.

Changes to speaker settings can be made either at the OP by channel or at a wall location via hand held remote or through the system's user interface on-site, off-site or around the world.

Note: Drop tile or ceiling thickness not to exceed 1.25"

* MASKING/PAGING UNITS ARE UL LISTED FOR USE IN AIR HANDLING SPACES

SPEAKER ENCLOSURE

+ Aluminum Housing
+ Grill Cover: Metal screen, white with perforated grill
+ Lightweight Mounting Chain
+ Two speaker models available – 6" & 4"

SPEAKER MODEL DIMENSIONS

LG035-G545	LG035-G585	LG035-G546-INLINE
H: 6"	H: 4"	H: 6'
D: 6"	D: 6"	D: 6"
W: 4lbs	W: 4lbs	W: 4lbs

LOUDSPEAKER

+ 5-inch - wide dispersion
+ Power Rating – 10 watts RMS
+ Frequency Response – 50 – 12,000 Hz
+ Impedance – 32 Ohms
+ Resonance – 80 Hz
+ Magnet Weight – 10 oz
+ Magnet Structure Weight – 26 oz
+ Cone – Formed Fiber
+ Cone Suspension – High Compliance Foam
+ Voice Coil – 1-inch diameter
+ Voice Coil Form – Anodized Aluminum

i.Net CEILING PLATE SPEAKERS (STANDARD/INLINE)

MODELS LG035-G545 / G585 / LG035-G546-INLINE

PAGING INPUT

+ Via OP & MPI

POWER REQUIREMENT

+ Powered by OP

WIRE REQUIREMENTS

+ All wire must be plenum rated and UL listed
+ Speakers use Cat 5e or equivalent, 4 twisted pair and RJ45 connectors
+ Straight cable – Pin 1 to Pin 1, Pin 2 to Pin 2, etc

OTHER SYSTEM REQUIREMENTS

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

i.Net®
SOLID STATE TRANSDUCER
(with bracket)

MODELS: SDSPKR3 / SDSPKR3-12 /SDSPKR3-24

FUNCTION

The SDSPKR3 Solid State Transducer Speaker enables sound masking, paging and music to be distributed uniformly throughout the space, without the visibility of a standard speaker.

A truly hidden speaker, the SDSPKR3 installs directly behind walls and ceilings. The unit turns an entire structure's surface into a high-quality sound source while remaining completely hidden from view. In fact, the SDSPKR3 can generate sound by utilizing only 5 to 20 watts. This speaker is thermally protected, so it can also be used in high-output applications.

SPECIFICATIONS

+ Frequency Response Max: 70-15,000 Hz Nominal w/o EQ – depends on substrate
+ Max Program Power: 50 Watts
+ Max Continuous Power: 30 Watts
+ Diameter - Housing Body: 2.30" / 58 mm
+ Diameter - Mounting Foot: 3.50" / 89 mm
+ Height - Housing Body: 2.05" / 51 mm
+ Weight: 1.2 lb / 0.54 kg per drive
+ Impedance: 8 Ohms

MODELS

+ SDSPKR: includes backet for 16" studs
+ SDSPKR-12: includes bracket for 12" studs
+ SDSPKR-24: includes bracket for 24" studs

i.Net®
SOLID STATE TRANSDUCER
(glass surfaces)

MODEL SDSPKR2

FUNCTION

The SDSPKR2 Solid State Transducer Speaker (masking only) enables sound masking to be distributed uniformly throughout the space, without the visibility of a standard speaker. The SDSPKR2 functions to prevent ease dropping on windows by lasers and parabolic microphones.

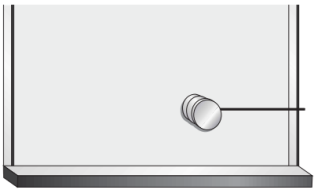
The SDSPKR2 installs directly on glass. The unit turns an entire structure's surface into a high-quality sound source. The speaker is thermally protected, so it can also be used in high-output applications.

SPECIFICATIONS

+ Frequency Response Max: 80-10,000 Hz (+/- 3 dB)
+ Max Preak Power: 50 Watts
+ Max Continuous Power: 30 Watts
+ Diameter - Housing Body: 2.30" / 58 mm
+ Height - Housing Body: 2.05" / 51 mm
+ Weight: 1.2 lb / 0.54 kg per drive
+ Impedence: 8 Ohms

INSTALLATION OF SDSPKR2 TO GLASS SURFACES

For installation on glass surfaces, such as windows, the SDSPKR2 comes with a VHB double-sided adhesive disc. It must be mounted on the inside of the window since the unit is not water-proof.



The SDSPKR2 should be mounted in an inconspicuous location of the window. Simply apply the VHB pad that comes with the drive to the base of the drive (the side opposite the label). Remove one side of the protective layers from the VHB disc and apply to the base of the SDSPKR2. Then remove the other protective layer and apply to glass surface with moderate pressure.

When mounting the SDSPKR2 on the window, keep it about 4 to 6 inches from the window frame. The SDSPKR2 will have maximum output with at least 20 square feet of window surface space

LENCORE

i.Net®
SOLID STATE TRANSDUCER
(wood surface)

MODELS: SDSPKR4

FUNCTION

The SDSPKR4 Solid State Transducer Speaker enables sound masking, paging and music to be distributed uniformly throughout the space, without the visibility of a standard speaker.

The SDSPKR4 installs directly on wood doors, under wood tables, or any wood surface. The unit turns an entire structure's surface into a high-quality sound source while remaining completely hidden from view. In fact, the SDSPKR4 can generate sound by utilizing only 5 to 20 watts. This speaker is thermally protected, so it can also be used in high-output applications.

SPECIFICATIONS

+ Frequency Response Max: 70-15,000 Hz Nominal w/o EQ – depends on substrate
+ Max Program Power: 50 Watts
+ Max Continuous Power: 30 Watts
+ Diameter - Housing Body: 2.30" / 58 mm
+ Diameter - Mounting Foot: 3.50" / 89 mm
+ Height - Housing Body: 2.05" / 51 mm
+ Weight: 1.2 lb / 0.54 kg per drive
+ Impedance: 8 Ohms