

PRODUCT SHEET & SPECIFICATIONS

GOLD

MODEL A1U



FUNCTION

Lencore's Gold provides up to 12,000 square feet of coverage. This single, 1 RU rack mounted solution replaces the bulky headend equipment previously associated with sound masking systems and incorporates eight (8) channels that can be digitally controlled for zone management. This stand-alone system incorporates amplifiers, equalizers, zone modification and total control all in one unit. The system maintains the easy to use full one-third octave band equalizer that can be adjusted to either individual zones or all zones and provides exceptional fine-tuning capabilities.

Gold provides:

- Multiple, random sound masking sources that produce a high quality, exceptionally comfortable sound to create speech privacy
- 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 a sound contour that can be adjusted and set to any point on the acoustical curve, from 20 Hz to 20 kHz, allowing fine-tuning the entire spectrum of sound possible
- A single device for operation and maintenance
- Ability to play background music

FEATURES & CAPABILITIES

- + Front Panel push buttons for user input and setup.
- + Integrated LCD screen for displaying information.
- + System Manager - pre-installed on the unit. Used to control the networked system with exceptional features plus the flexibility to monitor and control the system from virtually anywhere.
- + 8 channels on the OP function independently and provide 8 non-coherent random sound sources.
- + Quiet operation - fanless design.

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ENCLOSURE

- + Powder coated aluminum
- + Dimensions: 1RU height 17.25" L x 11.55" D x 1.75" H
- + Weight: 5lbs

ELECTRICAL SPECIFICATIONS

- + Input voltage – 100-240 VAC, 50-60Hz, IEC power cord included.
- + 40W max
- + 136 BTU max

INPUTS

- + Power input
- + Network connection RJ45
- + Audio via RCA Connectors
- + IR keypad
- + Masking mute

OUTPUTS

- + 8 speaker outputs with RJ45 connectors

SOUND GENERATOR

- + Octave bands – 25Hz 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
- + Volume control for individual channels or groups/zones
- + Contour control for individual channels or groups/zones
- + EQ control for individual OP's
- + Programming of groups and zones

SPECTRUM SHAPING

- + Units are able to be shaped with a full 1/3 band octave equalizer (30 bands)
- + Equalizers cover the full spectrum to manipulate the entire spectrum from 25Hz to 20kHz

WIRE REQUIREMENTS

- + Power – IEC Cable (included)
- + Audio - standard RCA
- + Speakers – Cat 5e cable or equivalent, 4 twisted pair, with standard RJ45 connectors
- + 16 AWG, 2-conductor for masking mute

PROGRAM MEMORY

- + Non-volatile for one year minimum, without power

REMOTE INFRA-RED VOLUME/ CONTOUR CONTROL (Optional)

- + Remote volume and contour control adjustments for sound masking.
- + Remote volume control for audio.
- + Wall mounted IR receiver.
- + Wall mounted IR and keypad receiver.

SYSTEM MANAGER SPECS

- + 255 masking zones capable
- + 255 audio zones capable
- + 30 band EQ for sound masking (25 - 20kHz)
- + 10 band EQ for audio (31 - 16 kHz)
- + Can EQ individual channels for sound masking
- + Can EQ individual OPs for audio

COMPLIANCE

- + UL 62368-1 (USA and Canada)

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DIRECT FIRED TANGENT SPEAKER (4-PACK)

MODEL A2U



FUNCTION

When a direct fired speaker or system is required due to site conditions or application need, the 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 Tangent speaker is equipped with torsion springs to ensure a smooth installation in ceiling tile or gypsum board.

*Model A2U comes pre-packaged with 4 Tangent speakers per box.

NOTE: Drop Tile or ceiling thickness not to exceed 3/4"

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 4 1/2" 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.

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

- + Aluminum Housing/White 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"

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

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GOLD

UNIVERSAL PLENUM SPEAKER (4-PACK)

MODEL A3U



Universal
(detached tripod chain)

FUNCTION

The Universal Plenum 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. Speakers used in the Gold system are configured with integrated RJ45 connections for plug and play and ease of installation. Speakers distribute sound masking, and/or music.

*Model A3U comes pre-packaged with 4 Universal Plenum speakers per box.

***Note: Speaker can be hung facing upwards or downwards with the accompanying tripod chain.**

SPEAKER ENCLOSURE

- + Aluminum Housing
- + Galvanized Perforated Grill
- + Detached Lightweight Mounting Chain

SPEAKER MODEL DIMENSIONS

- + Height - 6"
- + Diameter - 6"
- + Weight - 3lbs

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

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

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.

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DECORATIVE PENDANT SPEAKER (4-PACK)

MODELS A4U (WHITE) / A5U (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.

Note: The A4U/A5U ships with 12" of wire exposed with an additional 6 inches tucked in the Gem box. 18" total.

SPEAKER ENCLOSURE

- + Plastic Housing
- + Grill:
 - A4U: Metal screen, white with perforated grill
 - A5U: Metal screen, black with perforated grill
- + Cable Length: 2.5'

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

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UNIVERSAL CHICAGO PLENUM SPEAKER (4-PACK)

MODEL A6U



Universal
(detached tripod chain)

FUNCTION

The Universal Chicago Plenum 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. Speakers used in the Gold system are configured with integrated RJ45 connections for plug and play and ease of installation. Speakers distribute sound masking, and/or music.

This speaker enclosure has a junction box to house cables. Specify this unit for the city of Chicago or where this type of junction box enclosure is required by code.

*Model A6U comes pre-packaged with 4 Universal Chicago Plenum speakers per box.

***Note: Speaker can be hung facing upwards or downwards with the accompanying tripod chain.**

SPEAKER ENCLOSURE

- + Aluminum Housing
- + Integrated Junction Box
- + Galvanized Perforated Grill
- + Detached Lightweight Mounting Chain

SPEAKER MODEL DIMENSIONS

- + Height - 6"
- + Diameter - 6"
- + Weight - 3lbs

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

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

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GOLD

IR TOUCHPAD CONTROLLER

MODEL G41



FUNCTION

The IR Touch Pad Controller provides wall access and immediate adjustments for the 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 and music.

To use the Touch Pad use the left and right arrow keys in the center of the pad to select the function types (masking, 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 decreases in the volume adjustments. To mute and unmute the system, simply press the Mute/Unmute button located at the bottom of the wall plate. The IR/All function enables end users to mute or unmute the masking, 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

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IR HUB/ IR WALL CONTROLLER

MODEL G964 / G42



FUNCTION

The Gold A1U has an integrated IR Port that can be connected to the IR Hub (Model #G964) and IR Wall Controller (Model #G42) to provide up to four individual channels per A1U.

Using an IR Hub channel, one can make volume and contour control adjustments for masking 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" X 4 1/4"

POWER REQUIREMENT

- + 9-48 VDC Screw Terminals

WIRE REQUIREMENTS

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

AGENCY LISTINGS

- + UL60065
- + UL2043