

# SPEAKER

## PRODUCT SHEET & SPECIFICATIONS

### SPECTRA® CLASSIC SPEAKERS

#### TYPICAL APPLICATIONS FOR THIS SERIES

For use in traditional plenum space. Available height 6" and 4" models. All Lencore Sound Masking Systems are custom designed to meet local codes and to fit a variety of site conditions and applications in:

- + Open Plan
- + Closed Plan
- + Retrofit
- + New Construction

Units shown are 6" diameter and are available in 6" and 4" height.



Lencore's Spectra® Classic Sound Masking unit consists of an individual self-contained noise generator, audio amplifier and loudspeaker in a damped metal enclosure, powered by 16/18 volts AC. Both LM6/ LM4 units are capable of driving two secondary models (LS6/ LS4) while the LM6-CVC/ LM6-RCVC units can power one secondary model. LS6 and LS4 plenum secondary models duplicate the output of models LM6 and LM4.

Secondary units are connected to a main unit that is solid state and contains a CMOS/ MSI digital random sequence noise generator and filter for active spectrum shaping. All units are equipped with a 10-step volume control plus an additional continuous volume control. The remote central volume control unit, LM6-RCVC, allows adjustments to the volume of masking sound remotely. This model uses a remote rotating switch accompanied by a wall-mountable plate and is adjust by rotating the dial from 0 to 10. \*The RCVC has the option of an on/off switch (LOF). Performance characteristics of the LM6-RCVC remain identical to that of a standard main unit model LM6.

The masking system can be uniquely adjusted to suit a variety of standard and non-standard ceiling conditions by making adjustments to the amplitude and spectra shapes. This adjustment can be made in increments of  $\pm 1/2$  dB. In addition, the system

has the adjustment capability to provide the most unobtrusive sound while obtaining the maximum speech privacy that meets ASTM E-1130 standards for speech privacy and sound uniformity. The spectrum shape adjustment ranges from 1dB at 125 Hz to 20dB at 8,000 Hz (typical).

Lencore's Spectra® System can incorporate a high-quality paging and music system to handle all call paging, zoned paging, voice over IP, paging through the phone system, security and life safety paging.

Lencore's Spectra® can work in conjunction with Lencore's SPEC™ software program which serves as a diagnostic and planning tool for sound masking and paging systems to qualify and analyze the

acoustical performance levels of your space, enabling a fact-based approach to predicting spatial and temporal uniformity of sound for sound masking.

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

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## SPECTRA® CLASSIC SPEAKERS

### – ENCLOSURE:

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

### – SPEAKER MODEL DIMENSIONS

#### LM6/LM4

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

#### LS6/LS4

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

### – LOUDSPEAKER:

- + 5-inch - wide dispersion
- + Power Rating: 10 watts
- + Frequency Response: 60-13,000 Hz
- + Impedance: 16 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

### – GENERAL SPECIFICATIONS:

- + Paging Input: 25v RMS at 12.5mW (50kOhms)
- + Power Requirement: 16v/18v AC, 60 Hz at 50mA (typical no page)
- + With Paging: Up to 200mA
- + Output Adjustment: 15dB step-volume control
- + Additional continuous control (56-86 dBA total), plus a central volume control that can control up to 50 masters for an additional attenuation of 15dB
- + System can be tuned to +/- ½ dB

### – RANGE OF SOUND LEVEL:

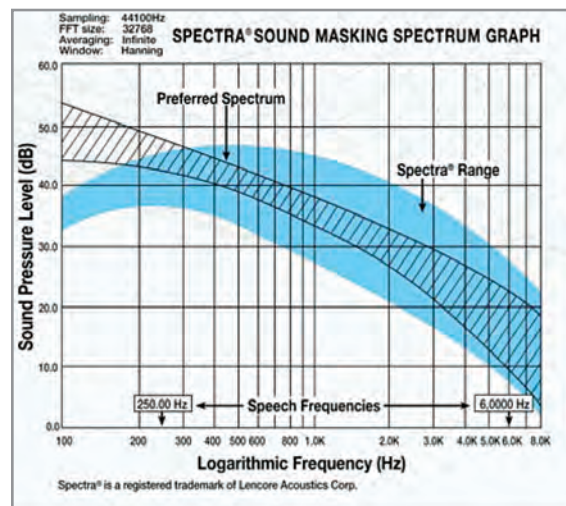
- + LM6/ LM4: 56-86 dBA (measured at 1.5' from speaker)

- + LM6-RCVC/ LM6-CVC: 41-86 dBA (measured at 1.5' from speaker)
- + LS6/ LS4: 56-86 dBA (measured at 1.5' from speaker)

### – WIRE REQUIREMENT:

18 gauge, plenum rated non-shielded 2, 4 or 6 conductor depending on application

### – SPECTRUM GRAPH



The Spectrum Graph above (measured in A-scale) depicts the range of spectra attained with standard fiberglass or mineral ceiling tile. The lower spectra provides for the most unobtrusive sound, while the upper spectra provides for maximum speech privacy.

In-plenum and direct fired all available with paging/audio.  
Masking/Paging Units are UL Listed for use in air handling spaces.

# SPEAKER

## SPECTRA® CLASSIC SPEAKERS

### HOW TO SPECIFY A MODEL # FOR SPECTRA CLASSIC:

	I	II	III	IV	V	VI
<b>All Models</b>	<b>Lid Type</b>	<b>Specify Unit Type</b>	<b>Specify Unit Height</b>	<b>Specify Hanging Style</b> (Not available on desktop units)	<b>Specify Wire Box</b> If Local Code Dictates	<b>Specify Central or Remote Volume Control</b> (Option only available with Main Unit)
<b>L</b>	Leave blank for standard lid	M (for Main)	6"	Leave blank for standard hanging method	Leave blank for power wires with no box	Leave blank for standard controls
	G035 for plastic ceiling plate unit	S (for Secondary)	4"	<b>TRI</b> for tripod hanging or 3-notch chain configuration	<b>HB</b> - Handy Box Unit (ex. St. Louis, Miami, etc.)	<b>CVC</b> for Central Volume Control
	E035 for HVAC - metal ceiling plate unit	DT (for Desktop unit)		<b>INV</b> for inverted 3-notch chain	<b>C</b> - Air Tight Electrical Box Unit (ex. Chicago, etc.)	<b>RCVC</b> for Remote Central Volume Control

\*units can be custom painted on request\*

\*LOF for on/off switch\*

#### Example #1

#### LG035M6-HB - Ceiling Plate, Main 6", with Handy Box Unit

All Models	Lid Type	Specify Unit Type	Specify Unit Height	Specify Hanging Style	Specify Power Wires Covered	Specify Central or Remote Volume Control
L	G035	M	6	-	HB	

#### Example #2

#### LM6-TRICVC - Main 6" Tripod CVC Unit

All Models	Lid Type	Specify Unit Type	Specify Unit Height	Specify Hanging Style	Specify Power Wires Covered	Specify Central or Remote Volume Control
L		M	6	TRI		CVC



**HB - Handy Box**  
(St. Louis, Miami, etc.)



**C - Air Tight Electrical Box**  
(Chicago, etc.)



**TRI - Tripod**



**INV - Inverted**



**LG035 - Ceiling Plate**



**RCVC**

V2.0

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