Low-Profile Adapter

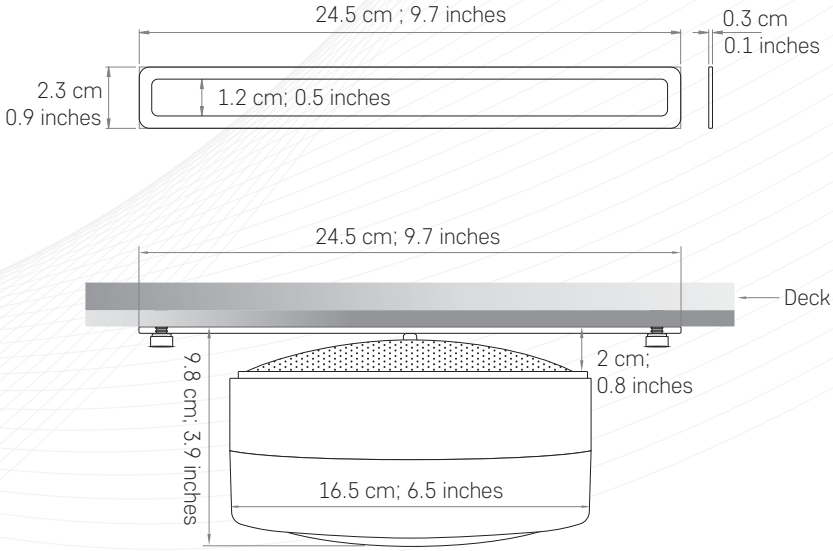
Install the Loudspeaker (LA) in low-height plenums. First, use the supplied washer and bolt to attach this adapter to the threaded mount in the center of the loudspeaker grille. Then, use two fasteners and washers (not included) to attach the adapter to the ceiling deck (see diagram).

While it is typically impossible to attain the correct masking spectrum and level when a loudspeaker is installed within such a confined space, LogiSon TARGET tuning delivers the specified results quickly and precisely.

A top view showing the adapter attached to the threaded mount in the loudspeaker grille.

SPECIFICATIONS

Available in black.



LPA

Physical Specifications	
Dimensions (W x H)	See above diagrams
Color	Black
Material	Powder-coated aluminum
Weight	27 g; 1 ounce, with hardware
Mounting	
Attachment to Loudspeaker	Rectangular washer and 8-32 bolt (included)
Suspension to Deck	2 x washer and fastener (not included)
Warranty	5 years; see LogiSon® Product Warranty for details

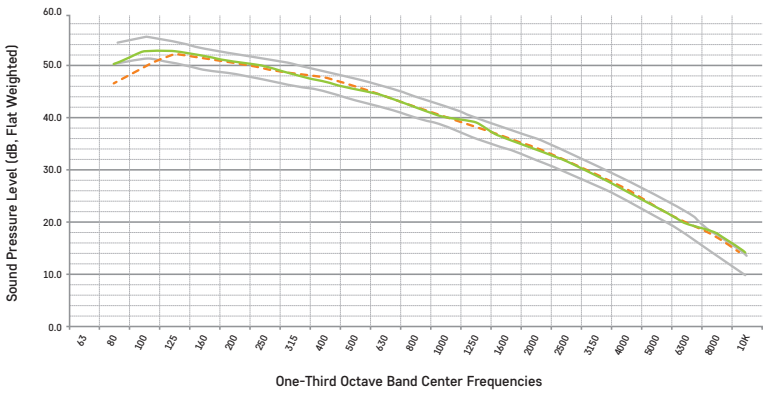
Technical specifications are subject to change without notice.

LA-1 + LPA Frequency Response Performance Testing

NRC Optimum Masking Spectrum, LogiSon TARGET Equalization

LA-1 + LPA masking spectrum frequency response on center. Output (green) is well within typical specified tolerances of +/-2.0 dB in each one-third octave band (grey) from 100 to 10,000 Hz for an overall level of 52 dBA. Maximum and minimum band tolerances shown (grey). Output extends below the National Research Council (NRC) Optimum Masking Spectrum range, to 80Hz.

When compared to the previous low-profile loudspeaker (LA-1LP) model's output under the same conditions (red), LA-1 + LPA exhibits approximately 3 dB greater output in the 80 and 100 Hz one-third octave frequency bands, indicating improved low-frequency response.

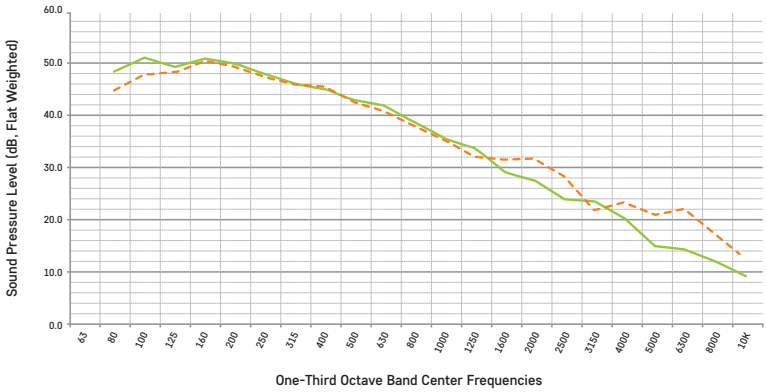


Off-Center Frequency Response, 1.8 m (6 feet) from Center

LA-1 + LPA off-center frequency response, tested at 1.8 m (6 feet) from center.

When compared to LA-1LP output (red) under the same conditions, LA-1 + LPA exhibits improved output (green) in the 80 and 100 Hz one-third octave frequency bands, equivalent output from 125 to 1,250 Hz, and smoother output from 1,600 to 10,000 Hz.

Overall level output of the and LA-1LP and LA-1 + LPA is nearly identical at 49.5 dBA and 49.1 dBA respectively.



Testing Details

Random production samples were sequentially tested within the same test location. The LA-1LP was tested with loudspeakers facing the concrete deck. The LA-1 + LPA was tested also facing the deck, with a 0.28-inch gap between the loudspeaker housing (grille removed) and the deck. The test environment was a large open space (over 5,000 ft²), with concrete walls and floor, measuring 27 feet from floor to deck. Measurement distance was at 7 feet directly behind the loudspeaker (center point) and in one-foot horizontal increments up to 12 feet from center (repeated in two directions). Measurements were time-averaged over a period of 15 seconds. Overall levels were A-weighted. One-third octave band levels were flat-weighted. Equipment used included an Ivie Class 1 IE45 Analyzer, BSWA Class 1 CAIII Pistonic Calibrator, LogiSon Primary Network Hub (PNH-3), and LogiSon TARGET software. These tests demonstrate that the LA-1 + LPA implemented using TARGET tuning conforms to typical masking specifications. Absolute results are specific to the test environment, but permit performance comparison relative to LA-1LP.