



### Loudspeaker Installation

The LogiSon Acoustic Network loudspeakers are typically installed upward-facing, above the ceiling tiles. The indirect transmission of the masking sound results in broad, uniform coverage (see diagram to the right).

The smallest zones (1 to 3 loudspeakers), as well as the finest volume and equalization controls (0.5 dBA steps; 1/3-octave), allow the system to be easily adjusted to account for local conditions above and below the ceiling. In fact, we set the bar for volume consistency in our industry at  $\pm 0.5$  dBA, ensuring the masking sound is consistently effective and unobtrusive.

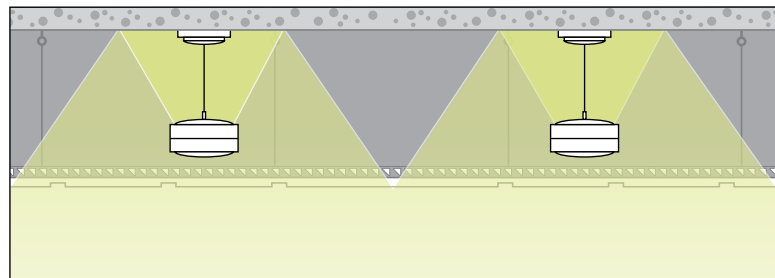
Though sound masking loudspeakers can also be installed in a downward-facing fashion (sometimes referred to as 'direct field'), we recommend this only in very limited circumstances. Downward-facing loudspeakers are prone to significant volume variations due to a 'spotlight' effect. Volume variations between loudspeakers can call occupants' attention to the masking sound and also reveal its source, which is contrary to the user's goals.

Furthermore, if the downward-facing loudspeakers are installed in an area with a suspended ceiling, multiple cut-throughs are required. In-plenum loudspeakers are installed invisibly above the ceiling tiles and will not damage them.



The most common and best-performing loudspeaker is in-ceiling and upward-facing. Wall-mounted, downward-facing, under-floor and desktop models are useful in situations where it is impossible to access the ceiling or suspend anything in it. See the appropriate sections of this catalogue for more information.

A loudspeaker is suspended from a hub and used to broadcast masking, paging and/or music. The LA-I model is very flexible and used throughout most LogiSon Acoustic Network installations. The custom clip allows the length of chain to be adjusted without tools. Slack cable retracts into the enclosure, ensuring tidy installation. The full-range driver provides output exceeding the typical masking spectrum of 100 to 5,000 Hz, including the lower frequencies needed for comfort.



### SPECIFICATIONS

#### Audio Performance

Masking Output	87 dBA maximum
Paging Output	87 dBA maximum

#### Driver Specifications

Frequency Range	90 to 10,500 Hz
Dimension	10.1 cm; 4 inches
Power Handling	25 W (RMS)
Sensitivity	88.6 dBA @ 1W / 1m
Magnet Structure	510 g; 18 oz
Impedance	16 ohms

#### Connections

Loudspeaker Input	2-pin
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#### Cabling

Loudspeaker to Hub	Integrated cable assembly
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#### Physical Specifications

Dimensions (W x H)	16.5 x 9.0 cm; 6.5 x 3.5 inches
Enclosure	Plenum-rated resin
Color	Off-white or charcoal grey; custom colors available
Weight	0.95 kg; 1.9 lbs

#### Mounting

Method	Suspend from hub or from deck
Chain Length	61 cm; 24 inches
Chain Adjustment	Tool-free clip
Loudspeaker Orientation	Upwards; tool-free reversibility to downwards if necessary
Cable Management	Slack retracts into enclosure

#### Warranty

5 years; see LogiSon® Product Warranty for details

#### Certifications

Meets UL, FCC and CE standards and is approved for use in air-handling plenums; RoHS compliant