

SOUND.
THAT WORKS.™





FOR PRODUCTIVE EMPLOYEES

QUICK ROI
 INCREASE PRODUCTIVITY
CONTROL NOISE
 LOWER PROJECT COSTS
 FACILITY FLEXIBILITY
 ENHANCE WORKPLACE CULTURE
 SUPPORT FOCUS
 IMPROVE SPEECH PRIVACY
 BOOST COMFORT & WELLNESS



OUR TARGET.

PROVIDING SOUND. THAT WORKS.

For the last forty years, our company has exclusively focused on developing sound masking technology. During that time, we've built an extensive client list ranging from small business to Fortune 100 and a global distribution network dedicated to providing exceptional customer service.

In 2000, we embarked on a from-the-ground-up re-envisioning of sound masking, resulting in the launch of the world's first networked system: the LogiSon Acoustic Network. It's now a recognized industry leader with over twenty awards for innovation, performance and ease of use.

This catalogue tells you about the LogiSon components. But in the end, sound masking isn't just a product. It's a *service* provided by professional technicians who know the desired effect isn't achieved the moment they power on the equipment, but rather through a post-installation process called 'tuning' that ensures the sound consistently meets an independently-proven masking curve.

With its small zones, decentralized sound generation, full-range loudspeakers, fine volume and third-octave frequency controls, the LogiSon Acoustic Network is uniquely designed to give our technicians all of the right building blocks needed for that process. We also equip them with TARGET, an application that leverages its networked architecture in order to tune with previously unachievable accuracy.

Designed right. Tuned right. It's a powerful combination. And the result is more consistent, comfortable and *effective* sound masking.



Although the LogiSon components are typically installed above the ceiling, as you'll see by the interiors featured, they easily blend in with lighting and other exposed elements in open applications.



CONTENTS

Your LogiSon Representative selects the components and designs the system's layout. Installation can be handled by their in-house staff, a third-party, or your own electrical or audio contractor, after which your rep commissions the system, including TARGET tuning.

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Technical specifications are subject to change without notice.





The LogiSon Acoustic Network offers both hardware- and software-based control. Following renovations, moving furniture or personnel, changes—even to zoning—can be made in minutes. Ease of future reconfiguration reduces lifecycle costs, while ensuring peak performance.

CONTROL

Network Control Panel

Conveniently manage the LogiSon Acoustic Network's zoning and settings from one location. Network multiple panels together to provide multi-floor, whole-building or campus control. For retrofits, activate the gradual ramp-up feature, which progressively increases the masking volume over a period of up to 60 days. From that point, use the sophisticated timer to schedule the masking volume to match expected activity levels throughout the day, week or month, as well as on holidays. Changes are made at a gradual, user-defined rate so as not to draw occupants' attention. Non-volatile memory ensures settings are preserved in the event of a building power failure. Panels can also be connected to a third-party control system. For details, see the user guide.

SPECIFICATIONS



NCP

Control Performance	Network initialization, masking, paging, timer, keypad settings, zoning, paging/music inputs, system monitoring and diagnostics
Masking Performance	
Volume	35 to 85 dBA @ 1 m in 0.5 dBA steps + mute
Equalization (w/ PC)	1/3-octave, 23 bands, 63 to 10,000 Hz
Paging Performance	
Audio Inputs	3, any combination of auxiliary, telephone and microphone
Zone Configuration	Zone 1, 2, 3 or none; unlimited zones with Page Director
Volume	35 to 85 dBA @ 1 m in 0.5 dBA steps + mute
Equalization (w/ PC)	1/1-octave, 8 bands
Timer Performance	
Zones	Up to 9 zones per panel; no restrictions to zone size
Scheduling	Unique schedule for each day of the week
Volume Changes	Up to 9 changes per day in 0.5 dBA steps
Rate of Change	0 to 9 minutes per volume increment
Exception Schedules	Up to 30 dates, 3 user-defined schedules
Ramp Up Feature	Up to 60 days, user-defined schedule in 0.5 or 1 dBA steps
Components per Panel	Max. 125 components and 375 loudspeakers
Network Type	
Upstream from Panel	Open; protected with 128-bit AES encryption
Downstream from Panel	Closed; standard RS-485
Connections	
Power Input	3-pin, screw terminal
Network Output	6-pin
Ethernet Connection	10/100 Base-T RJ-45
Audio Inputs	3-pin, screw terminal x 3
Priority Page	2-pin, screw terminal
Power	
Input & Output	30 VDC
Consumption	Maximum 12 W
Ground	Earth ground
Relay Outputs	2-pin, screw terminal x 2
Display Battery	½ AA; 3.6 V; 10-year life expectancy
Physical Specifications	
Dimensions (W x H x D)	28 x 23 x 7.6 cm; 11 x 9 x 3 inches
Enclosure	Steel with charcoal grey powdercoat finish
Weight	2 kg; 5 lbs
Keypad	20-key membrane panel with backlit LCD display
Mounting	4 keyhole mounting positions
Security	
Physical	Key-lock enclosure
Electronic	Password required to access settings, 3 levels
Warranty	5 years; see LogiSon® Product Warranty for details
Certifications	Meets UL, CE, ACMA (C-Tick) and FCC standards; RoHS compliant

Acoustic Network Manager

Control the LogiSon Acoustic Network from a PC. Prior to use, configure the software's interface to show or hide functionality, depending on access levels. For details, see the help file or user guide.



Launch the software with this desktop icon.



SPECIFICATIONS

ANM

Operating Systems	Windows 10 Windows 8/8 .1 Windows 7 SP1 or later Windows Vista SP2 or later
Architectures	X86 X64
Hardware Requirements	Computer with 1 GHz or faster processor with 1 GB RAM or more Graphics parts supporting WDDM drivers (Windows Display Driver Model) recommended Minimum disk space (Microsoft components/Installation): X86 - 4.5 GB; X64 - 4.5 GB Disk space (LogiSon components): 22 MB
Prerequisites	Microsoft .NET Framework 4.5.2 or later (incl. with Windows 10 or later)

Programmable Keypad + Remote

Offer occupants on-demand control of the sound masking and paging settings in private offices and meeting rooms, or anywhere else there's a need for individual control. Prior to use, define what area each keypad controls, the functions it offers and the degree to which occupants can change settings.

User Instructions

To activate the keypad, press any key. If the desired function isn't highlighted, press the Select key to choose either Masking or Paging. The screen displays the current setting for that function. To increase or decrease the volume, press the + or – key. To mute the function, press the Mute key. The screen displays two dashes. To un-mute, press the Mute key again. To change the paging channel, press the Select key until the screen displays a C and then press the + or – key.

SPECIFICATIONS



PK + PKR

Control Performance	Masking and paging volume control, masking and paging mute, paging channel selection, remote control receiver enable/disable
Masking Performance	
Volume Adjustment Range	99 step range in 0.5 dBA steps + mute
Volume Restriction	Administrator defines minimum and maximum
Function Restriction	Administrator enables or disables functions
Paging Performance	
Volume Adjustment Range	99 step range in 0.5 dBA steps + mute
Volume Restriction	Administrator defines minimum and maximum
Function Restriction	Administrator enables or disables functions
Paging Channel Selection	Zone 1, 2, 3 or none
Connections	
Network In/Out	6-pin
Power	
Input	30 VDC
Consumption	Maximum 6 W
Zoning	
Method	Electronically zoned using Network Control Panel or Acoustic Network Manager Software
Zone Size	No limit
Physical Specifications	
Dimensions (W x H x D)	4 x 10.4 x 4.6 cm; 1.58 x 4.1 x 1.825 inches
Color	White
Weight	120 g; 4.2 oz
Display	2-digit LED
Keypad	4-key membrane panel
Remote Control	
Remote Receiver	Infrared remote control receiver for use with PKR-1
Function Restriction	Administrator enables or disables function
Mounting	Single-gang wall box with white, Decora-style faceplate
Security	
Function Restrictions	See restrictions noted above
Warranty	5 years: see LogiSon® Product Warranty for details
Certifications	Meets UL, CE, ACMA (C-Tick) and FCC standards; RoHS compliant

Room Manager

Offer on-demand control of the sound masking and paging volume in individual rooms, from a PC. Prior to use, define the rooms, as well as the type and degree of control within each one. Users can be given control over their own room (e.g. private office) or multiple rooms (e.g. patient rooms from a nursing station). For details, see the help file or user guide.



Launch the software with this desktop icon.

SPECIFICATIONS



RM

Operating Systems	Windows 10 Windows 8/8 .1 Windows 7 SP1 or later Windows Vista SP2 or later
Architectures	X86 X64
Hardware Requirements	Computer with 1 GHz or faster processor with 1 GB RAM or more Graphics parts supporting WDDM drivers (Windows Display Driver Model) recommended Minimum disk space (Microsoft components/Installation): X86 - 4.5 GB; X64 - 4.5 GB Disk space (LogiSon components): 6 MB
Prerequisites	Microsoft .NET Framework 4.5.2 or later (incl. with Windows 10 or later)





Smart engineering makes the LogiSon Acoustic Network the right solution for any project. Its networked architecture is easily scaled to accommodate facilities of all sizes, from a single office to a multi-building campus. It can be expanded or relocated, as needed.

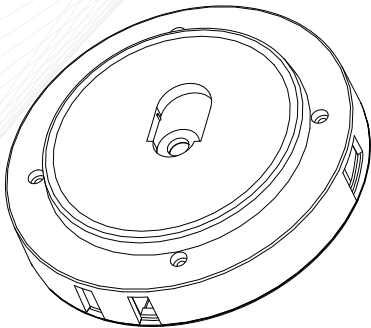
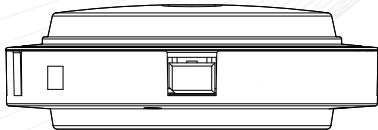
HUBS

Primary Hubs

Connect the Primary Network Hubs (PNH) to the Network Control Panel, allowing central communication with individual loudspeakers. Each hub features Digital Signal Processing (DSP) truly random masking sound generation, a $\frac{1}{3}$ -octave masking equalizer, a $\frac{1}{1}$ -octave paging equalizer, an amplifier, independent volume controls for masking and paging, and multiplexed paging selection, eliminating the need for centrally-located audio equipment. It also monitors power and loudspeaker function.

Power & Accessory Hub

Connect power to the LogiSon Acoustic Network with a Primary Power Hub (PNH-P) or attach a Programmable Keypad using the Primary Accessory Hub (PNH-A).



SPECIFICATIONS



Available in white and charcoal grey.

PNH, PNH-P, PNH-A

Masking Performance

Sound Generation	Digital Signal Processor (DSP), truly random (nondeterministic)
Volume Equalization (w/ PC)	35 to 85 dBA @ 1 m in 0.5 dBA steps + mute 1/3-octave, 23 bands, 63 to 10,000 Hz

Paging Performance

Zone Configuration	Zone 1, 2, 3 or none
Volume Equalization (w/ PC)	35 to 85 dBA @ 1 m in 0.5 dBA steps + mute 1/1-octave, 8 bands

Timer Performance

Zoning and events set using Network Control Panel or Acoustic Network Manager Software

Components per Hub

Number of SNH-1	0 to 2
Number of Loudspeakers	1 to 3

Connections

Network Input	6-pin
Network Output	6-pin
SNH Output	2-pin x 2
Loudspeaker Output	2-pin
Power Input *	2-pin
Accessory Input **	6-pin

Cabling

PNH to PNH	CA6 series cable
PNH to SNH	CA2 series cable

Power

Input	30 VDC
Consumption	3.6 W at typical settings; 6.4 W at maximum settings

Integrated Amplifier

5 W

Physical Specifications

Dimensions (W x H)	13.0 x 4.5 cm; 5.1 x 1.75 inches
Enclosure	Plenum-rated resin
Color	White or charcoal grey
Weight	0.2 kg; 0.4 lb

Mounting

Flexible mounting options; see LogiSon® Installation Manual

Security

Physical	No physical controls
Electronic	Monitoring of communication, power and loudspeakers

Warranty

5 years; see LogiSon® Product Warranty for details

Certifications

Meets UL, CE, ACMA (C-Tick) and FCC standards and is approved for use in air-handling plenums; RoHS compliant

* PNH-P only ** PNH-A only

Secondary Hub

If desired, increase masking zone size from one loudspeaker to a maximum of three (i.e. from 225 to 675 ft²) by connecting up to two Secondary Network Hubs (SNH) to a Primary Hub within open plans. Each Secondary Hub replicates the settings of the Primary Hub to which it's connected. Keeping zones no larger than three loudspeakers allows the technician to precisely tune the masking sound, ensuring effective and comfortable coverage throughout treated areas.



For open ceilings, use a slim braided steel cable to suspend a loudspeaker from each hub, rather than the standard silver chain.



Available in white and charcoal grey.

SPECIFICATIONS

SNH

Output Performance	Masking, paging and timer inherited from Primary Hub
Components per Hub	1 loudspeaker
Connections	
Signal Input/Output	2-pin x 2
Loudspeaker Output	2-pin
Cabling	
PNH to SNH	CA2 series cable
SNH to SNH	CA2 series cable
Power	0 W
Physical Specifications	
Dimensions (W x H)	13.0 x 4.5 cm; 5.1 x 1.75 inches
Enclosure	Plenum-rated resin
Color	White or charcoal grey
Weight	0.2 kg; 0.4 lb
Mounting	Flexible mounting options; see LogiSon® Installation Manual
Security	No physical controls
Warranty	5 years; see LogiSon® Product Warranty for details
Certifications	Meets UL, CE, ACMA (C-Tick) and FCC standards and is approved for use in air-handling plenums; RoHS compliant



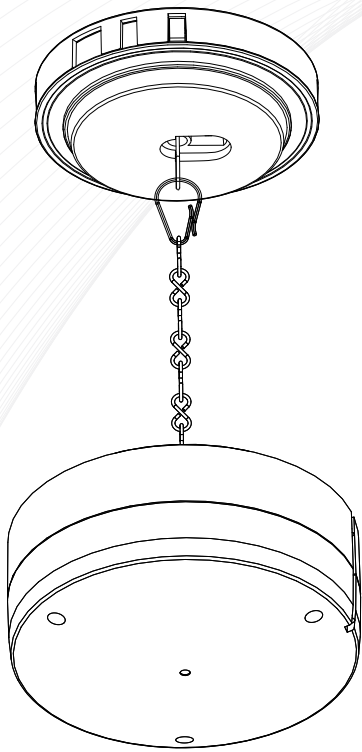


A range of loudspeakers and accessories allow the LogiSon Acoustic Network to be customized for the unique conditions presented by each facility. Regardless of which models are used, the system's backbone is always the same, high-performance LogiSon technology.

LOUDSPEAKERS

Loudspeaker

Connect a loudspeaker to each hub in order to distribute masking, paging and music. This model is very flexible and used throughout most LogiSon installations. The custom clip allows the length of chain to be adjusted without tools. Slack cable retracts into the enclosure, to maintain a tidy appearance. The full-range driver provides output exceeding the typical masking spectrum of 100 to 5,000 Hz, including the lower frequencies needed for comfort.



Install loudspeakers upward-facing, either above the ceiling treatment or within an open ceiling. The indirect transmission of the masking sound results in broad, uniform coverage. Downward-facing, wall-mounted and under-floor models are appropriate when installation conditions necessitate their use.



Available in white and charcoal grey.

SPECIFICATIONS

LA

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 @ 1 W/1 m
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	White or charcoal grey
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

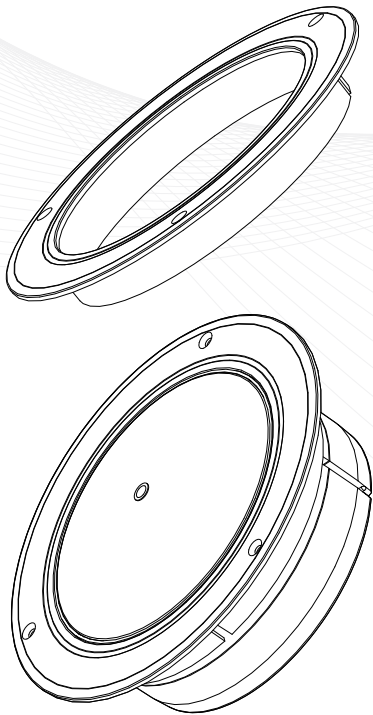
5 years; see LogiSon® Product Warranty for details

Certifications

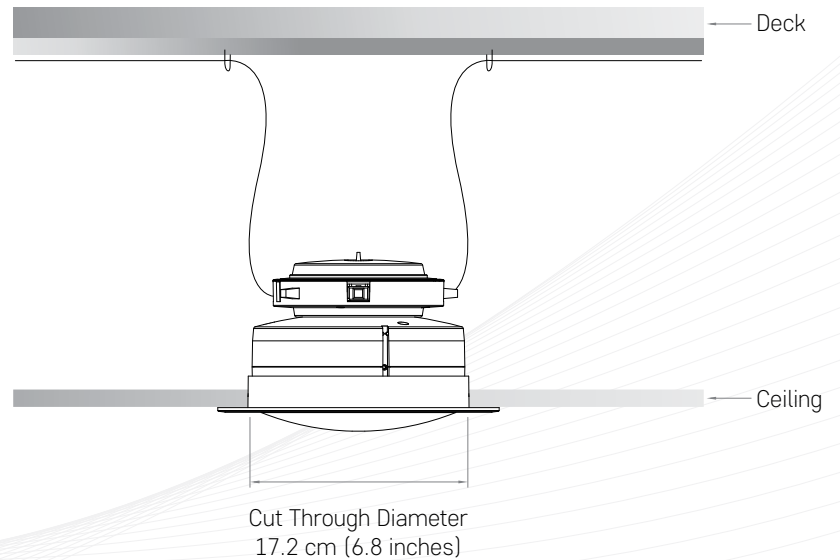
Meets UL, CE and FCC standards and is approved for use in air-handling plenums; RoHS compliant

Ceiling Mount Adapter

Install the Loudspeaker (LA) in gypsum or another hard ceiling material. Simply attach the hub to the loudspeaker and lower it into this adapter, mounted to the ceiling. A steel back plate offers support. Alternatively, use a Transducer; for more details, see the applicable section of this catalogue.



Available in white.



CMA

Physical Specifications

Faceplate Diameter	22 cm; 8.7 inches
Depth	2.8 cm; 1.1 inches
Material	Resin
Color	White
Weight	0.1 kg; 0.2 lb

Mounting

Attachment to Loudspeaker	Lay-in (with option for screw attachment)
Cut-Through Diameter	17.2 cm; 6.8 inches
Suspension to Ceiling	3-point suspension
Bolt Size for Suspension	8-32 x 2.5 inches
Backup Suspension	Additional suspension option from d-ring on hub

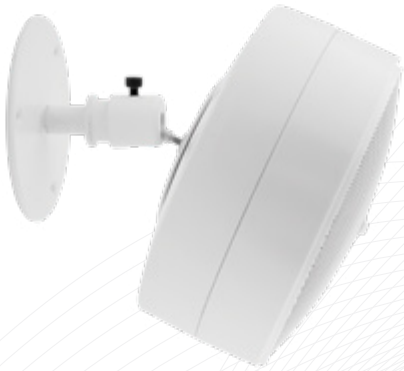
Warranty

5 years; see LogiSon® Product Warranty for details

SPECIFICATIONS

Wall Mount Adapter

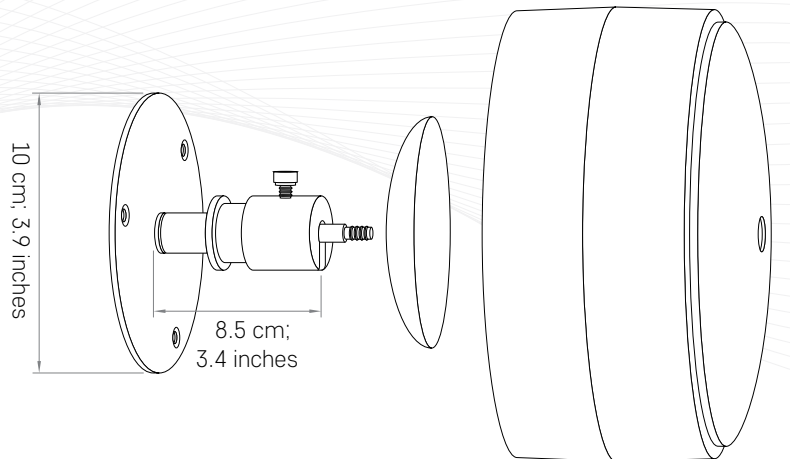
Mount the Loudspeaker (LA) to a structure, such as a wall. Simply unscrew the insert from the top of the loudspeaker and replace it with the clip removed from the bottom. Place the adapter's support plate on the back of the loudspeaker. Insert the threaded end of the swivel bracket into the support plate and loudspeaker, and turn to tighten. Install in the desired location and adjust the angle, as needed.



A side view showing the swivel bracket that allows the loudspeaker to be positioned in the desired direction.



Available in white.



WMA

Mounting

Number of Screws	3
Maximum Diameter	0.164 inches (#8) with flat head

Physical Specifications

Dimensions	See above diagram
Color	White
Material	Powder-coated aluminum & stainless steel
Weight	0.22 kg; 0.49 lbs

SPECIFICATIONS

Chicago Loudspeaker

Use in regions where building code requires conduit despite the fact that the Loudspeaker (LA) meets *UL 2043 Fire Test for Heat and Visible Smoke Release for Discrete Products and Their Accessories Installed in Air-Handling Spaces*.

The loudspeaker and the junction box housing the hub are designed to meet Chicago's stringent requirements. The enclosure and junction box are made of steel. Cabling is contained within Flexible Metal Tubing listed for use in plenums and other air-handling spaces. Where it enters the enclosure, this specialized conduit terminates in a one-piece zinc connector fitted with a rubberized polymer gasket, forming the smoke-tight seal required by the NEC. The junction box is also sealed. A flame-retardant fabric located below the speaker grille prevents dust accumulation.



For mounting in hard ceilings, fit the Chicago Loudspeaker with a white metal plate (LA-CHCP).

SPECIFICATIONS



LA-CH

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 @ 1 W/1 m
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 in FMT
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Physical Specifications

Dimensions (W x H)	15.2 x 15.8 cm; 6 x 6.2 inches
Enclosure	Electroplated steel housing, 26 gauge
Weight	1.52 kg; 3.36 lbs including FMT and chain

Mounting

Method	Suspend from hub
Chain Length	45.7 cm; 18 inches
Loudspeaker Orientation	Upwards facing

Junction Box for Hub

Dimensions (W x H)	20.3 x 6.6 cm; 8 x 2.6 inches
Material	Electroplated steel housing, 26 gauge
Gasket	Neoprene/EPDM/SBR
Knockouts	5 knockouts; 0.086 inches for 3/4-inch conduit; 1.125 inches for 1-inch conduit
Weight	756 g; 1.6 lbs, not including hub

Warranty

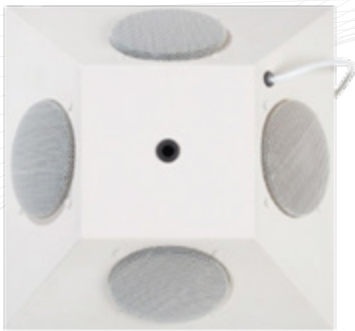
5 years; see LogiSon® Product Warranty for details

Certifications

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

Low-Profile Loudspeaker

Use in low plenums or beneath raised flooring. The durable, sealed steel enclosure can be bolted directly to the ceiling deck. Four 3-inch, full-range drivers are mounted at 90-degree angles for uniform 360° masking dispersion. The drivers are directed 53 degrees from vertical in order to avoid the creation of standing waves and maintain more localized sound distribution compared to horizontally-directed drivers.



An overhead view of the LA-LP showing its four drivers, plenum-rated cable connection and central mounting hole.

SPECIFICATIONS



LA-LP

Audio Performance

Masking Output	87 dBA maximum
Paging Output	87 dBA maximum

Driver Specifications

Frequency Range	100 to 8,000 Hz \pm 6 dB
Dimension	7.6 cm; 3 inches
Power Handling	10 W (RMS)
Sensitivity	84.2 dBA @ 1 W/1 m
Magnet Structure	58 g; 2.05 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)	21.6 x 8.1 cm; 8.5 x 3.2 inches
Enclosure	Metal
Color	White
Weight	1.72 kg; 3.81 lbs

Mounting

Bolted directly to the ceiling or floor deck

Warranty

5 years; see LogiSon® Product Warranty for details

Certifications

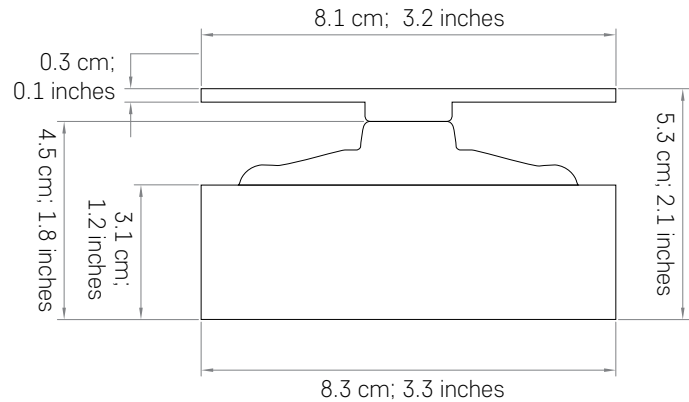
Meets UL, CE and FCC standards and is approved for use in air-handling plenums; RoHS compliant

Transducer

Invisibly deliver masking, paging and music via a solid surface such as gypsum, eliminating the need to cut in loudspeakers.

Also use this model to transfer masking sound to most types of walls, windows, doors, and other solid surfaces, in order to impede audio surveillance and eavesdropping.

When combined with proprietary TARGET tuning, this purpose-built transducer consistently delivers the correct masking spectrum and levels, overcoming the challenges typically encountered when attempting to manually adapt output to counter the influence of the material to which the transducer is attached.



T

Driver Specifications

Frequency Range	100 to 10,000 Hz (+/-2 dB)*
Sensitivity	68.3 dBA**
Power Handling	15 W (RMS)
Impedance (nominal)	16 ohms
DC Resistance	12 ohms
Magnet	Barium ferrite (72 x 32 x 15 mm)
Voice Coil	25 mm, 2 layer, round Cu 0.11 mm, aluminum former
Load Test	IEC268-5-C (15 W)
Endurance Test	Dry Heat: 70 °C ± 2 °C; 20 ~ 50% R.H. for 16 Hrs. Damp Heat: 40 °C ± 2 °C; 90 ~ 95% R.H. for 16 Hrs. Cold: -10 °C ± 2 °C; for 2 Hrs.

Connections

Input	Terminal plugs to 2-pin Molex connector
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Cabling

Transducer to Hub	CA2 series cable
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Physical Specifications

Dimensions (W x H)	8.3 x 5.3 cm; 3.25 x 2.12 inches
Housing	Plenum-rated resin
Color	Black
Weight	0.57 kg; 1.3 lbs

Mounting	Double-sided tape (3M 300LSE), screw, bracket
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Warranty	5 years; see LogiSon® Product Warranty for details
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Certifications	Meets UL, CE and is approved for use in air-handling plenums; RoHS compliant
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* Typical gypsum ceiling application, equalization to NRC Optimum Spectrum

** Typical gypsum ceiling application, 1W (3.55V)/1m, white noise signal (Clio)

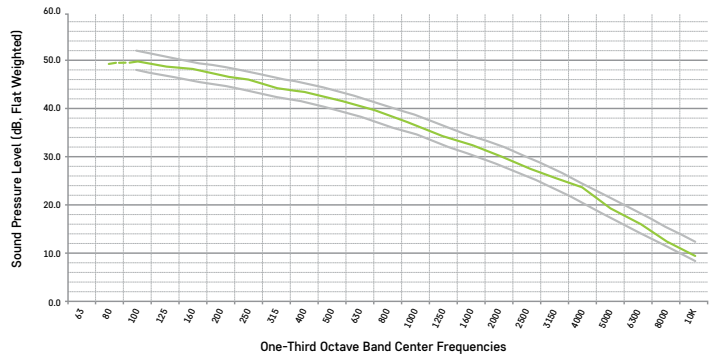


Install Transducers on rigid ceiling surfaces to preserve their clean appearance.

Transducer Frequency Response Performance Testing

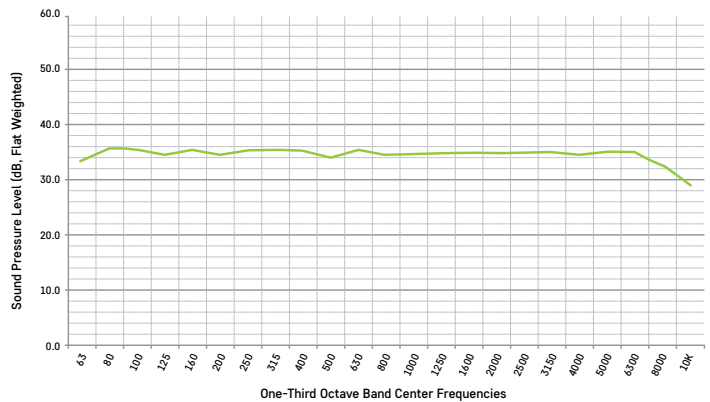
NRC Optimum Masking Spectrum, LogiSon TARGET Equalization

Typical T-1 masking spectrum frequency response on gypsum. Tested at 1 m. Output (green) is well within typical specified tolerances of +/-2.0 dB in each one-third octave band (grey) from 100 Hz to 10,000 Hz for an overall level of 48 dBA. Averaged from three samples, each of which was within the above tolerances. Output extends below the National Research Council (NRC) Optimum Masking Spectrum range, to 80 Hz.



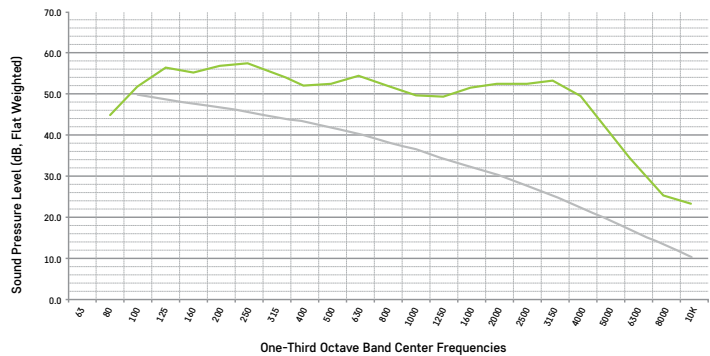
Flat, LogiSon TARGET Equalization

Typical T-1 frequency response on gypsum. Tested at 1 m. Output (green) is from 63 to 10,000 Hz (-6 dB). Overall level is 46.7 dBA. Drop off above 6,300 Hz reflects pre-shaping filters in the masking signal.



90% Maximum Output Settings

Typical T-1 frequency response on gypsum at approximately 90% maximum output settings. Tested at 1.2 m (4 feet) above the floor. Overall level is 62.9 dBA. Output shown relative to NRC Optimum Masking Spectrum (grey) at 48 dBA (typical maximum level during tuning). Output exceeds the 48 dBA spectrum from 100 to 10,000 Hz. Drop off above 4,000 Hz reflects pre-shaping filters in the masking signal.



Testing Details

Three random production samples were tested individually. Using 3M 300LSE adhesive tape, each was affixed to the center of a 4x8-foot, 0.5-inch gypsum ceiling, with metal bracing positioned at 24 inches on center and suspended 10 feet above the floor. The test environment was a large open space (over 5,000 ft²) with concrete walls and flooring, and 14 feet of space above the gypsum ceiling. Measurement

distance was as noted above, using a time-averaged 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, Audiomatica Clio 12 QC Electro-acoustical Measurement System with Clio Class 1 Mic 2, LogiSon Primary Network Hub (PNH-3), and LogiSon

TARGET software. Note that a transducer's frequency response is driven by the material to which it is attached, the manner of attachment and the environment. There are no standardized methods for testing performance. These tests demonstrate that the Transducer (T-1) implemented using TARGET tuning conforms to typical masking specifications in gypsum ceiling applications.



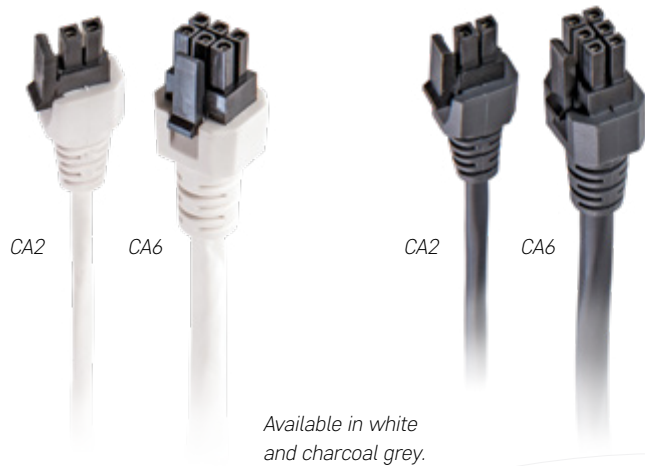


A single line of low-voltage, plenum-rated cable carries power, control and audio signals across the LogiSon Acoustic Network, ensuring efficient installation and a clean appearance. Zoning is digital, not hardwired, allowing changes to be made in minutes.

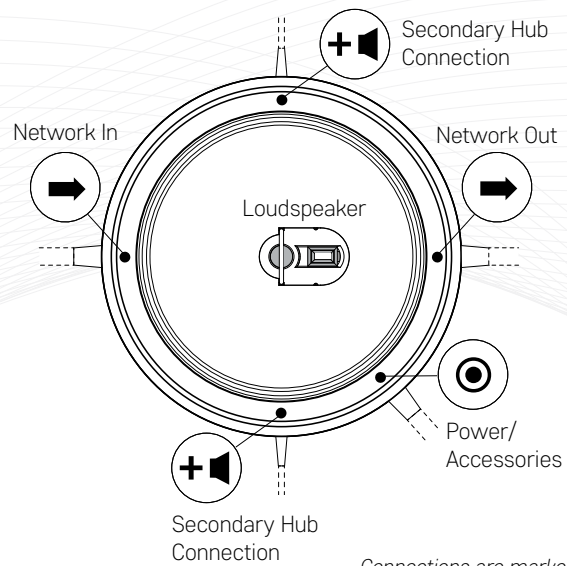
CABLES

Cable Assemblies

Connect the Network Control Panel, Primary Hubs and Programmable Keypads using 6-conductor Cable Assemblies, available in 5, 18, 25, 50 and 100-foot lengths (1.5, 5.5, 7.6, 15.2 and 30.4 meters). Connect Secondary Hubs to Primary Hubs using 2-conductor Cable Assemblies, available in 5, 18, 25 and 50-foot lengths (1.5, 5.5, 7.6 and 15.2 meters). To create longer lengths, connect two assemblies with a Cable Coupler.



Available in white and charcoal grey.



Connections are marked with embossed icons on the hubs.

CA2, CA6

Physical Specifications

Lengths	CA2-5	1.5 m; 5 ft
	CA2-18	5.5 m; 18 ft
	CA2-25	7.6 m; 25 ft
	CA2-50	15.2 m; 50 ft
	CA6-5	1.5 m; 5 ft
	CA6-18	5.5 m; 18 ft
	CA6-25	7.6 m; 25 ft
	CA6-50	15.2 m; 50 ft
	CA6-100	30.4 m; 100 ft
Connectors	2- and 6-pin over-molded micro-connectors featuring orientation guides and positive-lock mechanism	
Gauge	20 AWG	
Material	Copper stranded	
Color	White or charcoal grey	

Warranty 5 years; see LogiSon® Product Warranty for details

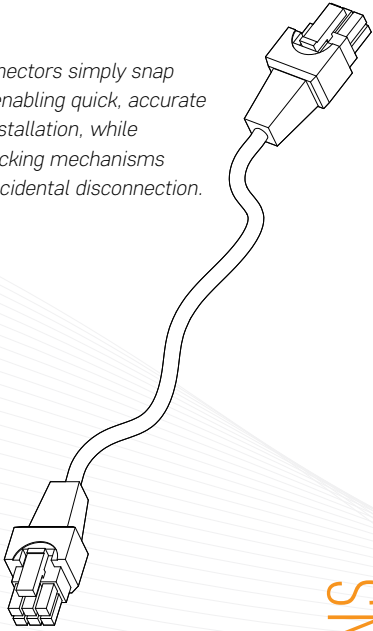
Certifications Meets UL, CE and FCC standards and is approved for use in air-handling plenums; RoHS compliant

SPECIFICATIONS

Cable Couplers

Use Cable Couplers to connect two Cable Assemblies together when a longer length is required. Available in both 2- (CC2) and 6-conductor (CC6) sizes.

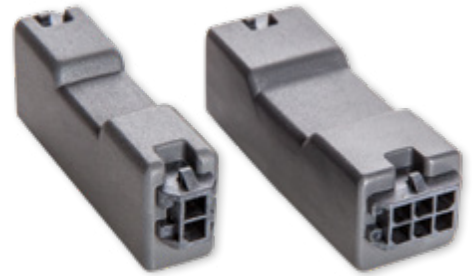
Micro-connectors simply snap together, enabling quick, accurate and tidy installation, while positive-locking mechanisms prevent accidental disconnection.



CC2

CC6

Available in white and charcoal grey.



CC2

CC6

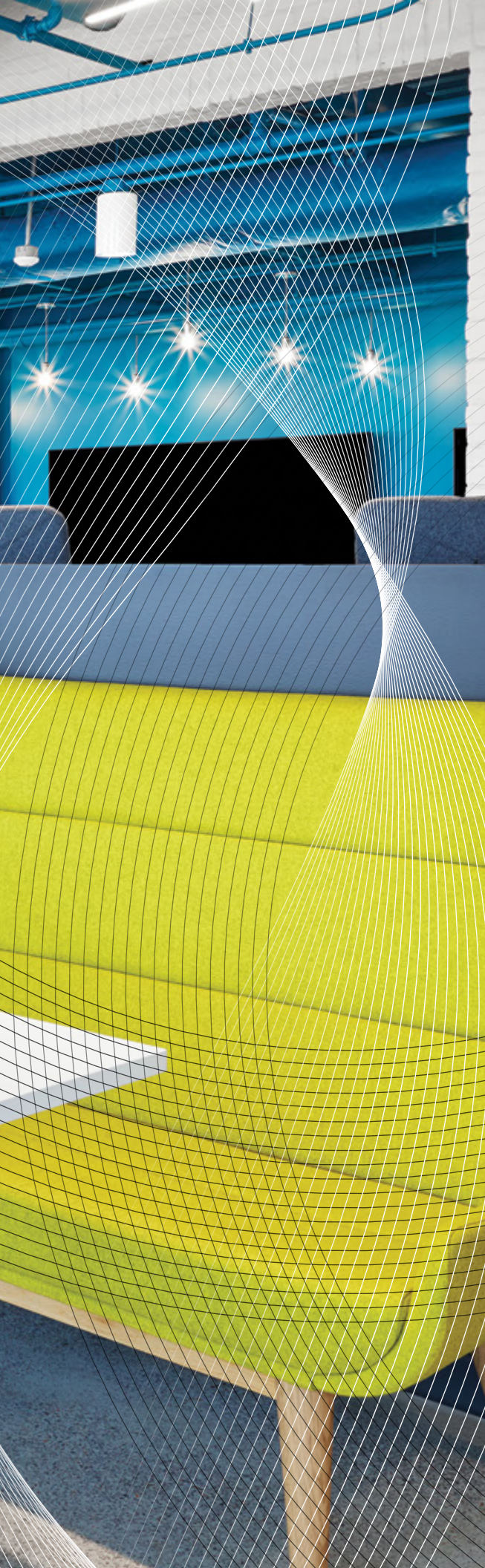
CC2, CC6

Physical Specifications

Sizes	CC2	4 x 1.4 x 0.9 cm; 1.57 x 0.55 x 0.35 inches For use with CA-2 Cable Assemblies
	CC6	4.68 x 1.4 x 1.46 cm; 1.8 x 0.55 x 0.57 inches For use with CA-6 Cable Assemblies
Connectors	2- and 6-pin over-molded micro-connectors featuring lock to mating part	
Color	White or charcoal grey	
Warranty	5 years; see LogiSon® Product Warranty for details	
Certifications	Meets UL requirements; RoHS compliant	

SPECIFICATIONS





In many regions, a Class 2 power supply must be used with a sound masking system or the cable carrying power requires conduit. The LogiSon Acoustic Network uses a Class 2 power supply – and less energy than that of an incandescent lightbulb for an area of 13,500 ft².

POWER

Power Supply

Power the LogiSon Acoustic Network with this UL Energy Efficiency Certified AC/DC switching mode supply.



SPECIFICATIONS

PS

Electrical Performance

Input Voltage	Min 90 VAC; Max 264 VAC
Input Frequency	Min 47 Hz; Max 63 Hz
Output Voltage	30 VDC
Output Power Range	Min 0 W; Max 80 W
Efficiency	Min 75%; Max 88%

Connections

Input	IEC-320-C14 for worldwide applications
Output	Stripped and tinned wires

Physical Specifications

Dimensions (W x H x D)	7.9 x 16.8 x 4.64 cm; 3.1 x 6.63 x 1.83 inches
Color	Black
Weight	0.680 kg; 1.5 lbs
Control	On/off switch

Mounting

Wall mount bracket; height with bracket is 20.1 cm; 7.9 inches

Warranty

5 years; see LogiSon® Product Warranty for details

Certifications

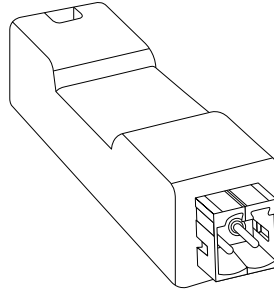
Meets UL, C-UL, TUV, CE, ACMA (C-Tick) and FCC standards; RoHS compliant; UL Energy Efficiency Certified

Power Coupler

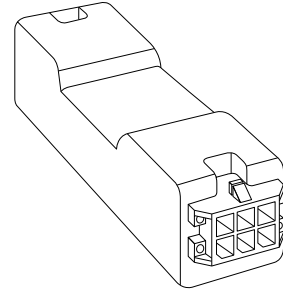
If the system does not require a permanent Network Control Panel, use the Power Coupler (PC) to connect the Power Supply output to the cable running to the first Primary Hub.



Available in white.



Connect this end to the Power Supply.



Connect this end to the CA6 Cable Assembly running to the first Primary Hub.

PC2

Physical Specifications

Dimensions (W x H x D)

4.68 x 1.4 x 1.46 cm; 1.8 x 0.55 x 0.57 inches

Connectors

Overmolded 2-pin power connector and 6-pin micro-connector featuring lock to matching part

Color

White

Warranty

5 years; see LogiSon® Product Warranty for details

Certifications

Meets UL requirements; RoHS compliant

SPECIFICATIONS



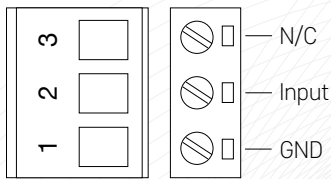


Paging and music play over the same loudspeakers as the masking sound, but zoning and settings are independent, so you don't have to compromise. Amplification and equalization technology are integrated into the hubs, reducing the cost, energy and space typically needed for audio equipment. And because zoning is digital, you can page whenever and wherever required.

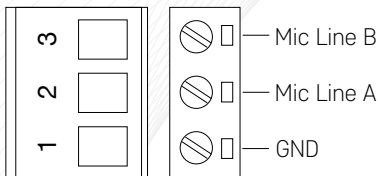
Audio Input Modules

Connect paging and music sources to the LogiSon Acoustic Network. Each Network Control Panel accepts any combination of three inputs: Auxiliary, Microphone and Telephone. All modules offer analog to digital conversion and automatically adjust for input sensitivity.

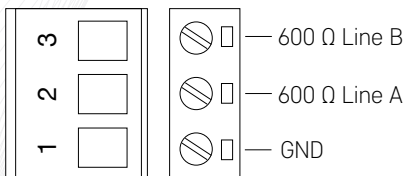
Use the Priority Page Override for voice clarification in 'All Call' situations. It sets the paging volume to a pre-programmed level and plays the announcement over the entire system, simultaneously muting the masking, if desired. Once the page is complete, the LogiSon Acoustic Network returns to its original settings.



AIM-A



AIM-M



AIM-T

SPECIFICATIONS



AIM-A, AIM-M, AIM-T

Auxiliary

Input Impedance	100 kohm
Input Level	10 V maximum
Input Sensitivity	300 mV for maximum output
Gain	Maximum 20 dB, adjustable in thirty two 1 dB steps
Frequency Response	20 to 10,000 Hz

Microphone

Input Impedance	600 ohm
Input Level	30 mV maximum
Input Sensitivity	1 mV for maximum output
Gain	Maximum 70 dB, adjustable in thirty two 1 dB steps
Frequency Response	20 to 10,000 Hz

Telephone

Input Impedance	600 ohm
Input Level	10 V maximum
Input Sensitivity	300 mV for maximum output
Gain	Maximum 20 dB, adjustable in thirty two 1 dB steps
Frequency Response	20 to 10,000 Hz

Warranty

5 years; see LogiSon® Product Warranty for details

Certifications

Meets UL, CE, ACMA (C-Tick) and FCC standards; RoHS compliant

Page Director

Create, alter or delete an unlimited number of page zones, on demand. Paging is possible at a single loudspeaker or over any given range of loudspeakers, offering virtually unlimited control over any number of floors or buildings.

Simply select the desired loudspeakers, name the zone and enter a description for future reference—for example, 'Floor 1, Meeting Room.' Select one of three Audio Input Modules to use for each page, such as a microphone. If only one device is available, the software selects it by default. Manually end the page or set it to finish automatically, after which the system returns to its default settings. Sort paging zones into user-defined categories and subcategories for easy accessibility. For more details, see the help file or user guide.



Launch the software with this desktop icon.

SPECIFICATIONS



PD

Operating Systems	Windows 10 Windows 8/8.1 Windows 7 SP1 or later Windows Vista SP2 or later
Architectures	X86 X64
Hardware Requirements	Computer with 1 GHz or faster processor with 1 GB RAM or more Graphics parts supporting WDDM drivers (Windows Display Driver Model) recommended Minimum disk space (Microsoft components/Installation): X86 - 4.5 GB; X64 - 4.5 GB Disk space (LogiSon components): 5 MB
Prerequisites	Microsoft .NET Framework 4.5.2 or later (incl. with Windows 10 or later)





The LogiSon Acoustic Network is secured using physical, electronic and digital methods. Performance is monitored 24/7, down to individual loudspeakers. If an issue occurs, the system can provide a warning signal and send an email to specified recipients.

SECURITY

Relay Output Module

Connect the Network Control Panel to up to two external devices, such as warning lights, sirens and/or a security system. If the panel detects an issue with a loudspeaker, communication, power or another input, the module activates the external device, alerting users.



SPECIFICATIONS

ROM

Relay Output

Rated Load

0.5 A at 125 VAC; 1 A at 24 VDC

Warranty

5 years; see LogiSon® Product Warranty for details

Certifications

Meets UL, CE, ACMA (C-Tick) and FCC standards;
RoHS compliant

Acoustic Network Supervisor

Monitor the LogiSon Acoustic Network using this software, which sends an email if it detects an issue. Because it runs as a Windows Service, a hardware failure won't impact its ability to send an alert.

Prior to use, define the intervals at which the system is checked, as well as to whom notification should be sent—for example, the facility manager and/or IT personnel. Add vendor information to tell the recipient who to contact and, if monitoring multiple facilities or floors for various tenants, a unique subject to identify the location. For more details, see the help file or user guide.



Launch the software with this desktop icon.

SPECIFICATIONS



ANS

Operating Systems	Windows 10 Windows 8/8.1 Windows 7 SP1 or later Windows Vista SP2 or later Windows Server 2008 SP2 or later Windows Server 2008 R2 SP1 or later Windows Server - Later servers include required framework
Architectures	X86 X64
Hardware Requirements	Computer with 1 GHz or faster processor with 1 GB RAM or more Graphics parts supporting WDDM drivers (Windows Display Driver Model) recommended Minimum disk space (Microsoft components/Installation): X86 - 4.5 GB; X64 - 4.5 GB Disk space (LogiSon components): 5 MB
Prerequisites	Microsoft .NET Framework 4.5.2 or later (incl. with Windows 10 or later)

A HISTORY OF INDUSTRY FIRSTS...



1978

The company begins by offering the SCAMP® Sound Masking System, a decentralized architecture with a single type of self-contained device offering pseudo-random sound generation, a choice of two fixed frequency curves, and basic volume control in ten 1.5 dBA steps.



2003

The R&D team returns to the drawing board. Their goal? To leverage emerging technologies in order to provide clients with more flexibility and ease-of-use, as well as even greater speech privacy, noise control and comfort.



2005

The company continues to support its large SCAMP client base by releasing a modernized version of that system.



And also continues to add new features to the LogiSon Acoustic Network, maintaining its leadership position. Here are a few highlights...



2004

Programmable Keypad, the first customizable room occupant control for masking, paging and music.



2005

Low-Profile Loudspeaker for shallow plenums and Chicago Loudspeaker for regions requiring installation in conduit.



2006

Page Director, allowing users to create and change custom page zones on demand.



2009

Acoustic Network Supervisor, a Windows Service that monitors system operation and sends email notifications.



2012

Unique loudspeaker detection and monitoring functions, as well as voltage level monitoring, truly random digital sound generation, and a Fail-Safe Power Solution.



2014

Room Manager, providing on-demand control of masking and paging volume in individual rooms, from a PC.

Over the next 25 years, adds new features to the SCAMP System, including:

Gen II - A patented random sound generator and the first variably-sized zones with Master and Satellite devices.

Gen III - The first continuously variable spectrum control, stepless volume adjustment, and centralized large-zone volume control.

Gen IV - The first decentralized timer, integrated central volume control Master devices, and low-profile loudspeakers.

Gen V - PC software control, multiple timer zones and programming options, as well as ramp-up period scheduling.

Launches the world's first networked sound masking system, the LogiSon® Acoustic Network, cementing the company's status as the industry gamechanger.

The system offers an unprecedented level of control and features benefiting all stakeholders: auto-addressed networked masking devices, centralized control of individual loudspeakers via hardware and software, third-octave frequency adjustment for small zones, independent digital zoning of masking/paging/timer functions, multiplexed digital paging/music, integrated paging amplifiers, separate masking and audio volume/frequency controls, monitoring and diagnostics for decentralized components, loudspeaker ping, priority page override, connector-based cabling and attractive components for open ceilings.

Introduces the AccuMask® Sound Masking System, a re-engineered decentralized architecture featuring digital control and IR remote adjustment, as well as integrated ramp-up function and paging mute/volume control.



2014

The company re-engineers the equalizer within the LogiSon hub in preparation for the release of a revolutionary new software.



Introduces TARGET, a unique application that third-octave tunes small zones of one to three loudspeakers to the desired curve far faster and more precisely than formerly achievable, even by expert technicians. TARGET reduces tuning time by 90 percent or more, while achieving the specified curve within ± 0.5 dBA.

The following year, the company discontinues the AccuMask System, signalling to the industry that, in a post-TARGET world, the time has come for all products based on older masking architectures—centralized and decentralized—to be shelved.



2017

Installing their technology in patient rooms highlights how it not only improves privacy, but also helps occupants sleep. That attention to slumber brings the company into the hospitality field.



Launches MODIO® Guestroom Acoustic Control, the first commercial-grade masking device specifically designed for hotels, allowing occupants to adjust the level of noise control in their room the same way they set temperature and lighting. The following year, MODIO picks up several awards: Best of BD West, HIP Award Honoree, HD Award Finalist, Buildings Product Innovations and Money Saving Products Awards.



YEARS OF SOUND THAT WORKS

Looks forward to ongoing research and continuous product innovation, intending to further advance sound masking technology and understanding of its role within the built environment.



2018



NOW

Today, the company's products are available globally and installed in many hundreds of millions of square feet for clients ranging in size from small business to Fortune 100. They've attained over 25 patents relating to masking technology, authored more than 175 articles and CEUs, and are currently working together with such notable organizations as ASTM, ASA, CAA, GBI, FGI, and WELL to advance acoustic best practices and industry standards.

...AND ACCOLADES

Since launch, the LogiSon Acoustic Network has won over 20 awards, including:

Best of NeoCon
Five-Time Winner

NSCA Innovations in Technology Award

IIDEX/NeoCon Canada
Three-Time Winner

Symposium Distinction Award

Buildings Top 100 Products
Two-Time Winner

Buildings Innovation Award
Three-Time Winner

Buildings Money Saving Product

Building Operating Management
Top Product Award

Nightingale Award
Three-Time Winner

SET THE PERFORMANCE BAR

The importance of your sound masking specification shouldn't be underestimated.

In order to save you time and effort, while ensuring effective and comfortable sound masking, we offer two types of specs. Simply choose the one that works best for your project.

To Sole Source

If you can sole source your sound masking system, download the *LogiSon Sound Masking 3-Part Specification*.

Selecting the LogiSon Acoustic Network provides industry-leading sound masking performance, as well as access to premium services and many unique features, including:

- Patented networked technology
- Precise automated TARGET tuning
- Multi-tiered network architecture
- Fully programmable in-room controls
- Truly random masking sound generation
- Enhanced diagnostic and supervisory features
- End-to-end monitoring, down to each speaker
- A dedicated hardware control panel
- Encrypted communication with the control panel
- Automatic geographic addressing of devices
- Streamlined appearance for open ceilings
- Enhanced timer functions
- Simplified cabling in your ceiling
- Fail-safe power supplies

If your application requires any of these exclusive features, use the *LogiSon Sound Masking 3-Part Specification*. It's worth it.

To Allow Alternate Bids

If you can't sole source, it's still essential to set a performance bar.

While it's unusual for a manufacturer to offer a spec that opens the door to competitors, the *Generic Performance-Based Sound Masking Specification* provides key benefits to clients who require multiple proposals.

Project teams in this position often try to use a proprietary spec or one cobbled together from various proprietary specs. In the former case, the terms can only be met by one vendor. In the latter, they can't be met by any vendor. The spec ends up being ignored, leaving the facility's acoustics up to chance.

The generic spec will help achieve effective masking performance across your space, regardless of which product you ultimately select. This document:

- Does not contain proprietary elements
- Focuses on qualities critical to masking performance
- Uses evidence-based criteria set to commonly-achievable levels
- Allows modern networked-decentralized systems to be bid

If you ensure that proposals adhere to this spec and hold your vendor accountable to its post-installation steps, no one can take shortcuts at your expense.

Both types of specs are available for download in CSI and CSC formats at:

soundmaskingspecs.com

A man in a grey suit is running joyfully towards the viewer, with his right arm raised in a fist and a wide smile. The background is a dark blue wall with several curved, wavy lines in orange and yellow. In the lower right corner, a modern office interior is visible, featuring white desks, computers, and office chairs. The floor is a light-colored, reflective surface.

FOR HAPPY EMPLOYEES



www.logison.com