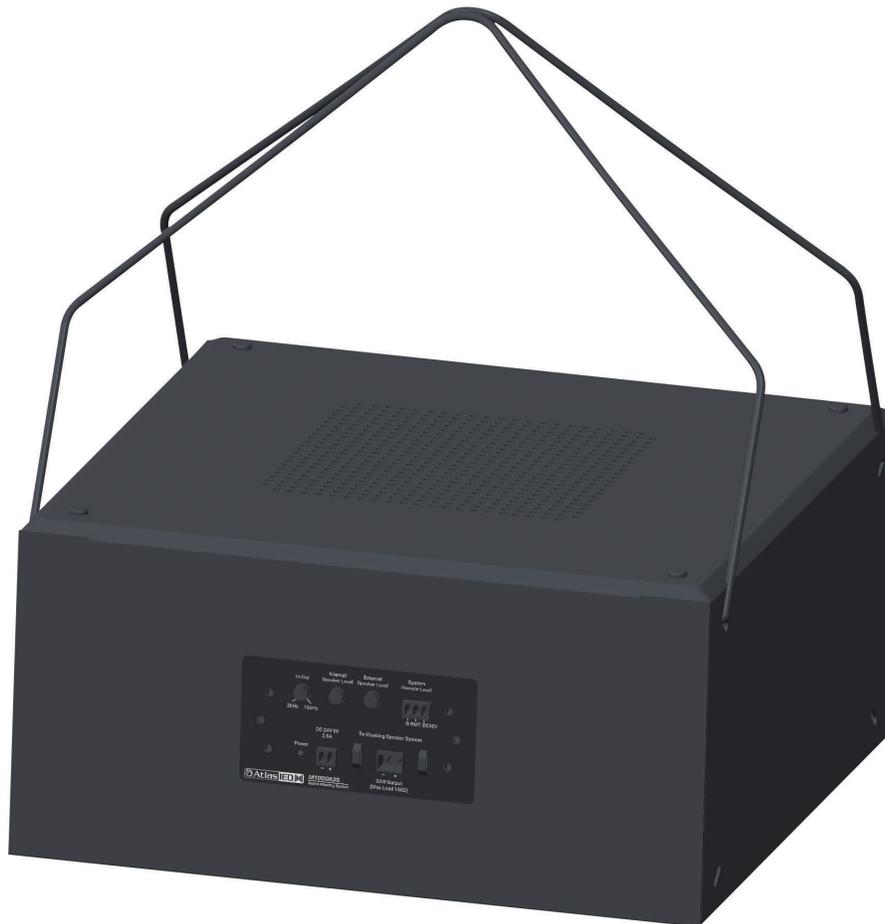




M1000A35

Self-Contained Active Masking System



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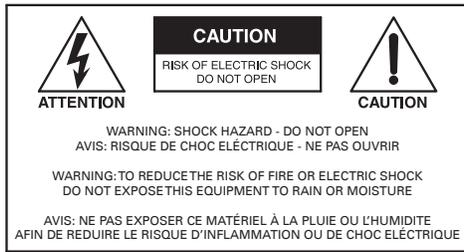
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Important Safety Instructions



The lightning flash with arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this device near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other device that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the device.
11. Only use attachments / accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the device. When a cart is used, use caution when moving the cart / device combination to avoid injury from tip-over.



13. Unplug this device during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the device has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled, or objects have fallen into the device, the device has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. This product is equipped with a three-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.
16. **WARNING:** To reduce the risk of fire or electric shock, this device should not be exposed to rain or moisture and objects filled with liquids, such as a vase, should not be placed on this device.
17. To completely disconnect this equipment from the mains, disconnect the power supply cord plug from the receptacle.
18. The mains plug of the power supply cord shall remain readily operable.
19.  Protective earthing terminal. The apparatus should be connected to a mains socket with a protective earthing connection.

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WARNING - When The Device Is In Use

- WARNING: For the terminals marked with symbol of ⚡ may be of sufficient magnitude to constitute a risk of electric shock. The external wiring connected to the terminals requires installation by an instructed person or the used of ready-made leads or cords.
- WARNING: The apparatus shall not be exposed to dripping or splashing and that objects filled with liquids, such as vases, shall not be placed on apparatus.
- WARNING: The mains plug is used as disconnect device, the disconnect device shall remain readily operable.
- To prevent electric shock, do not remove the product cover as there are high voltage components inside. Refer all servicing to AtlasIED.
- Should any of the following irregularities occur during use, immediately switch off the power, disconnect the power cord from the AC outlet and contact AtlasIED. Do not to attempt to continue operation with the product as this may cause fire or electric shock:
 - Smoke or strange smell coming from the unit.
 - If the product falls or the case is damaged.
 - If water or any metallic objects falls into the product.
 - If the power supply cord is damaged in any way.
 - If the unit is malfunctioning.
- Do not insert or drop metallic objects or flammable materials into the ventilation holes of the product's cover, as this may result in electric shock or fire.
- Do not place any containers with liquid or metallic objects on the top of the product. If any liquid spills into the unit, fire or electric shock may result.
- Never operate this product or touch the power supply cord during an electrical storm, electric shock may result.
- Never exceed the power rating on the product when connecting equipment. Fire and/or property damage may result.
- Operate the product only with the voltage specified on the unit. Fire and/or electric shock may result if a higher voltage is used.
- Do not modify, kink, or cut the power cord. Do not place the power cord in close proximity to heaters and do not place heavy objects on the power cord, including the product itself, doing so may result in fire or electrical shock.
- Ensure that the safety ground terminal is connected to a proper ground. Never connect the ground to a gas pipe as a catastrophic disaster may result.
- Be sure the installation of the product is stable, avoid slanted surfaces as the product may fall and cause injury or property damage.



CAUTION - When Installing The Product

- Plugging in or unplugging the power cord with wet hands may result in electric shock.
- Never move the unit with the power cord plugged into the wall, as damage to the power cord may result.
- When unplugging the cord from the wall, grasp the plug, NOT the cord.
- Never install this product in humid or dusty locations, nor in direct sunlight, near sources of heat, or in areas where sooty smoke or steam are present. Fire and electric shock may result.
- Keep all sides of the unit at least 3 1/2" away from objects that may obstruct air flow to prevent the unit's internal temperature rise.



CAUTION - When The Product Is In Use

- Never place heavy objects on the product, causing it to fall and/or break, resulting in personal injury and property damage. In addition, the product itself may fall and cause injury and property damage.
- Contact AtlasIED for instructions on cleaning the inside of the unit. Large accumulations of dust inside the unit may result in heat buildup and fire.
- Ensure that the power supply plug is securely plugged into the wall outlet. Never allow dust to accumulate on the power plug or inside the wall outlet.
- When cleaning the unit or the unit is not to be operated for an extended period, unplug the power cord from the wall.

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Introduction

The AtlasIED M1000A35 is a self-contained Analog Sound Masking System. The M1000A35 features a compact enclosure utilizing an efficient wide range 8" speaker powered by an internal 5-Watt amplifier. The M1000A35 also features a 30-Watt amplifier slave output to drive other non-powered masking speakers such as the AtlasIED M1000, M1000R and the M2000. The M1000A35 is capable of powering a masking system up to 5000 sq ft of coverage. Separate amplifier level controls are incorporated to control the internal speaker and slave output. A variable Hi-Cut filter allows for contouring the masking spectrum to the environment. A remote level control port is incorporated to allow for easy access level adjustments. The M1000A35 is ideal for small to medium size installations that require a self-contained system.

The M1000A35 is highly efficient utilizing a Class D topology amplifier and is UL2043 Plenum rated. The included power supply is an external in line UL rated 24VDC power supply requiring no additional electrical conduit in most United States cities' electrical codes.

Installation is easy to do by utilizing a single suspension point mounting method. Included are two removable hanger brackets.

Key Features

- Able to Power a Masking System up to 5000 sq ft of Coverage
- UL2043 Plenum Rated
- Energy Efficient
- Efficient Wide Range 8" Speaker
- 5-Watt Class D Topology Amplifier to Power Internal Speaker
- 30-Watt Amplifier Slave Output to Feed Additional Passive Speakers
- Separate Internal Speaker & Slave Output Level Controls
- Variable Hi-Cut Filter
- External UL Rated 24VDC In-Line Power Supply
- Remote Level Control GPIO Port
- 2 Removable Hanger Handles for Suspended Mounting
- Optional ATMASKSC Masking Commissioning Level Control

Applications

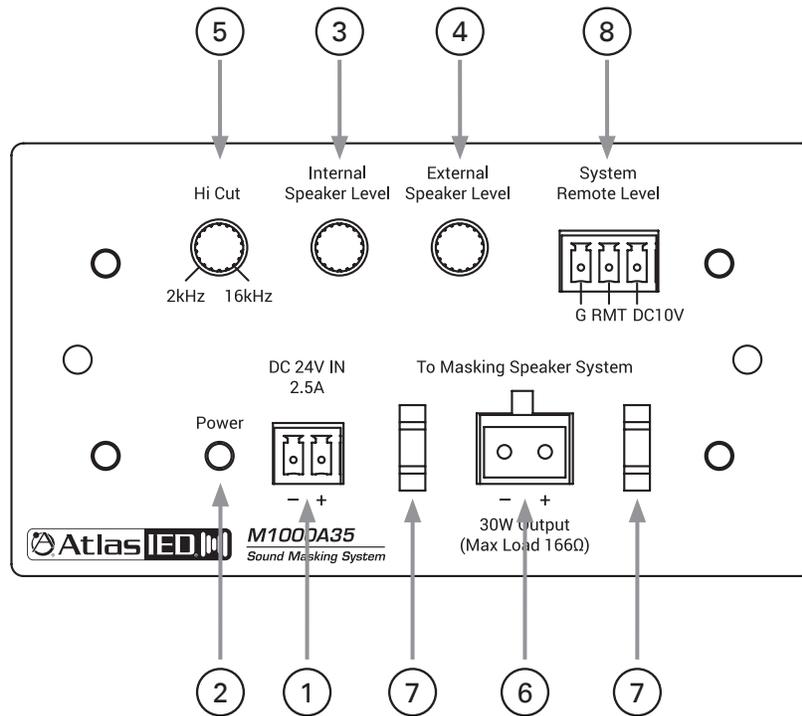
Achieve acoustical privacy in open and partitioned office areas by installing AtlasIED's self-contained sound masking system. The M1000A35 is a compact assembly that adds low-level sound into an environment to obscure ambient noise, thus achieving conversational privacy in designated areas. The equalized masking sound lowers intelligibility and "masks" disruptive outside sounds.

This easy-to-install system may be used in general applications to increase privacy and / or productivity in individual cubicle and work areas by "blocking out" surrounding conversations. It is also used in individual office areas, common waiting areas, and professional offices where confidential conversations occur.

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Controls and Features



1. DC Power Input

A UL Certified external 24VDC 2.5A power supply is supplied to power the M1000A35. Powering the M1000A35 requires use of the included external power supply. It is suggested to place the M1000A35 within 6ft of a 120V AC outlet. If this is not possible, the power supply wire for the 24VDC output can be extended up to 50ft. **Note:** This does not void the warranty as it is the low voltage wire that is being extended. **Note:** Pay attention to the DCV polarity when reconnecting the removable Phoenix connector. **Note:** Only use this approved power supply or failure may occur. Must be installed by a qualifier technician.

2. Power Indicator

A Blue LED will illuminate if the External DC power supply is plugged into the receptacle and has AC power supplied.

3. Internal Speaker Level Control

The M1000A35 has one internal 8" speaker. A level control has been incorporated to adjust the level of the internal speaker. Rotating clockwise increases the signal. **Note:** When the gain is turned fully counter-clockwise there will still be some signal present at the output.

4. External Speaker Level Control

A level control has been incorporated to adjust the level of the external 30W amplifier slave output. Clockwise increases the signal. The Internal and External Level Controls are independent of each other. **Note:** When the gain is turned fully counter-clockwise there will still be some signal present at the output.

5. Hi-Cut EQ

This potentiometer allows one to adjust the masking signal parameter to meet a basic masking spectrum. This Hi-Cut filter adjusts from 2kHz - 16kHz at 6dB per octave. **Note:** The EQ affects both the internal and external amplifiers.

6. External 30W Amplifier Slave Output

This 30-Watt amplifier output can power additional 70V non-powered masking speakers. The AtlasIED M1000 speakers are recommended. This amplifier output has its own level control but utilizes the same masking signal for both the internal speaker amplifier and external amplifier.

7. Power Cord & Speaker Cable Strain Relief Point

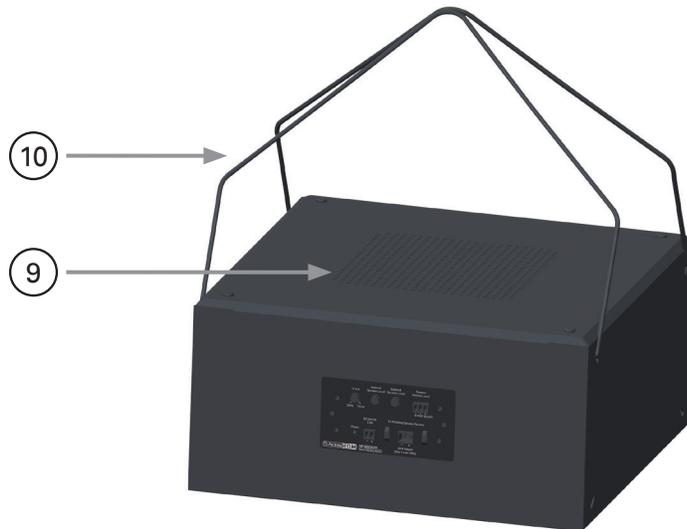
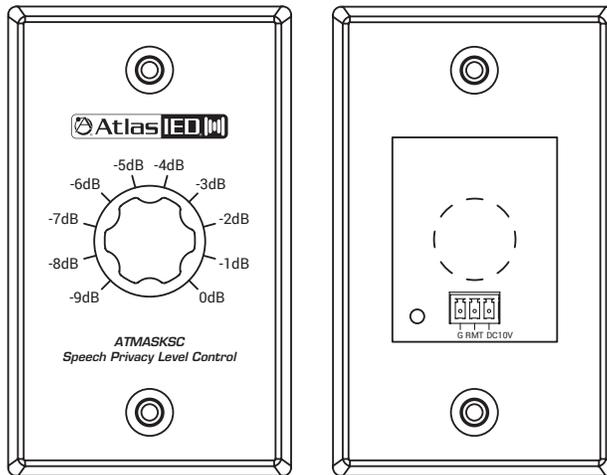
To secure power cord to chassis place a cable tie through the slot and around the cord.

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8. Remote Level GPIO Control Port

This VCA technology control port features an industry standard 10V DC, Ground, and RMT port for external control. Most 10k Ohm potentiometers can be used with this control port. We recommend using the AtlasIED ATMASKSC Speech Privacy Level Control. The ATMASKSC features calibrated 1dB level steps making it ideally suited to work with the M1000A35 when commissioning a masking system. **Note:** The ATMASKSC will attenuate the level a maximum of 9dB and will not turn the signal completely off. If it is necessary to fully attenuate the signal, we suggest the AtlasIED WPD-VC10K. It is important to follow the wiring labels from the M1000A35 control port to the ATMASKSC control ports. It requires 3-wire conductors, 22-24 gauge. The remote level control can be placed several hundred feet away from the M1000A35.



9. Internal Speaker

The M1000A35 has one internal 8" speaker. To adjust the speaker level use the internal speaker level control.

10. Hanger Brackets

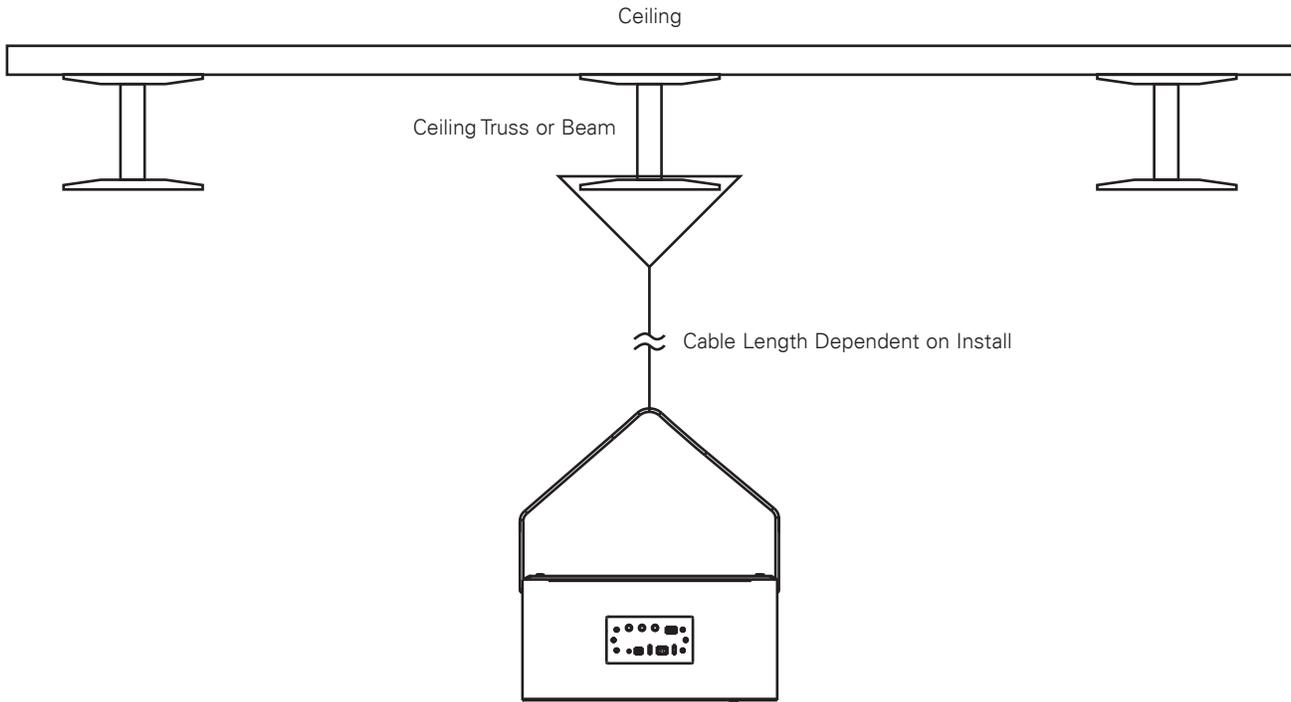
There are two hanger brackets included with the M1000A35. These can be used to suspend the unit from a simple point.

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Installation

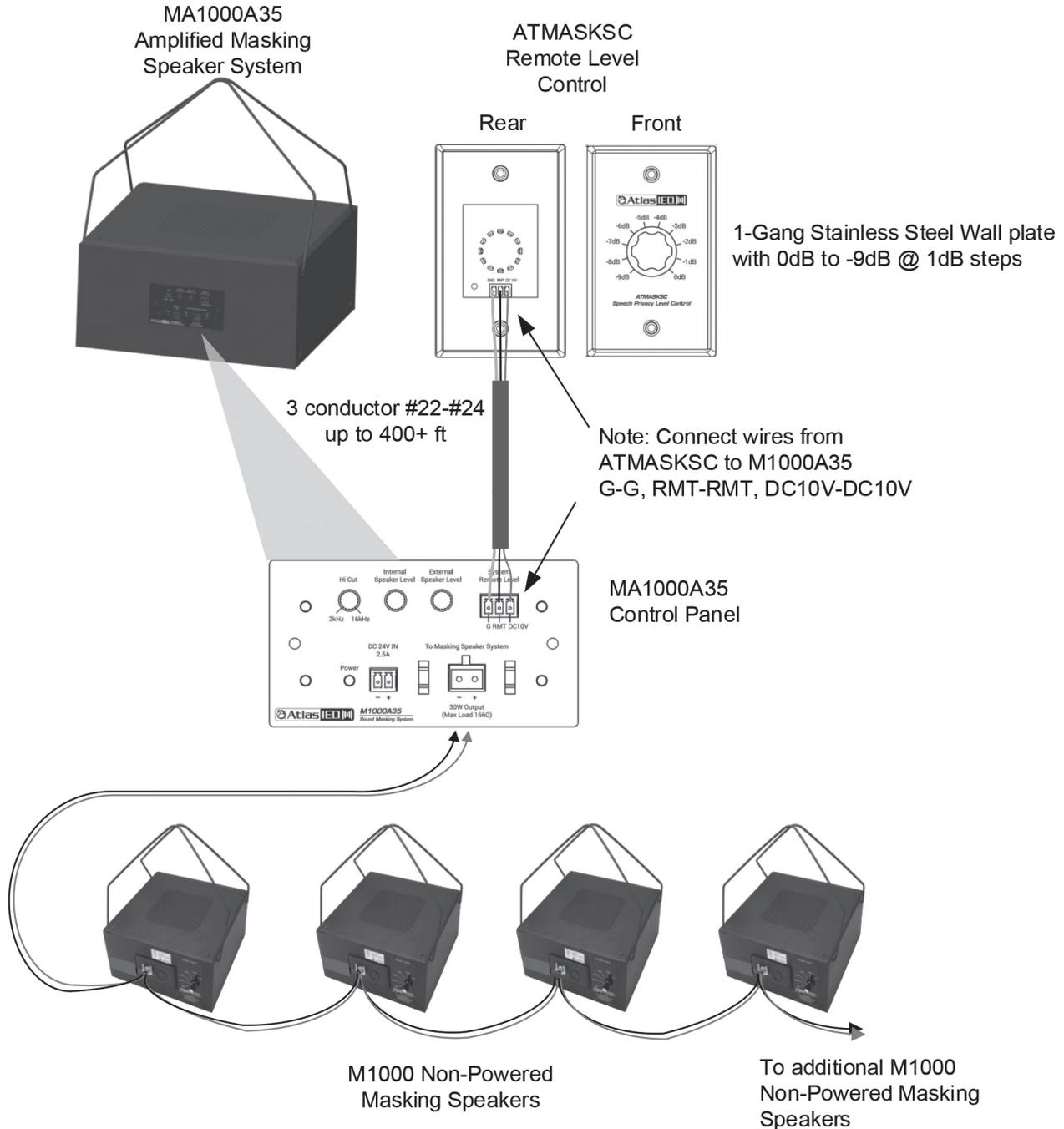
The illustration below shows how to mount the M1000A35 to an open or plenum ceiling. AtlasIED suggests suspending the unit via a cable to the enclosed hanging brackets. The cable must be secured enough to handle 5 times the weight of the unit. **Note:** The suspension location in the ceiling must meet local building codes. Contact a local building inspector prior to installation. Placement of the M1000A35 must be within 6 ft of an approved electrical outlet that meets the local electrical codes.



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Installation Diagram



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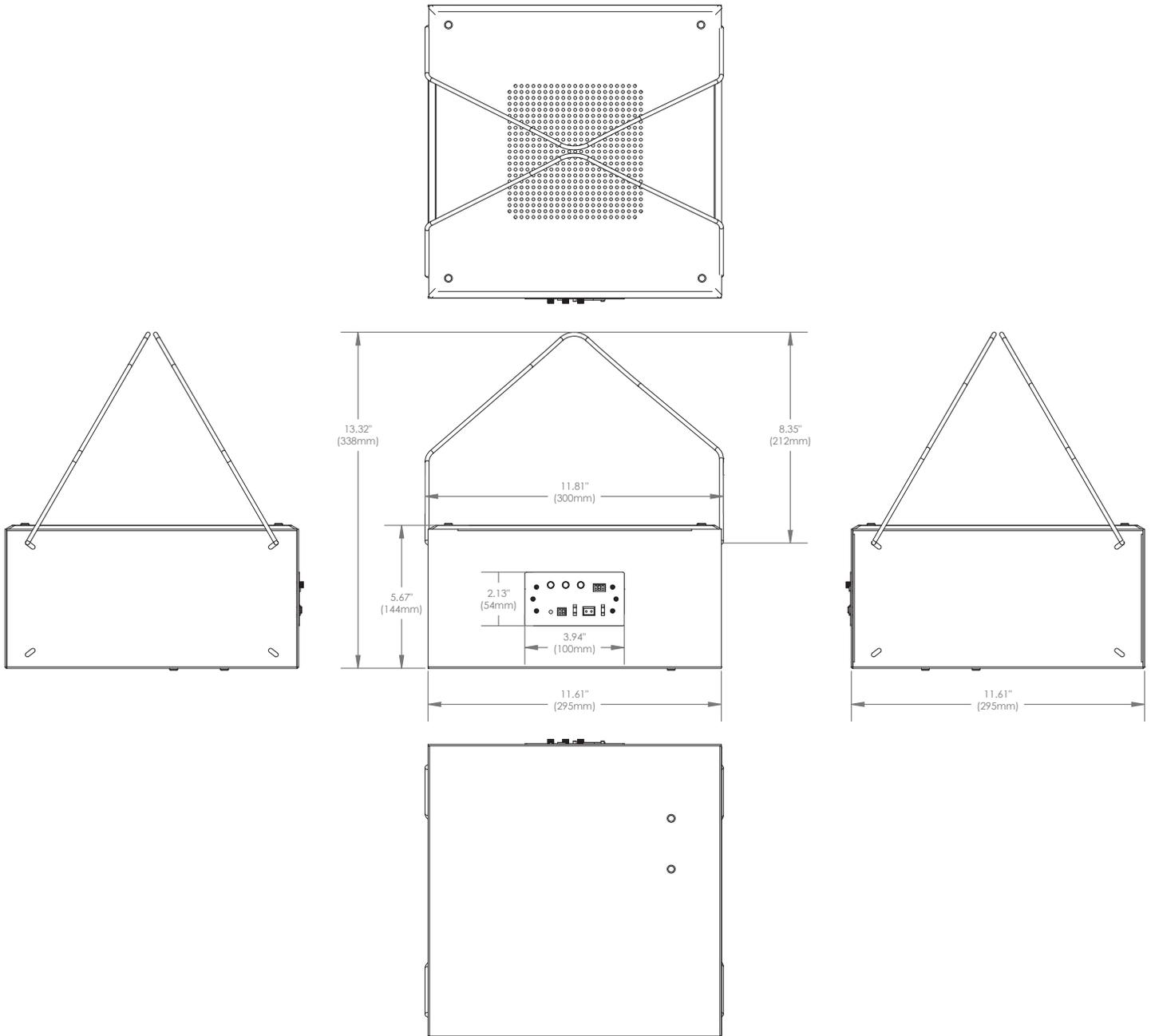
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System	
Type	Self-Contained Active Sound Masking System
Speaker	8" Full Range, Qty 1
Amplified Power	Internal 5-Watts, External Amplifier Slave Output 30-Watts
Electrical	
Frequency Response	80Hz - 16kHz
Masking Noise Generator	Contoured Pink Noise
Level Control	Internal Speaker, External Amplifier Slave Output
Amplifier Type	Class D
Maximum Output Voltage	70.7V
Hi-Cut Control	Variable 2kHz - 16kHz 6dB per Octave
GPIO Port	Remote Level Control G, Return, +10V, 3 Position Removable Euro Style, 3.5mm Pitch
External Amplifier Output	30-Watts, 2 Position Removable Euro Style, 5.08mm Pitch
Power Supply Input	2 Position Removable Euro Style, 3.5mm Pitch (Power Supply Included)
AC Mains Requirements	
Power Supply & Voltage	External In-line, 100 - 240V AC 24VDC 2.5A (Included)
AC Mains Operating Range	100V - 240V 50 / 60Hz
AC Current Draw Idle 120V	60mA, 7-Watts, 23 BTU
Max Current Draw 120V	370mA, 44-Watts, 150BTU
AC Current Draw Idle 230V	22mA, 5-Watts, 17 BTU
Max Current Draw 230V	172mA, 40-Watts, 136 BTU
Indicators	
Power LED	Blue LED
Mechanical	
Finish	Black Semi-Gloss Epoxy
Dimensions (HxWxD)	5.67" x 11.61" x 11.61" (144mm x 295mm x 295mm)
Shipping Dimensions (HxWxD)	27.36" x 16.15" x 16.15" (695mm x 410mm x 410mm)
Unit Weight - lbs	9.7lb (4.4kg), with Power Supply 10.33lb (4.69kg)
Shipping Weight - lbs	11.25lb (5.11kg)
Mount Requirements	Suspension Mount (2 Brackets Supplied)
Safety	
Complete Unit with Power Supply	UL2043, CE
External Power Supply	UL, CE

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Dimensional Drawings



Limited Warranty

All products manufactured by AtlasIED are warranted to the original dealer/installer, industrial or commercial purchaser to be free from defects in material and workmanship and to be in compliance with our published specifications, if any. This warranty shall extend from the date of purchase for a period of three years on all AtlasIED products, including SOUNDOLIER brand, and ATLAS SOUND brand products except as follows: one year on electronics and control systems; one year on replacement parts; and one year on Musician Series stands and related accessories. Additionally, fuses and lamps carry no warranty. AtlasIED will solely at its discretion, replace at no charge or repair free of charge defective parts or products when the product has been applied and used in accordance with our published operation and installation instructions. We will not be responsible for defects caused by improper storage, misuse (including failure to provide reasonable and necessary maintenance), accident, abnormal atmospheres, water immersion, lightning discharge, or malfunctions when products have been modified or operated in excess of rated power, altered, serviced or installed in other than a workman like manner. The original sales invoice should be retained as evidence of purchase under the terms of this warranty. All warranty returns must comply with our returns policy set forth below. When products returned to AtlasIED do not qualify for repair or replacement under our warranty, repairs may be performed at prevailing costs for material and labor unless there is included with the returned product(s) a written request for an estimate of repair costs before any nonwarranty work is performed. In the event of replacement or upon completion of repairs, return shipment will be made with the transportation charges collect.

EXCEPT TO THE EXTENT THAT APPLICABLE LAW PREVENTS THE LIMITATION OF CONSEQUENTIAL DAMAGES FOR PERSONAL INJURY, ATLASIED SHALL NOT BE LIABLE IN TORT OR CONTRACT FOR ANY DIRECT, CONSEQUENTIAL OR INCIDENTAL LOSS OR DAMAGE ARISING OUT OF THE INSTALLATION, USE OR INABILITY TO USE THE PRODUCTS. THE ABOVE WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

AtlasIED does not assume, or does it authorize any other person to assume or extend on its behalf, any other warranty, obligation, or liability. This warranty gives you specific legal rights and you may have other rights which vary from state to state.

Service

Should your M1000A35 Self-Contained Active Masking System require service, please contact the AtlasIED warranty department at 1-800-876-3333 or atlaswarranty@atlasied.com to obtain an RA number.

AtlasIED Tech Support can be reached at 1-800-876-3333 or www.atlasied.com/support.

Visit our website at www.atlasied.com to see other AtlasIED products.