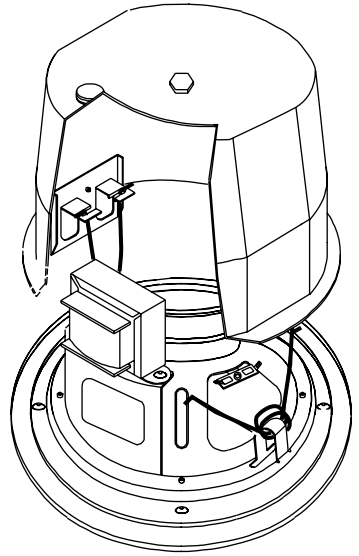




# CIS50 CIS65 CIS80

Ceiling Loudspeakers




## INSTRUCTION MANUAL


# 1. SAFETY INSTRUCTIONS

1. Read Instructions
2. Keep these Instructions
3. Heed all Warnings
4. Follow all Instructions
5. Do not use this apparatus near water.
6. Clean only with a 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 apparatus (including amplifiers) that produce heat.
9. Only use attachments/accessories specified by the manufacturer.
10. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
11. The entire sound system must be designed in compliance with the current standards and laws regarding electrical systems.
12. When installing and using this apparatus, keep in mind the technical specifications indicated in the dedicated section of the manual.
13. Exposure to high sound levels can cause permanent hearing loss. The sound pressure level which leads to hearing loss varies considerably from one person to another, and depends on the duration of exposure. The U.S. Government's Occupational Safety and Health Administration (OSHA) has established the maximum sound pressure levels that can be with stood without causing damage, which are shown in the table below. According to the OSHA regulations, any exposure over the maximum limits indicated in the table can reduce the hearing capacity of a person. To prevent potentially dangerous exposure to high sound pressure levels, anyone subjected to such levels must use suitable protection. When a EAW Commercial product capable of producing high sound levels is being used, it is therefore necessary to wear ear plugs or protective earphones when the limits shown in the table are exceeded. Consult the specifications provided in the instruction manual to know the maximum sound pressure (SPL) the loudspeaker is capable of producing.

**CAUTION AVIS**



**RISK OF ELECTRIC SHOCK • DO NOT OPEN**  
**RISQUE DE CHOC ELECTRIQUE**  
**NE PAS OUVRIR**



**CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK**  
**DO NOT REMOVE COVER (OR BACK)**  
**NO USER-SERVICEABLE PARTS INSIDE**  
**REFER SERVICING TO QUALIFIED PERSONNEL.**

**ATTENTION: POUR EVITER LES RISQUES DE CHOC ELECTRIQUE, NE PAS ENLEVER LE COUVERCLE. AUCUN ENTRETIEN DE PIECES INTERIEURES PAR L'USAGER. CONFIER L'ENTRETIEN AU PERSONNEL QUALIFIE.**

**AVIS: POUR EVITER LES RISQUES D'INCENDIE OU D'ELECTROCUTION, N'EXPOSEZ PAS CET ARTICLE A LA PLUIE OU A L'HUMIDITE**



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.

Le symbole éclair avec point de flèche à l'intérieur d'un triangle équilatéral est utilisé pour alerter l'utilisateur de la présence à l'intérieur du coffret de "voltage dangereux" non isolé d'ampère suffisante pour constituer un risque d'électrocution.



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

Le point d'exclamation à l'intérieur d'un triangle équilatéral est employé pour alerter les utilisateurs de la présence d'instructions importantes pour le fonctionnement et l'entretien (service) dans le livret d'instruction accompagnant l'appareil.

**WARNING!** *This equipment has been designed to be installed by qualified professionals only! There are many factors to be considered when installing professional sound reinforcement systems, including mechanical and electrical considerations, as well as acoustic coverage and performance. EAW Commercial strongly recommends that this equipment be installed only by a professional sound installer or contractor.*

Duration per day (hours)	Sound level (dBA)	Typical example
8	90	Duo in a small club
6	92	
4	95	Subway train
3	97	
2	100	Very loud classical music
1.5	102	
1	105	Locomotive at 50 feet
0.5	110	
0.25 or less	115	Loudest parts at a rock concert

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## 2. INTRODUCTION

This manual describes the CIS50, CIS65 and CIS80 loudspeakers. These are designed for flush-mounting ceiling installation.

The HF and LF drivers are coaxially mounted for a smooth frequency response and a symmetrical projection pattern. This results in an attractive design and good acoustic features for quality speech and music reproduction.

Each loudspeaker is equipped with a line transformer that makes it possible to connect it to constant voltage sound systems at 70 V or 100 V. The transformer has taps, allowing a selection of power ratings.

The polypropylene LF cone and mylar HF dome provide stable operation in varying environmental conditions. They also provide higher reliability and longevity over similarly priced paper-coned products.

The steel firedome (backcan) is fitted with unique clamps that can significantly reduce its installation time. The grille assembly is firmly attached from behind the baffle. The driver/baffle assembly then easily installs in the premounted firedome with spring-loaded hardware. This results in a solid attachment method that also provides a cosmetically clean appearance. Five year warranty.

Applications include:

- Meeting Rooms
- Hotels
- Transportation Terminals
- Multizone Paging/Music Systems
- Healthcare Facilities
- Commercial Offices
- Conference Rooms
- Schools

# 3. INSTALLATION

The metal firedome provided with each loudspeaker offers quick installation into ceilings.



**WARNING:** Make sure that the loudspeaker is installed in a stable and secure way in order to avoid any conditions that may be dangerous for persons or structures:

- Check to make sure that the ceiling has the necessary mechanical characteristics to support the weight of the loudspeaker without the danger of it falling.
- Before suspending the loudspeaker, carefully check all the components to be used to make sure there is no damage, deformation, corrosion and/or missing or damaged parts that could reduce the safety of the installation.

## Installation precautions

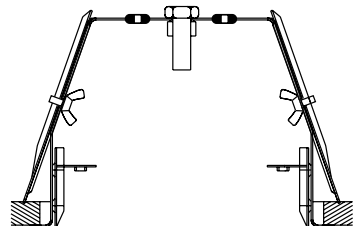
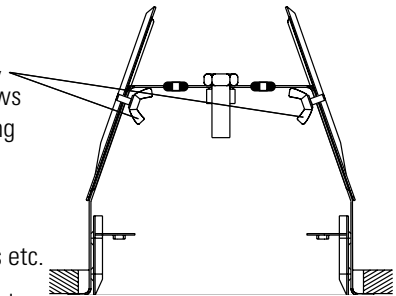
- Use speaker cables with an adequate cross-section (gauge). The greater the distance between the amplifier and loudspeaker, the larger the connection cable cross-section should be.
- To prevent inductive phenomena causing humming or distortion, the speaker cables should not be run together with electrical energy conductors, microphone cables, or line-level audio lines. Use speaker cables that have markings to distinguish the polarity, such as insulation or conductors of different colors.

## Installation procedure

1. Cut a hole in the ceiling, using all safety precautions to avoid cutting power lines, water lines etc. Use the following table as a guide:

Loudspeaker	Diameter
CIS50	160 mm
CIS65	200 mm
CIS80	230 mm

2. Take the firedome, loosen the two wing bolts, and slide the fixing plates upwards. This allows the firedome to be pushed up inside the ceiling hole. Before you do that, thread your audio speaker cable through one of the firedome grommets. The firedome comes with a large fixing bolt for securing in case of earthquakes etc.
3. When the firedome is securely pushed up inside the ceiling hole, slide the fixing plates down to grip the top surface of the ceiling, and tighten up the two wing bolts. This will hold the firedome in place.

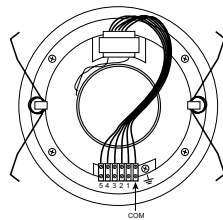
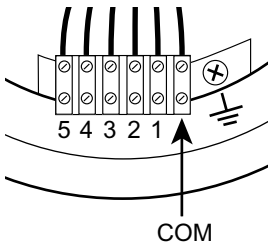
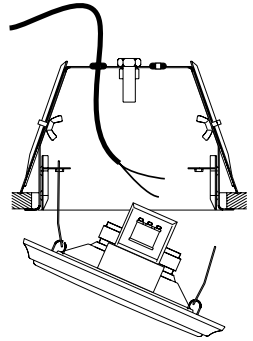


# 4. CONNECTIONS

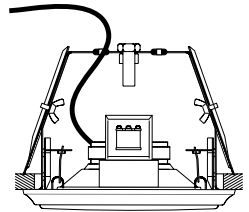


**WARNING:** To prevent the risk of electric shock, do not connect the loudspeaker with the amplifier switched on.

1. Offer up the Loudspeaker and attach the spring clips to one of the firedome side brackets.
2. Connect your amplifier output to the terminals on the loudspeaker. The negative amplifier output connects to the loudspeaker COM terminal, the positive amplifier output connects to one of the other loudspeaker terminals. Use the tables in the specification section to select the power rating for the voltage line you are using (70 V or 100 V). Use a small flat screwdriver to secure the connections.



3. When the connections are securely made, connect the other spring clip to the firedome, and press the loudspeaker upwards until it is flush with the ceiling.

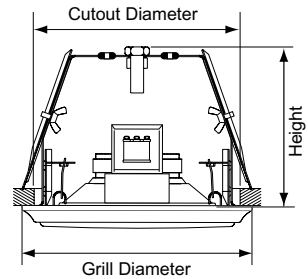


## Precautions

- Before using the loudspeaker, carefully check that all the connections have been made correctly to make sure there are no accidental short circuits that could cause electrical sparks.
- Check if your power amplifier's constant output voltage is 70 V or 100 V, and find the rated power output.
- The sum of the operating power values of all the loudspeakers connected to the audio line must not exceed 80 % of the amplifier's output power.
- Verify that the connections to all of your loudspeakers are made correctly "in phase." When different loudspeakers reproduce the same frequencies but with phase differences, there may be sound cancellation. Loudspeakers are often situated in adjacent positions and the sound waves interact with each other. If a loudspeaker is connected incorrectly; i.e., the polarity of the audio line conductors is inverted, the audio signals are transmitted with differences in phase and correct reproduction is therefore jeopardized. Most notably, the bass response may suffer.

# 5. SPECIFICATIONS

Model	CIS50	CIS65	CIS80
Rated Power	6 W	10 W	20 W
Driver	5.25" coaxial	6.5" coaxial	8" coaxial
SPL (1 W/m)	92 dB	89 dB	89 dB
Max SPL (4 W/m)	99 dB	99 dB	102 dB
Freq Range (-10 dB)	100 Hz-20 kHz	70 Hz-20 kHz	50 Hz-20 kHz
Dispersion (1 kHz/4 kHz)	130°/50°	120°/45°	120°/40°
Ceiling Cutout diam	6.3"/160 mm	7.87"/200 mm	9.06"/230 mm
Grill outer diameter	7.09"/180 mm	9.06"/230 mm	10.63"/270 mm
Height	4.86"/124 mm	4.86"/124 mm	4.86"/124 mm
Weight	2.87 lbs/1.3 kg	3.75 lbs/1.7 kg	5.73 lbs/2.6 kg

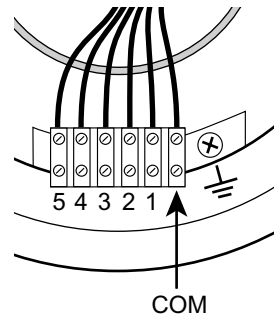


## Power Selector

CIS50	Terminal	70 V Power (W)	100 V Power (W)	Impedance
	1	3	6	1.67 kΩ
	2	1.5	3	3.33 kΩ
	3	0.75	1.5	6.67 kΩ
	4	0.375	0.75	13.33 kΩ

CIS65	Terminal	70 V Power (W)	100 V Power (W)	Impedance
	1	5	10	1 kΩ
	2	2.5	5	2 kΩ
	3	1.25	2.5	4 kΩ
	4	0.625	1.25	8 kΩ

CIS80	Terminal	70 V Power (W)	100 V Power (W)	Impedance
	1	20	Do not use	250 Ω
	2	10	20	500 Ω
	3	5	10	1 kΩ
	4	2.5	5	2 kΩ
	5	1.25	2.5	4 kΩ



## Disclaimer

EAW Commercial continually engages in research related to product improvement, new materials, and production methods. Design refinements are introduced into existing products without notice as a routine expression of that philosophy. For this reason, any current EAW Commercial product may differ in some respect from its published description, but will always equal or exceed the original design specifications unless otherwise stated.

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## 6. SERVICE INFORMATION

In the event that your CIS loudspeaker should require servicing, please follow these instructions:

1. Call EAW Commercial Tech Support at 1-888-337-7404, 7 am to 5 pm PST (Monday-Friday), to verify the problem and obtain a Return Authorization (RA) Number. Be sure to have the serial number of the unit when you call. You must have a Return Authorization Number in order to obtain warranty service at the factory or at an authorized service center. You can also email EAW Commercial Tech Support at: support@eawcommercial.com
2. Pack the unit in its original packaging. THIS IS VERY IMPORTANT. LOUD Technologies is not responsible for any damage that occurs during shipping due to non-conventional packaging. Original packaging helps to minimize the possibility of shipping damage.
3. Include a legible note stating your name, (no P.O. boxes), daytime phone number, Return Authorization Number, and a detailed description of the problem, including how we can duplicate it.
4. Write the Return Authorization Number in **BIG BOLD PRINT** on top of the box.
5. Tech Support will tell you where to ship the unit when you call for an RA Number. We suggest insurance for all forms of cartage.

## 7. WARRANTY

**Warranty:** LOUD Technologies Inc. requires its authorized EAW Commercial distributors abide by the following warranty terms for all EAW Commercial brand products (all dates are from the date of delivery from an Authorized EAW Commercial Distributor to the end user/installation site):

Loudspeakers – 5 years; Active Electronics – 5 years; Accessories – 2 years.

**What Is Covered:** Defects in workmanship and materials and against malfunctions. EAW Commercial distributors must remedy all such defects and malfunctions without charge for parts or labor if the warranty applies. Final determination of warranty coverage lies solely with each authorized EAW Commercial distributor.

**What Is Not Covered:** This warranty does not extend to damage or malfunctions resulting from, but not limited to, shipment, improper installation, misuse, neglect, abuse, normal wear, accident, or to any product on which the serial number has been modified or removed. Exterior defects in or damage to the exterior appearance are specifically excluded from this warranty. EAW Commercial distributors shall not be liable for incidental or consequential damages resulting from the use of EAW Commercial products. Repairs and/or modifications by other than an Authorized EAW Commercial Distributor automatically voids this warranty.



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