

**Acoustic**

**AUDIO**

**CINEMA SERIES**

**IN-WALL / IN CEILING  
SPEAKER**

**OWNER'S MANUAL**

CS-ic42/CS-ic43  
CS-ic52/CS-ic53  
CS-ic62/CS-ic63  
CS-ic82/CS-ic83  
CS-i42s/CS-i43s  
CS-i52s/CS-i53s  
CS-i62s/CS-i63s  
CS-i82s/CS-i83s  
CS-iw520/CS-iw530  
CS-iw620/CS-iw630  
CS-iw820/CS-iw830  
CS-iw26cc  
CS-iw8sub  
CS-iWIOsub

## **CONGRATULATIONS ON YOUR NEW PURCHASE!**

Thank you for choosing Acoustic Audio's Cinema Series line of home audio products. The greatest value in high-performance home entertainment, these high-quality products deliver everything from the softest whisper to the most intense, heart-stopping action with amazing clarity, definition and intensity. Special care has been taken into the manufacturing and testing of this product to ensure that it produces the highest quality sound for your home as well as bring you years of reliable service.

## **PLEASE READ THIS MANUAL COMPLETELY BEFORE INSTALLING THIS PRODUCT!**

It is important to completely understand the operation of this product to achieve optimum and reliable performance. Failure to do so can result in damage to the actual product and other audio electronics.

# Acoustic AUDIO

Cinema Series in-wall/in-ceiling speakers are the new standard for in-home entertainment. They deliver incredible Acoustic Audio sound to every room in your home without using any floor or shelf space! These are designed for super easy "out of the box, into your wall" installation. They feature a Integrated Wall-Lock Mounting System and Audiophile grade drivers and tweeters that deliver unprecedented detail and accuracy, realistic, low distortion sound, and surprisingly deep bass response.

- All Weather Design for Indoor/Outdoor Use
- Low Profile Baffle Housing Designed for Easy Installation
- Polypropylene Cone for Improved Motion and Higher Bass Response
- Butyl Rubber Surround for Increased Performance and Durability
- Progressive Spider for Greater Control and Higher Excursion Capabilities
- 13mm Mylar Soft-Dome or Piezo Tweeter for Detailed High Frequencies
- Poly-Mica Dome Midrange Driver (3-Way)
- Paintable Housing and Flush-Mount Speaker Grills to Match Any Home or Office Decor
- Spring Loaded Speaker Wire Terminals for Easy Connectivity
- Integrated Wall-Lock Mounting System with Cutout Templates Included

## 2-Way Design

Model	Power (Each)	Impedance	Frequency Response	Sensitivity	Frame Dimensions	Hole Cutout	Depth
CS-ic42	150W	8 Ohms	55Hz-20kHz	90dB	6.73"	5.43"	2.20"
CS-ic52	200W	8 Ohms	50Hz-20kHz	91dB	7.95"	6.65"	3.19"
CS-ic62	250W	8 Ohms	45Hz-20kHz	92dB	9.17"	7.87"	3.58"
CS-ic82	300W	8 Ohms	40Hz-20kHz	94dB	10.86"	9.49"	3.70"

## 3-Way Design

Model	Power (Each)	Impedance	Frequency Response	Sensitivity	Frame Dimensions	Hole Cutout	Depth
CS-ic43	200W	8 Ohms	55Hz-20kHz	91dB	6.73"	5.43"	2.20"
CS-ic53	250W	8 Ohms	50Hz-20kHz	92dB	7.95"	6.65"	3.19"
CS-ic63	300W	8 Ohms	45Hz-20kHz	93dB	9.17"	7.87"	3.58"
CS-ic83	350W	8 Ohms	40Hz-20kHz	95dB	10.86"	9.49"	3.70"

### 2-Way Design

Model	Power (Each)	Impedance	Frequency Response	Sensitivity	Frame Dimensions	Hole Cutout	Depth
CS-i42s	150W	8 Ohms	55Hz-20kHz	90dB	7.83"X7.83"	6.5"X6.5"	2.64"
CS-i52s	200W	8 Ohms	50Hz-20kHz	91dB	8.74"X8.74"	7.48"X7.48"	3.19"
CS-i62s	250W	8 Ohms	45Hz-20kHz	92dB	9.41"X9.41"	8.19"X8.19"	3.46"
CS-i82s	300W	8 Ohms	40Hz-20kHz	94dB	11.02"X11.02"	9.72"X9.72"	3.74"

### 3-Way Design

Model	Power (Each)	Impedance	Frequency Response	Sensitivity	Frame Dimensions	Hole Cutout	Depth
CS-i43s	200W	8 Ohms	55Hz-20kHz	91dB	7.83"X7.83"	6.5"X6.5"	2.64"
CS-i53s	250W	8 Ohms	50Hz-20kHz	92dB	8.74"X8.74"	7.48"X7.48"	3.19"
CS-i63s	300W	8 Ohms	45Hz-20kHz	93dB	9.41"X9.41"	8.19"X8.19"	3.46"
CS-i83s	350W	8 Ohms	40Hz-20kHz	95dB	11.02"X11.02"	9.72"X9.72"	3.74"

## Full Range Rectangle In-Wall/In-Ceiling Speakers

### 2-Way Design

Model	Power (Each)	Impedance	Frequency Response	Sensitivity	Frame Dimensions	Hole Cutout	Depth
CS-iw520	200W	8 Ohms	50Hz-20kHz	91dB	7.68"X11.14"	6.22"X9.84"	2.64"
CS-iw620	250W	8 Ohms	45Hz-20kHz	92dB	8.66"X12.01"	7.28"X10.79"	2.68"
CS-iw820	300W	8 Ohms	40Hz-20kHz	94dB	10.04"X14.17"	8.66"X12.76"	3.35"

### 3-Way Design

Model	Power (Each)	Impedance	Frequency Response	Sensitivity	Frame Dimensions	Hole Cutout	Depth
CS-iw530	250W	8 Ohms	50Hz-20kHz	92dB	7.68"X11.14"	6.22"X9.84"	2.64"
CS-iw630	300W	8 Ohms	45Hz-20kHz	93dB	8.66"X12.01"	7.28"X10.79"	2.68"
CS-iw830	350W	8 Ohms	40Hz-20kHz	95dB	10.04"X14.17"	8.66"X12.76"	3.35"

# Acoustic AUDIO

## Full Range Center Channel In-Wall/In-Ceiling Speaker

Model	Power	Impedance	Frequency Response	Sensitivity	Frame Dimensions	Hole Cutout	Depth
CS-iw26cc	250W	8 Ohms	40Hz-20kHz	93dB	20.43"X8.66"	19.13"X7.36"	3.03"

## Full Range In-Wall/In-Ceiling Subwoofer

Model	Power	Impedance	Frequency Response	Sensitivity	Frame Dimensions	Hole Cutout	Depth
CS-iw8sub	250W	8 Ohms	35Hz-200Hz	92dB	11.02"X11.02"	9.72"X9.72"	3.74"
CS-iw10sub	300W	8 Ohms	32Hz-200Hz	93dB	11.93"X11.93"	10.63"X10.63"	4.88"

### CHOOSING THE INSTALLATION LOCATION FOR YOUR LOUDSPEAKERS

The in-ceiling loudspeakers are designed to be installed in any standard ceiling. If you are unsure of the mounting location or correct installation techniques or type of speaker wiring to use, consult a professional audio specialist or a building contractor for assistance.

The goal is to get the best stereo effect possible from the loudspeakers. To achieve this we recommend placing both loudspeakers at equal distance from the listener and 6-10 ft apart from each other. Avoid installing them near corners or reflective surfaces to prevent a "boomy" or diffracted sound.

When determining the location for the loudspeaker cutout, keep in mind that mounting arms will extend 3/4 inch beyond cutout. Make sure that you do not place the edge of the cutout directly next to a ceiling joist. Locate the joists using a stud sensor or by hand knocking.

#### **Important!**

Before you cut into any wall, inspect the location of where the speakers are to be installed and be very careful not to drill through existing wires, pipes, or structure. If you feel any extra resistance as you are drilling, please stop.

### INSTALLATION

When running loudspeaker wires inside walls or ceilings, use special jacketed cable to protect the wire and for fire prevention.

1. Once you have determined the mounting installation location for the speakers, drill the cutout hole for the speakers.
2. At each speaker location, route the wire to the input connectors, then separate the loudspeaker wire so that at least 2 inches of each conductor are free. Strip away 1/4 inch of insulation from each individual loudspeaker wire.
3. Press down each spring-loaded connector one at a time, insert the appropriate conductor and then release the connector. Check to be sure that the conductor is making contact with stripped wire and not the wire jacket. Gently tug on the loudspeaker wire to make sure it is held in place. If not, repeat this procedure.

**Observe correct polarity: Positive(+) goes to the red post and negative(-) goes to the black post.**

4. Insert the loudspeaker into the hole by carefully holding it with both hands and angling it slowly into the hole until the frame is flush with the ceiling. Holding it in place carefully with one hand, (do not push against the woofer or tweeter) use a cordless drill to begin mounting loudspeaker.

5. Tighten the four screws. Use low torque and low speed or you may damage the loudspeaker. This should pull the frame and mounting together (sandwiching the drywall) so that the frame is absolutely flush with the wall surface. There should be no gaps between the wall and the frame.

**Do not over tighten the screws! Over tightening them may make the grille difficult to install**

6. Install the grille by simply pushing the grille evenly into the hole until it snaps in place.
7. Connect the other end of each loudspeaker wire to the receiver (or amplifier) carefully observing polarity.
8. Turn on the receiver or amplifier and test all loudspeakers in the system.

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