

EXCITE IC5/IC6/IC8

Excite® 2-Way In-Ceiling Speakers

Excite® speakers by Crestron® offer excellent sound quality and flexible installation in a range of popular sizes and configurations. In addition to multiroom audio, Excite speakers provide an appropriate and affordable choice for multimedia presentation and home theater applications.

Rigidly constructed, Excite speakers are designed to enable a nearly flush installation when mounted in a typical drywall surface. The white textured finish blends cleanly into any neutral-colored ceiling, and may be painted for an inconspicuous appearance against any colored surface. For indoor use only.



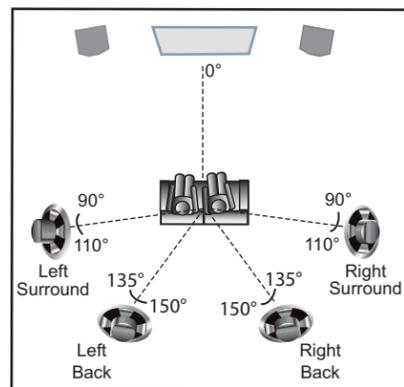
1 Installation

Determine Placement In Room

Speaker placement depends on the size and primary purpose of the room.

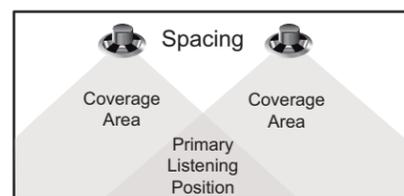
For home theater applications, the Excite in-ceiling speaker line is an excellent choice for the surround and back channels.

As indicated in the figure to the right, suggested placement is at the angles from the 0° primary viewing/listening angle.



For applications such as classrooms, conference rooms, and multiroom audio distribution installs, other considerations in speaker placement are ceiling height, and whether listeners are more likely to be seated or standing.

The table below and the diagram to the right help to show proper speaker spacing for optimum sound coverage.



Ceiling Height / Speaker Spacing

CEILING HEIGHT	SPEAKER SPACING	
	LISTENER SEATED	LISTENER STANDING
8.0 ft (2.5 m)	9.5 ft (2.9 m)	5.7 ft (1.7 m)
10.0 ft (3.1 m)	13.7 ft (4.2 m)	9.7 ft (3.0 m)
12.0 ft (3.7 m)	17.5 ft (5.3 m)	13.7 ft (4.2 m)
14.0 ft (4.3 m)	21.5 ft (6.6 m)	17.7 ft (5.4 m)

Prepare Mounting Holes

Before finalizing the speaker locations, check to make sure there are no fixtures, pipes, air ducts, joists, or other possible obstructions. Use a good quality stud finder to locate joists.

If there is no access to the area above the ceiling, and it is uncertain that there are no obstructions, carefully drill a small hole just through the ceiling near the middle of the proposed speaker location(s) and use one of the commercially available inspection devices designed for this purpose, or do one of the following:

- Use a piece of stiff wire, bent into an “L” shape, with one end long enough to explore an area equal to the size of the speaker with the toggle clamps extended. Insert the wire into the hole, make sure it rotates freely in a complete circle and that there is sufficient depth, or
- Use a drywall saw to cut a small hole at a 45° angle toward the inside of the hole. An angle cut simplifies repair since the removed piece can be reinserted to help plug the hole.



If there are no obstructions, use the supplied template to trace outlines of the mounting holes on the ceiling. Cut the final mounting holes at a 90° angle to the ceiling.



Paint the Speakers/Grilles

Speaker rim and/or grille painting should be done prior to mounting.

1. Leave the painting plug installed in the front of the speaker.
2. Carefully remove the material on the underside of the grille and set it aside for reinstallation. It may be necessary to use a knife or other sharp instrument to free an edge of the material so it can be peeled away. Use care to avoid cutting the material.
3. Dry brush or lightly spray the surface to be painted. Use care to avoid clogging the holes in the grille.

Install Cables

Run the cables from the audio source to each speaker location following all appropriate local codes. Strip the ends of the speaker cables 1/4” to 1/2” (6 mm to 12 mm) and twist the exposed strands.

Mount/Remove Speakers

The in-ceiling speakers include four toggle clamps and four stabilizing spring clips that simplify the mounting process. If grilles are mounted on the speakers, remove them before proceeding. (Refer to “Install/Remove Grilles” below.)

1. Connect the speaker cable to the spring terminals by pressing the top of the terminals down and inserting the exposed strands into the hole. Make sure that left and right channels are connected to the left and right speakers, respectively, and that the + wires go to the + (red coded) terminals, and the – wires go to the – (black coded) terminals.
2. With the toggle clamps turned inward, insert the speaker into the opening; the stabilizing spring clips help to hold the speaker in place. As the four screws on the front of the speaker are tightened, the toggle clamps first rotate into clamping position (refer to the figure to the right) and then begin holding the speaker to the ceiling. Tighten the screws until the speaker is secure; do not over tighten.
3. Speaker removal is accomplished by reversing the procedures given in steps 1 and 2 above.
 - a. Loosen the front screws to unclamp the speaker. Continue to loosen the screws until the toggle clamps rotate inward.
 - b. When the speaker is loose, carefully reach up into the opening and press the spring clips inward so the speaker can be removed from the opening.
 - c. Disconnect the wires from the terminals.

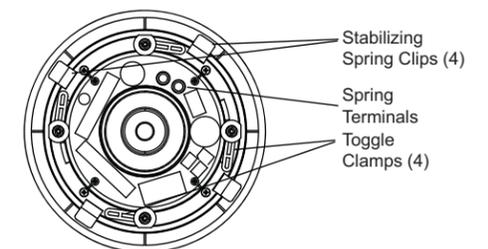
Install/Remove Grilles

To install the grille, place it in position and carefully press until the surface of the grille is flush with the surface of the outer flange.

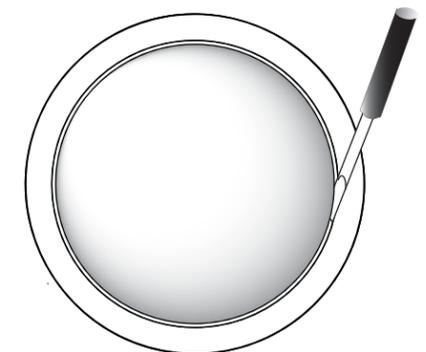
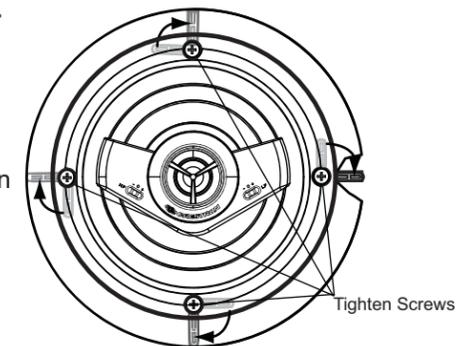
To remove the grille, insert a slim, flat-blade screwdriver between the grille and the outer flange, and carefully pry the grille up and out.

It may be necessary to press one or more of the mounting screws and toggle clamps toward the front to push the grille free of the flange.

Rear View (Typical)



Front View (Typical)



EXCITE_IC5/IC6/IC8

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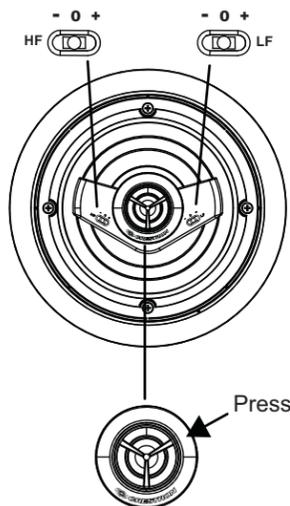
2 Adjustments Frequency Settings

Adjusting the high and low frequency range switch settings (refer to illustration below) is largely a matter of personal preference.

The settings produce the following results.

- : Reduces the selected range loudness
- 0: Loudness remains neutral
- +: Increases the selected range loudness

The recommended setting for the low frequency range (LF) switch is - to reduce bass when the speaker is in a corner, + to increase bass when the speaker is not near a wall or ceiling corner, and 0 (neutral) when the speaker is near one wall or ceiling corner.



Aiming the Tweeter

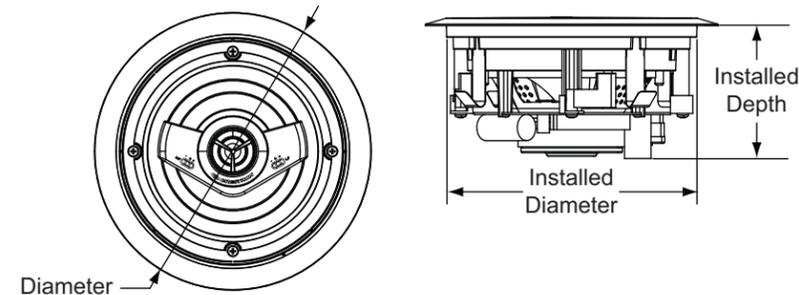
The tweeter can be aimed toward the primary listening position by gently pressing on the plastic ring around the tweeter dome. (Refer to the illustration above.)

3 Specifications

EXCITE_IC5, IC6, IC8 Specifications

SPECIFICATION	EXCITE_IC5	EXCITE_IC6	EXCITE_IC8
Woofer	1	1	1
Size	5.25 in (134 mm)	6.50 in (165 mm)	8.00 in (203 mm)
Material	Polypropylene	Polypropylene	Polypropylene
Tweeter	1	1	1
Size	0.79 in (20 mm)	0.79 in (20 mm)	0.98 in (25 mm)
Material	Treated cloth	Treated cloth	Treated cloth
Surround Material	Rubber	Rubber	Rubber
Minimum Performance			
Frequency Response (-3 dB)	60 Hz - 20 kHz	55 Hz - 20 kHz	50 Hz - 20 kHz
Power Handling (Program)	60 W	75 W	100 W
Sensitivity (1W @ 1m)	87 dB	89 dB	89 dB
Electrical			
Bass Switch	Yes	Yes	Yes
Tweeter Switch	Yes	Yes	Yes
Impedance / Voltage	8 Ω	8 Ω	8 Ω
Crossover Type	2nd Order L-R	2nd Order L-R	2nd Order L-R
Terminations	Spring Terminals	Spring Terminals	Spring Terminals
Mechanical			
Baffle Material	ABS	ABS	ABS
Mounting System	Toggle Clamps	Toggle Clamps	Toggle Clamps
Mounting Feature	Suspension Hangers	Suspension Hangers	Suspension Hangers
Grill Material	Aluminum	Aluminum	Aluminum
Swivel Tweeter	Yes	Yes	Yes
Paint Mask	Yes X2	Yes X2	Yes X2
Basket Material	Steel	Steel	Steel
Maximum Depth	4.26 in (108 mm)	4.65 in (118 mm)	4.93 in (125 mm)
Available Colors	White	White	White
Dimensions			
Diameter	8.72 in (222 mm)	9.66 in (246 mm)	12.15 in (308 mm)
Installed Diameter	7.35 in (187 mm)	8.29 in (211 mm)	10.74 in (273 mm)
Installed Depth	3.99 in (101 mm)	4.38 in (111 mm)	4.65 in (118 mm)
Weight	3.5 lb (1.6 kg)	4.1 lb (1.8 kg)	5.2 lb (2.3 kg)
Environmental			
Temperature	41° to 104° F (5° to 40° C)		
Humidity	10 to 90% RH (non-condensing, indoor use only)		

Front and Side View (Typical)



4 Problem Solving Troubleshooting

The following table provides corrective action for possible trouble situations. If further assistance is required, please contact a Crestron customer service representative.

TROUBLE	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
No sound or intermittent sound from speakers.	Cable connection error.	Verify cable connections between amplifier and speakers.
	Amplifier not receiving input signal or amplifier malfunction.	Verify amplifier is functioning correctly, that it is receiving an input signal and that correct input source is selected.
Constant noise such as buzz, hum, or hiss from speakers.	Faulty device in system.	Verify all devices in system are functioning properly.
	System grounding fault.	Verify system grounding.
Poor low frequency output.	Incorrect polarity connection at speaker or amplifier.	Verify speaker connection polarity (i.e. + on amplifier to + on speaker).

Further Inquiries

To locate specific information or resolve questions after reviewing this guide, contact Crestron's True Blue Support at 1-888-CRESTRON [1-888-273-7876] or, for assistance within a particular geographic region, refer to the listing of Crestron worldwide offices at www.crestron.com/offices.

To post a question about Crestron products, log onto Crestron's Online Help at www.crestron.com/onlinehelp. First-time users must establish a user account to fully benefit from all available features.

Future Updates

As Crestron improves functions, adds new features, and extends the capabilities of the EXCITE_IC5/IC6/IC8 speakers, additional information may be made available as manual updates. These updates are solely electronic and serve as intermediary supplements prior to the release of a complete technical documentation revision.

Check the Crestron Web site periodically for manual update availability and its relevance. Updates are identified as an "Addendum" in the Download column.

The specific patents that cover Crestron products are listed at patents.crestron.com.

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