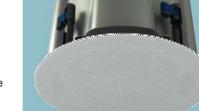
SAROS ICE4T/ICE6T/ICE8T

Saros® Express 2-Way In-Ceiling Speakers

Saros® Express speakers by Crestron® deliver easy installation and excellent performance in a range of popular sizes for cost-sensitive commercial applications. Ideal for use in background music, paging, and sound reinforcement systems, Saros Express speakers are engineered to achieve full, even coverage and clear sound quality at a very affordable cost. Their zero-bezel frameless grille achieves an unobtrusive and contemporary appearance. Installing the grille requires no hardware or tools, utilizing powerful magnets to hold it in place. A safety tether is included to prevent the grille from ever falling from the ceiling.



Saros Express speakers are available in white or black and can be painted to blend with the ceiling surface.



Installation

Prepare Mounting Hole

Before finalizing the speaker location, check to make sure there are no fixtures, pipes, air ducts, joists, or other possible obstructions. If applicable, use a good quality stud finder to locate joists. If there are no obstructions, use the supplied template to trace an outline of the mounting hole.

For drop tile ceilings, remove the ceiling tile and place on a flat surface to trace the mounting hole. For drywall or standard construction ceilings, use the template to trace the mounting hole directly on the ceiling.

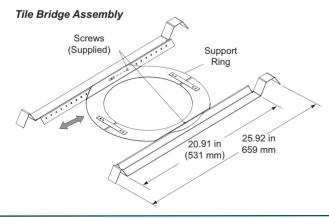
Install Cable

Run the cable from the audio source to the speaker location, observing all appropriate local codes. Strip the ends of the speaker cables approximately 1/8" to 3/16" (~3 mm to ~5 mm) and twist the strands.

Install Tile Bridge

The included tile bridge components provide proper support when the speaker is installed in a typical drop tile ceiling. Refer to the illustration below.

- Based on the location of the mounting hole determined in "Prepare Mounting Hole" above, use the two supplied screws to attach the support ring to the rails so that when installed, the ring is aligned with the mounting hole and the rails rest on the ceiling grid frame.
- The support ring position on the rails is adjustable to enable off-center speaker positioning. The tile bridge assembly can be folded to fit through the speaker cutout in blind-mount situations.



Install/Remove Grille

The zero-bezel frameless grille is held in place by powerful magnets. A safety tether is included to prevent any possibility of the grille falling from the ceiling. With the tether attached, place the grille in position on the speaker. To remove the grille, grip the edges and pull away from the speaker.

Paint the Speaker Grille

Speaker grille painting should be done prior to mounting.

- 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 or tearing the material.
- 2. Dry brush or lightly spray the surface to be painted. Use care to avoid clogging the holes in the grille.
- 3. Once the paint is dry, reinstall the material to the underside.

Mount/Remove Speaker

The in-ceiling speaker includes four toggle clamps that simplify the mounting process. If the grille is mounted on the speaker, remove it before proceeding. (Refer to "Install/Remove Grille" above.)

- Referring to the illustrations to the right, remove the screw securing the rear cover panel, and lift the cover panel off to expose the supplied terminal block.
- Route the speaker cable through the cover cable clamp and connect the wires to the terminal block, using the outer IN terminals: red to + and black to -. Use the inner + and - THRU terminals to connect a pass-through (parallel) speaker.
- 3. Allow some slack in the speaker cable(s) and position the cover panel on the back, making certain it engages the mounting clips. Secure the cover panel using the screw removed in step 1 and tighten the cable clamp to secure the cable(s). Do not overtighten. Use a safety tether attached to the rear enclosure to prevent the speaker from accidentally falling.
- The toggle clamps offer two positions to accommodate both standard and extra thick surfaces up to 2.4 inches (61 mm). For extra thick tiles, reset the toggle clamps to the upper position before continuing.
- a. With the toggle clamps turned inward, insert the speaker into the opening.
- b. Hold the speaker against the ceiling and begin tightening the four screws on the front of the speaker. The toggle clamps first rotate into clamping position (as indicated in the front view illustration to the right) and then begin holding the speaker to the ceiling.

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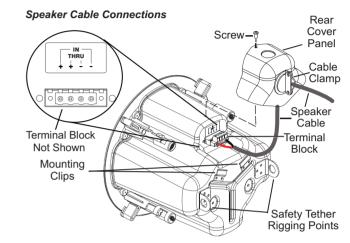
- c. Tighten the screws until the speaker is secure. Do not over tighten.
- 5. Speaker removal is accomplished by reversing steps 1 through 4 above.

Set the Transformer Tap Selector Switch

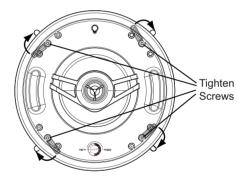
The speakers are equipped with a 70/100 V matching transformer for distributed audio systems. The transformer tap selector switch on the front panel is used to set the speaker power level. Use a flat blade screwdriver to adjust the switch.

- For SAROS_ICE4T and SAROS_ICE6T 70 V systems, use the left side settings and select from 3.75, 7.5, 15, or 30 watts.
- 2. For SAROS_ICE4T and SAROS_ICE6T 100 V systems, use the right side settings and select from **7.5**, **15**, or **30** watts. The **X** position should not be used.
- For SAROS_ICE8T 70 V systems, use the left side settings and select from 7.5, 15, 30, or 60 watts.
- For SAROS_ICE8T 100 V systems, use the right side settings and select from 15, 30, or 60 watts. The X position should not be used.

The switch may also be set to 8Ω operation, bypassing the transformer completely. This setting should be used only for $8~\Omega$ audio systems.









For SAROS_ICE4T, and SAROS_ICE6T







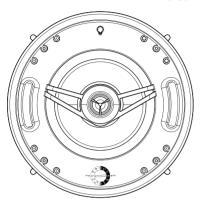
SAROS ICE4T/ICE6T/ICE8T

Saros® Express 2-Way In-Ceiling Speakers

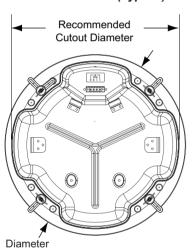
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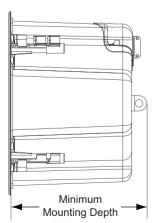
Physical Views

Front View - Grille Removed (Typical)



Rear and Side View (Typical)





3

Specifications

SAROS_ICE4T/ICE6T/ICE8T

SPECIFICATION	SAROS_ICE4T	SAROS_ICE6T	SAROS_ICE8T
Woofer	4.0 in (102 mm) treated paper with ring mode decoupled cloth surround and steel basket	6.5 in (165 mm) treated paper with ring mode decoupled cloth surround and steel basket	8.0 in (203 mm) treated paper with ring mode decoupled cloth surround and steel basket
Tweeter	0.79 in (20 mm) treated cloth dome, horn-loaded	0.98 in (25 mm) treated cloth dome, horn-loaded	0.98 in (25 mm) treated cloth dome, horn-loaded
Crossover Frequency	2.0 kHz	2.5 kHz	2.5 kHz
Impedance	8 Ω nominal with transformer set to 8 Ω	8 Ω nominal with transformer set to 8 Ω	8 Ω nominal with transformer set to 8 Ω
Transformer Taps	3.75, 7.5, 15, 30 watts at 70 V; 7.5, 15, 30 watts at 100 V	3.75, 7.5, 15, 30 watts at 70 V; 7.5, 15, 30 watts at 100 V	7.5, 15, 30, 60 watts at 70 V; 15, 30, 60 watts at 100 V
Frequency Response	85 Hz to 20 kHz (±3 dB)	75 Hz to 20 kHz (±3 dB)	70 Hz to 20 kHz (±3 dB)
Frequency Range	75 Hz to 20 kHz (-10 dB)	60 Hz to 20 kHz (-10 dB)	55 Hz to 20 kHz (-10 dB)
Power Handling	40 watts program, (8 Ω)	60 watts program (8 Ω)	75 watts program, (8 Ω)
Sensitivity	89 dB @ (W/m)	89 dB @ (W/m)	89 dB @ (W/m)
Coverage	95° conical (nominal)	95° conical (nominal)	95° conical (nominal)
Connections			
Input	(1) 4-pin 5 mm detachable terminal block with screw-down flanges; Speaker input with parallel pass-through; Maximum Wire Size: 12 AWG		
Controls	Transformer Tap $$ (1) Recessed, 5-position, screwdriver adjustable, rotary switch on baffle; Used to select 70/100 V tap settings or 8Ω (bypass)		
Environmental			
Temperature	-2° to 120° F (-19° to 49° C)		
Humidity	5% to 95% RH (non-condensing)		
Construction Enclosure	Zinc-plated steel, plenum-rated, 1/2 in or 3/4 in conduit knockout top and side, 1 cable clamp included		
Baffle	ABS UL94V-0 plastic		
Grille	Steel with textured finish, paintable, magnetically-held zero-bezel frameless, safety tether		
Mounting	Flush ceiling mount using 4 integral 2-step toggle clamps, 2.4 in (61 mm) maximum surface thickness, tile bridge included; (2) Rigging points for safety tether (SPKA-ST-15 sold separately)		
Dimensions			
Diameter	8.53 in (217 mm) not including toggles	10.57 in (269 mm) not including toggles	12.07 in (307 mm) not including toggles
Depth	7.13 in (181 mm)	8.31 in (211 mm)	9.10 in (231 mm)
Recommended cutout diameter	7.70 in (195 mm)	9.70 in (245 mm)	11.20 in (285 mm)
Minimum mounting depth	6.90 in (176 mm)	8.10 in (206 mm)	8.90 in (226 mm)
Weight	7.0 lb (3.2 kg)	10.0 lb (4.5 kg)	12.2 lb (5.7 kg)



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	DOSSIDI E CALISE(S)	CORRECTIVE ACTION
IKUUBLE	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
No sound or intermittent sound is coming from the speakers.	There is a cable connection error.	Verify the cable connections between the amplifier and speakers.
	The amplifier is not receiving an input signal or there is a malfunction.	Verify that the amplifier is functioning correctly, that it is receiving an input signal, and that the correct input source is selected.
Constant noise such as buzz, hum, or hiss is coming from the speakers.	There is a faulty device in the system.	Verify that all system devices are functioning properly.
	There is a system grounding fault.	Verify that system grounding is correct.
Low frequency output is poor.	There is an incorrect polarity connection at the speaker or amplifier.	Verify the speaker connection polarity (+ 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 SAROS_ICE4T/ICE6T/ICE8T, 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 website 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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