

SD4 SUPERDISPERSION CEILING SPEAKER ARRAY



The Pure Resonance Audio SD4 SuperDispersion® omnidirectional drop tile ceiling speaker array takes speaker performance to a new level by providing 360° of powerful hemispheric audio coverage. A single SD4 speaker provides 30' x 30' of audio coverage depending on the application. Its high-performance sound and operational versatility make it an ideal solution for music, announcements, and paging in classrooms, churches, retail stores, restaurants, schools, universities, government buildings, and military facilities. Each SD4 array can replace multiple conventional ceiling mounted speakers, simplifying and reducing installation time and cost while optimizing performance. The SD4 is extremely quick and easy to install - simply remove one ceiling tile, drop the speaker into any standard 2x2 or 2x4 drop-ceiling grid, attach your wire and safety cables, and you're done in just minutes.



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GALLERY IMAGES



OPIS

POWERFUL FULL BODIED MUSIC REPRODUCTION

**SD4 SUPERDISPERSION OMNIDIRECTIONAL DROP TILE CEILING SPEAKER
ARRAY WITH 360° OF POWERFUL AUDIO COVERAGE IN JUST ONE
SPEAKER**

DROP INTO ANY 2X2 CEILING

For Amazing 360° of Hemispheric Sound

POWERFUL & VERSATILE

High-performance sound and operational versatility make it an ideal solution for music, announcements, and paging in hotels, restaurants, retail stores, gyms, cafeterias, churches, and many more.

COST-SAVING SOLUTION

One SD4 replaces multiple traditional speakers, minimizing product and installation costs.

QUICK & EASY TO INSTALL

Simply remove one ceiling tile, drop the SD4 into any standard drop-ceiling grid, and your speaker will be installed in just minutes.

360° X 180° AUDIO COVERAGE

Designed with patented omnidirectional speaker technology, the SD4 creates a 360° by 180° coverage pattern by employing an array of drivers working in perfect unison.

RELIABLE PERFORMANCE

The SD4 is one of the most reliable speakers in the audio industry and is built to meet the challenging demands of commercial audio environments.

FLEXIBLE INPUTS

Selectable 8 Ohm or 70 Volt inputs are compatible with almost any commercial, professional, or consumer audio power amplifier.

The Innovative SD4 SuperDispersion® Ceiling Speaker

After many years of experience and unparalleled success in the 2x2 ceiling speaker marketplace installing thousands of commercial ceiling speaker sound systems, we took that knowledge and designed the ultimate ceiling speaker array technology. The SD4 SuperDispersion® omnidirectional drop ceiling speaker array takes ceiling speaker performance to a new level. For 15 years, audio professionals, contractors, and system integrators worldwide have chosen the SuperDispersion® 2x2 ceiling tile speakers for their powerful sound, high performance, and distinctive audio needs.

The SD4 fits into standard 2'x2' or 2'x4' ceiling tile grids, providing an amazing 360 degrees of hemispheric sound. Each SD4 array can replace multiple conventional commercial ceiling speakers saving money by simplifying and reducing installation time and cost while optimizing performance. Its competitive price point and cutting-edge technology make it an excellent value to both end-users and contractors.

Technology Behind The Speaker Array

Originally designed in 1990, patented and introduced to the market in 1992, this omnidirectional speaker technology is based on a truncated pyramid with an array of drivers working in unison to create a 360° by 180° coverage pattern. This array of four drivers gives the SD4 a significant design advantage over conventional ceiling speakers that produce a limited or conical (flashlight-light) shaped coverage pattern. Conical patterns can result in coverage voids or empty spots in between speakers. SD4's pyramid design produces

a spherical-envelope pattern that greatly reduces and even eliminates coverage voids between speakers. Depending on the critical listening demands of your space, one SD4 speaker provides 30' x 30' of audio coverage.

Speaker Array

The 6.5" drivers used in the SD4 are the ideal driver size for most voice and music applications because it produces a clean dynamic sound for music and is also excellent for announcements and paging. Four 6.5" matched aluminum coaxial speakers are employed by the SD4 and are designed with robust aluminum-woofers, titanium dome tweeters and butyl rubber surrounds. They are powerful, stable, and extremely resistant to environmental deterioration from moisture, insect damage, rotting, and premature aging.

Enclosure

The speaker enclosure has bass-reflex ports that act as a mechanical low-pass filter which prevents the drivers from reaching very low frequencies and distorting the audio. This results in increased power handling, improved low-frequency output, additional driver stability, lower distortion, and improved bass response. Made from super strong, fire-resistant ABS, the SD4 housing has built-in wave-guides that improve coverage and acoustic performance. The low-profile plenum backbox is acoustically optimized and is only 2.8 inches deep, so it doesn't require much space above the drop ceiling.

Versatile 70 Volt Ceiling Speaker Solution

The innovative SD4 is equipped to meet the demands of powerful foreground or background music, public address (PA) announcements, and paging for speaker systems. From the smallest spaces to the largest commercial audio systems, the SD4 delivers high-performance sound and operational versatility. It features a 70 volt transformer with selectable 8 ohm bypass and 4, 8, 16, 32, and 64 watt tap settings that are compatible with most commercial or professional sound systems. This drop ceiling tile speaker system is the go-to speaker for cafeterias and small sanctuaries and an ideal solution for classrooms, churches, retail stores, restaurants, schools, universities, government and military buildings, and fitness facilities.

Quick & Easy Installation

Even with its powerful performance and reliable heavy-duty housing, the SD4 drop ceiling speaker is much quicker and economical to install than traditional ceiling speakers. Simply remove one ceiling tile, drop the SD4 into any standard drop-ceiling grid, and attach your speaker wire. Secure the speaker from the four back suspension points using the provided carabiners and braided steel safety cable to the desired structurally adequate ceiling points (consult your architect or engineer). Your sound system will be set up and operational quicker than ever before saving your most important currency, time.

Reliable Speaker Performance In Demanding Spaces

With tens of thousands sold and installed in a wide variety of applications, operating 24/7, 365 days a year, the SD4 has proven to be one of the most reliable speakers in the audio industry. This robust ceiling speaker is built to meet the challenging needs and demands of commercial audio environments.

SPECIFICATIONS

Power Handling: 160W RMS

Frequency Response: 45 Hz - 20 kHz

Sensitivity: 92dB (half space)

Impedance: 8 Ohms with 70V transformer (Built-in)

Woofers: 6.5" Aluminum

70 Volt Transformer Taps: 4W, 8W, 16W, 32W, 64W @ 70V; 8 Ohm Bypass

Dispersion: 360° by 180°

Driver Complement: Array of four full-range 6.5" drivers

Backbox Depth: 2.8" (71.12 mm)



Dimensions: 23.8" (603 mm) x 23.8" (603 mm) x 5.8" (146 mm)

Net Weight: 25 lbs (11.34 kg)

Shipping Dimensions: 28" (711 mm) x 28" (711 mm) x 9.3" (235 mm)

Shipping Weight: 32 lbs (14.5 kg)