



STRING SERIES ST 43

Compact Design, Massive Impact: Loudspeakers that Deliver

The design of String ST 43 is for applications to project vocal frequencies of the most subtle sounds throughout the venue. With a narrow vertical dispersion of 20 degrees, it is ideal for use in reverberant venues. It features a 4 x 3" (77 mm) driver in a rigid, uniquely styled extruded aluminum enclosure with a dedicated Omni-directional mounting bracket. It has no parallel walls that help eliminate all cabinet resonances.

Its wide horizontal and narrow vertical coverage helps reduce reflections in reverberant spaces. It is best used in churches or classrooms or any application with poor acoustics.

The ST 43 delivers consistent audience coverage

with excellent accuracy and projection. The curved shape of the enclosure is weather-resistant and allows it to be surface-mounted close to walls or installed on ceilings with its Omni-directional bracket, maintaining the dispersion pattern at all frequencies.

The visually distinct enclosure can only be used in a vertical orientation. It is available in both black and white.

The ST 43 can be employed as a stand-alone satellite speaker or combined with sub-woofers like the CR 10s or CR 210s.

KEY FEATURES

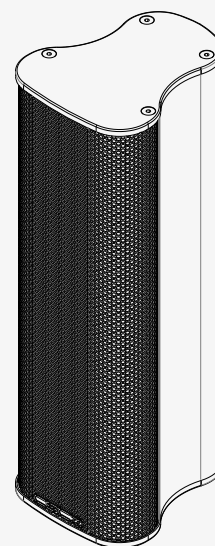
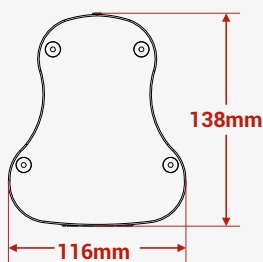
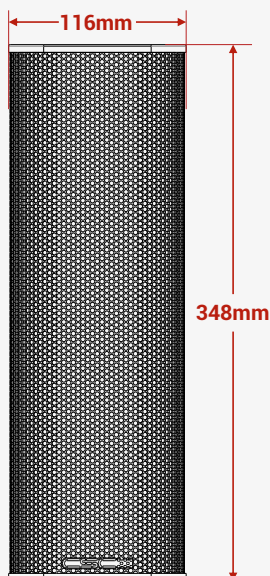
- Compact, high-performance
- Can be used as a stand-alone cabinet
- High power - maximum SPL 116 dB nominal, 122 dB continuous (single unit)
- Fast integral clamp
- Easy to install with minimal wiring
- Can be retrofitted into existing venues
- Can be used in rooms with long reverberation time
- Available in black and white

SYSTEM APPLICATIONS

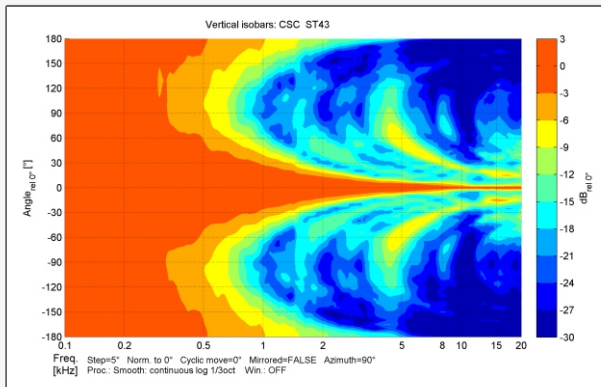
- Museums and A/V spaces
- Convention centers
- Retail outlets
- Airports/ Railway stations
- Recreation centers
- Gyms
- Railway stations
- small churches and class rooms

MODEL NO	ST 43
Type	Column speaker
Frequency Response (1)	150 Hz-16 kHz \pm 3 dB
Drivers	LF: 4 x3" (77 mm) neo driver
Recommended Amplifier Upto	160 watt
Sensitivity (1 W / 1 m)	97 dB
Maximum SPL (9)	116 dB continuous, 122 dB Max
Nominal Impedance	8 ohms
Dispersion	90° x 20°
Crossover	HPF 175 Hz
Enclosure	Extruded Aluminium
Finish	Powder coated
Protective Grill	Perforated steel
Connectors	2 x Phoenix connectors
Pin Connections	Input: \pm 1, Link through: \pm 2
Standard Colours	Black / White
Fittings	Rear mounting
Horn	NA
Nominal/ AES Power	80 watts
Maximum/ Continuous/ Program Power	160 watts
Peak Power	320 watts
Accessories	Clamp
Dimensions - Product (in mm)	(W) 116 x (H) 348 x (D) 138
Dimensions - Including packing (pair) (in mm)	(W) 290 x (H) 385 x (D) 192
Net Weight (kgs)	3
Shipping Weight (kgs)	8 (Shipped in pairs)

Mid highs measured on-axis in full space @ one watt/1-meter using band-limited pink noise in the en-deavour to continuously improve the product with design refinements introduced into existing products. Any current CSC product may differ in some respect from its published description. However, this will always equal or exceed the original design specifications. Every CSC Product is built to the highest standards and tested to ensure that it meets the performance criteria specified.

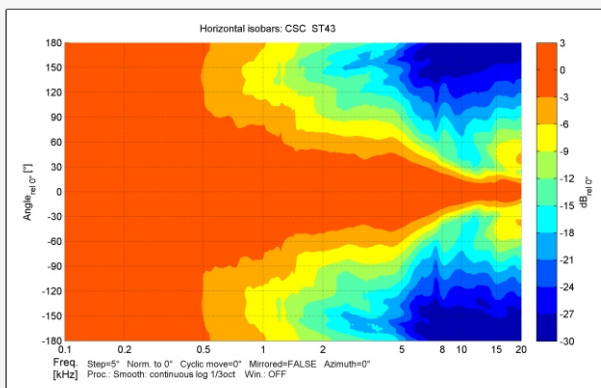


Vertical Polar Coverage (-6 dB)



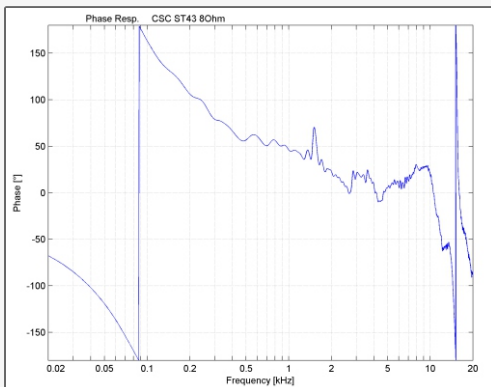
ST43's cabinet design for extremely narrow vertical dispersion. It offers a 20-degree vertical dispersion up to 6k .

Horizontal Polar Coverage (-6 dB)



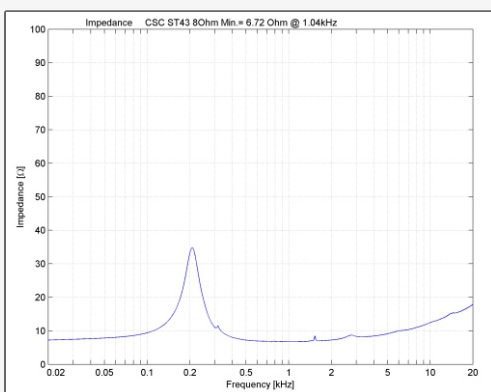
100° horizontal coverage ensures expansive, even audio across a wide room footprint.

Phase Response



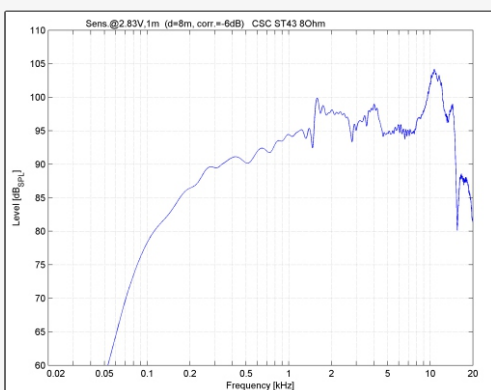
Engineered for minimal phase shift across the spectrum, it reproduces clear vocals and crisp highs.

Impedance Plot



Stable 8-ohm impedance.

Frequency Response (Crossover Split)



Response from 150 Hz to 16 kHz makes it suitable as a standalone or with a subwoofer.

Plot/Detail**Why It's Important****Beamwidth vs Frequency Plot**

Shows how coverage narrows or widens across different frequencies, helping optimize speaker placement and aiming in acoustically diverse spaces.

Directivity Index (DI) & Q Factor

Useful for acoustic simulation and modeling; helps predict how focused or diffuse the sound will be in complex installations.

Total Harmonic Distortion (THD)

Indicates how clean and linear the speaker remains under real-world operating power, critical for maintaining clarity at high SPL.

SPL vs Input Voltage

Capable of a max SPL of 118 dB SPL.

Sensitivity Graph

Validates the published 98 dB (1W/1m) sensitivity by frequency, ensuring accurate prediction of coverage and level in simulations.

Polars (1/3 Octave)

Provides off-axis response details at 500 Hz, 1 kHz, 2 kHz, 4 kHz, and 8 kHz for more accurate prediction in multi-speaker setups.