

# DX-IC6

**TWO-WAY 6.5-INCH HIGH EFFICIENCY  
CEILING MOUNT LOUDSPEAKER**



## APPLICATIONS

Conference Rooms · Houses of Worship  
Theaters · Sports Facilities · Health Clubs  
Convention Centers · Auditoriums  
Malls · Airports

## DESCRIPTION

Available in standard white or black finish, the powerful and versatile Desono DX-IC6 provides high quality paging and musical performance suitable numerous applications where the importance of sonic quality cannot be ignored. Particularly effective when supported by the DX-IC10SUB, a DX-IC6 system is capable of meeting demanding needs at a cost usually associated with much smaller loudspeakers. It installs quickly and provides exceptionally uniform coverage with excellent sonic properties.

Uniform voicing among the Desono DX product family makes for an easy match to the other models in the series, while a host of design innovations set the DX-IC6 apart from other products in its size and price range. Featuring genuine coaxial design with separate magnets for the LF and HF drivers, the DX-IC6 exhibits reduced distortion and industry-leading sensitivity permitting 3 dB to 6 dB greater output level, while requiring half the amplification power of competing products.

Patent-pending SpringLock™ clamps allow single-handed placement to speed installation and reduce labor time. The SpringLock spring-loaded clamps support the back can on the included tile rails and snap-on C-ring, so that the installer no longer needs to hold the can against the tile while tightening the clamps.

The front-face wattage selector switch enables quick adjustment of 70V/100V tap levels. A variety of installation accessories are available to accommodate different ceiling materials. Typical applications include paging, and background music in many venues.

## FEATURES

- High intelligibility with exceptional uniform coverage
- Fast installation with SpringLock™ mounting clamps
- Consistent, wide dispersion up to 16 kHz
- Attractive edgeless magnetic grille design
- Conduit knock-outs on the input cover meet plenum air space handling requirements

## TECHNICAL SPECIFICATIONS<sup>1</sup>

Operating Mode	Passive with DSP		
Operating Environment	Indoor		
Operating Range (-10dB) <sup>2</sup>	65 Hz to 20 kHz		
Nominal Beamwidth (H x V)	115°, conical		
Transducers	LF 1 x 6.5" (165 mm) HF 1 x 1.0" (25 mm) exit compression driver		
Sensitivity <sup>3</sup>	94 dB (2.83 V)	94 dB (1W at rated impedance 8 Ω)	
Nominal Continuous Power Handling <sup>4</sup>	Passive	28 V (100W @ 8Ω)	
Nominal Maximum SPL <sup>5</sup>	Passive	Peak 120 dB	Continuous 114 dB
Autoformer	70V: 60 W, 30 W, 15 W, 7.5 W; 100V: 60 W, 30 W, 15 W		
Recommended Amplifiers	Passive	100W - 200W @ 8Ω, (31V - 44V)	
Crossover Frequency	1.2 kHz		
Required Accessory	65 Hz Electronic high pass filter		

## PHYSICAL

Input Connection	4-position Euroblock connector		
Controls	Front-face wattage / low impedance selector switch		
Mounting Provisions	3 SpringLock mounting clamps with 3-inch grip range		
Certifications	ETL listed to comply with UL1480, UL2043 and CSA62368-1 Suitable for use in air handling spaces per NFPA 70 and NFPA 90		
Dimensions W x D	291 mm x 171 mm (11.46" x 6.75")		
Weight	TBD		
Finish	Refer to the Technical Drawing (page 2)		
Accessories (included)	C-Ring supporting plate, tile support bridge rails, grille, paint mask, cut-out template, flat screwdriver		
Models (order by grille color)	DX-IC6-W - loudspeaker with White grille DX-IC6-B - loudspeaker with Black grille		

## OPTIONS

Accessories	New Construction Brackets (SPA-NC400) Trim Rings (SPA-TR400) High Humidity Grilles (SPA-GHH400) 48" Tile Rails (SPA-RAIL48) Plenum-rated Dual-RJ45 Adapter (SPA-CCA200)
-------------	---

*Biamp strives to improve its products on a continual basis. Specifications are therefore subject to change without notice.*

**DX-IC6** TWO-WAY 6.5-INCH HIGH EFFICIENCY  
CEILING MOUNT LOUDSPEAKER

**TECHNICAL DRAWING / DIMENSIONS / FINISH**

**W (bezel diameter) x D**  
291 mm x 171 mm (11.46" x 6.75")

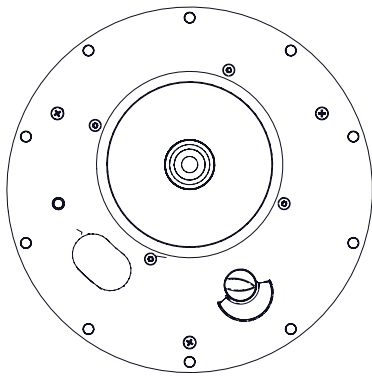
**Cutout Diameter**  
260 mm (10.25")

**Unit Weight**  
TBD

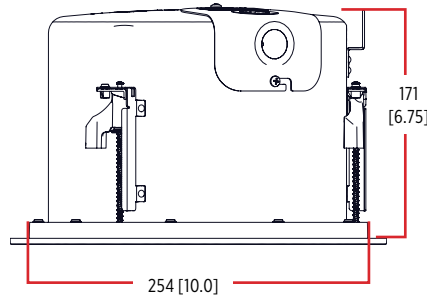
**Shipping Weight**  
TBD (shipped in pairs)

**Grille:**  
Powder-coated perforated steel backed with color-matched woven fabric with safety line. White or Black finish.

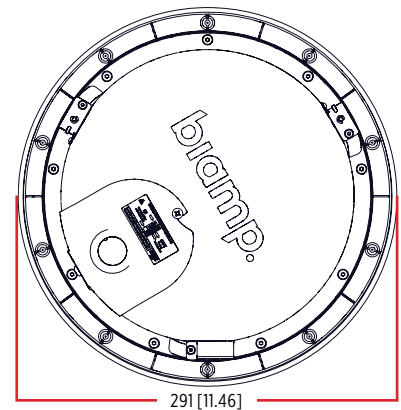
**Enclosure / Finish**  
Back Can: Black, Matte finish Steel  
Face: Reflex loaded UL 94V-0 rated ABS plastic, paintable Black finish.



Front (no grille)



Side



Top

**NOTES**

- 1. TECHNICAL SPECIFICATIONS** All measurements are taken indoor using a time- windowed and processed signal to eliminate room effects, approximating an anechoic environment at a distance of at least 6.0 m. All acoustic specifications are rounded to the nearest whole number. An external DSP using settings provided by Biamp is required to achieve the specified performance; further performance gains can be realized using the FIR loudspeaker optimization presets available in Biamp's Amplified Loudspeaker Controllers (ALCs).
- 2. OPERATING RANGE** The frequency range over which the on-axis processed response remains within 10 dB of the average SPL.
- 3. SENSITIVITY** The broadband SPL of the loudspeaker when pink noise is applied (band limited to the loudspeaker's Operating Range) at an input voltage of 2.83 V, in accordance with IEC 60268-5. Also listed for a voltage that would produce 1 watt into the nominal impedance. Measured in whole space with no external processing applied, except where indicated.
- 4. CONTINUOUS POWER HANDLING** The maximum continuous input voltage at the stated nominal impedance that the system can withstand, without damage, for a period of 2 hours using an IEC 60268-5 defined spectrum with recommended signal processing and protection filters.
- 5. NOMINAL MAXIMUM SPL** The SPL produced when an IEC 60268-5 signal is applied to the equalized loudspeaker system, at a level which drives at least one subsection to its rated continuous input voltage limit, referenced to a distance of 1 meter. The peak SPL represents the 2:1 (6 dB) crest factor of the IEC 60268-5 test signal.