FEATURES

• Exceptional audio clarity with small footprint and attractive styling
• Uniform coverage from coaxially mounted HF/LF drivers
• 6-position switch selects 70 V/100 V taps or low impedance bypass
• ETL listed to comply with UL 1480A, CSA 62368-1, CE marked, and RoHS compliant
• EN54-24 and ISO 7240-24 certification

TECHNICAL SPECIFICATIONS

Operating Mode | Passive with selectable low-impedance or 70 V/100 V operation
Operating Environment | Indoor/Outdoor
Operating Range (-10dB) | 48 Hz to 20 kHz
Nominal Beamwidth (H x V) | 100° x 100°
Transducers | LF 1 x 10" (250 mm) treated paper cone
| HF 1 x 1.4" (35 mm) voice coil compression driver
Sensitivity | @ 1 m 91 dB (2.83 V) 91 dB (1 W, 8 Ω)
Nominal Continuous Power Handling | 49 V (300 W, 8 Ω Nominal Impedance)
Nominal Maximum SPL (Processed) | @ 1 m 118 dB Continuous 124 db Peak
Rated Continuous Voltage | 45.7 V (33 dBV)
Rated Maximum SPL (Processed) | @ 1 m 114 dB Continuous 126 db Peak
Transformer | 70 V: 120 W, 60 W, 30 W, 15 W; 100 V: 120 W, 60 W, 30 W
Crossover / Protection | 1.48 kHz crossover, driver protection circuitry
Required Accessories | 48 Hz, 18 dB / oct. Butterworth high pass filter; DSP preset
Recommended Amplifiers | 300 W - 600 W, 8 Ω (49 V - 69 V)

PHYSICAL

Input Connection | Lever-actuated wire clamping 4-position terminal block with pass-through
Controls | Wattage / low impedance selector switch
Mounting Provisions | ClickMount pan-tilt bracket or ClickMount U-Bracket
Compliance | ETL listed to comply with UL 1480A, CSA STD C22.2# 62368-1
| EN54-24, ISO 7240-24, IEC 62368-1
Environmental Rating | IP54 per IEC 60529, IEC 60068-2-5 (Solar Radiation), IEC 60068-2-11 (Salt Mist), IEC 60068-2-42 (SO2), IEC 60068-2-60 (Chlorine)
Dimensions H x W x D | 529 mm x 310 mm x 312 mm [20.8" x 12.2" x 12.3”]
Weight (loudspeaker only) | 15.2 kg [33.43 lbs]
Finish | Refer to the Technical Drawings (pages 3-4)
Models (Order by mounting option) | EX-S10-CM [-B,-W] - loudspeaker with large ClickMount pan-tilt bracket
| EX-S10-UB [-B,-W] - loudspeaker with ClickMount U-Bracket and ClickPlug

OPTIONS

Accessories | CMX-LG [-B,-W] - Large ClickMount Pan-tilt Bracket Kit
| EXUB-S10 [-B,-W] - EX-S10 ClickMount U-Bracket kit
DESONO
EX-S10
TWO-WAY COAXIAL 10-INCH SURFACE MOUNT LOUDSPEAKER

AXIAL PROCESSED SENSITIVITY (dB SPL) 
- Black: On Axis
- Red: Half-Coverage Average
- Green: Phase

HORIZONTAL OFF-AXIS RESPONSE (dB SPL)
- Black: 0°
- Red: 15°
- Green: 30°
- Orange: 45°
- Blue: 60°

AXIAL SENSITIVITY (dB SPL)
- Black: On Axis
- Red: Half-Coverage Average
- Green: Phase

VERTICAL OFF-AXIS UP RESPONSE (dB SPL)
- Black: 0°
- Red: 15°
- Green: 30°
- Orange: 45°
- Blue: 60°

IMPEDANCE (Ω)
- Minimum Impedance 6.7 @ 160 Hz

VERTICAL OFF-AXIS DOWN RESPONSE (dB SPL)
- Black: 0°
- Red: 15°
- Green: 30°
- Orange: 45°
- Blue: 60°

DIRECTIVITY INDEX (dB)

BEAMWIDTH (degrees)
- Red: Horizontal
- Blue: Vertical
TECHNICAL DRAWING / DIMENSIONS / FINISH [EX-S10-CM]

H x W x D
529 mm x 310 mm x 312 mm
[20.8” x 12.2” x 12.3”]

Unit Weight
15.2 kg [33.43 lbs] loudspeaker only
16.7 kg [36.77 lbs] loudspeaker + bracket

Shipping Weight
TBD

Grille
Powder-coated perforated Marine Grade aluminum backed with hydrophobic cloth
Black or White

Enclosure / Bracket / Finish
High-impact UL94 5VB rated polycarbonate/ABS blend, painted UV resistant matte finish
Bracket: Heavily reinforced glass-filled nylon with UV-resistant painted matte finish cover
Color: Black (RAL 9017) or White (RAL 9016)

Grille
Powder-coated perforated Marine Grade aluminum backed with hydrophobic cloth
Black or White

Enclosure / Bracket / Finish
High-impact UL94 5VB rated polycarbonate/ABS blend, painted UV resistant matte finish
Bracket: Heavily reinforced glass-filled nylon with UV-resistant painted matte finish cover
Color: Black (RAL 9017) or White (RAL 9016)
**EX-S10**

**TWO-WAY COAXIAL 10-INCH SURFACE MOUNT LOUDSPEAKER**

**DESONO**

**TECHNICAL DRAWING / DIMENSIONS / FINISH [EX-S10-UB]**

**H x W x D**
529 mm x 309 mm x 312 mm  
[20.8" x 12.2" x 12.3"]

**Unit Weight**
15.2 kg [33.43 lbs] loudspeaker only  
16.7 kg [36.77 lbs] loudspeaker + bracket

**Shipping Weight**
TBD

**Grille and U-Bracket**
Powder-coated Marine Grade aluminum. Grille is perforated and backed with hydrophobic cloth  
Black (RAL 9017) or White (RAL 9016)

**Enclosure / Finish**
High-impact UL94 5VB rated polycarbonate/ABS blend, painted UV resistant matte finish  
Black (RAL 9017) or White (RAL 9016)
**DESONO**

**EX-S10**

**TWO-WAY COAXIAL 10-INCH SURFACE MOUNT LOUDSPEAKER**

**EX-S10-CM, EX-S10SUB-CM**

EX-S10 Loudspeaker with ClickMount pan-tilt bracket

- Large ClickMount Pan-tilt Bracket

**Pivot angle (portrait orientation)**
- Horizontal 120° in 10° increments
- Vertical 56° in 8° increments (32° down-tilt)

**EX-S10-UB, EX-S10SUB-UB**

EX-S10 Loudspeaker with ClickMount U-Bracket and ClickPlug

- U-Bracket
- ClickPlug

**SPECIFICATIONS FOR EN54-24**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensitivity (1 W, 4m)</td>
<td>77.7 dB</td>
</tr>
<tr>
<td>Maximum SPL (4m)</td>
<td>99.9 dB (Low Z) 98.1 dB (120 W tap)</td>
</tr>
<tr>
<td>Coverage (-6 dB)</td>
<td>500 Hz: 175°/140° 1 kHz: 110°/110° 2 kHz: 105°/105° 4 kHz: 90°/90°</td>
</tr>
<tr>
<td>Rated Impedance for Taps</td>
<td></td>
</tr>
<tr>
<td>Low Z: 8 Ω</td>
<td></td>
</tr>
<tr>
<td>120 W: 35 Ω, 60 W: 70 Ω, 30 W: 150 Ω, 15 W: 300 Ω</td>
<td></td>
</tr>
</tbody>
</table>

**AXES AND PLANES**

1. Reference Plane (green) is coincident with the front of the LF mounting ring
2. Reference Axis (black) perpendicular to the reference plane, passing through the center of the coaxial LF/HF driver
3. Horizontal Plane (red) intersects the reference plane and the vertical plane at a right angle and includes the reference axis
4. Vertical Plane (blue) intersects the reference plane at a right angle including the reference axis and the center point of the cabinet’s front radius

Biamp strives to improve its products on a continual basis. Specifications are therefore subject to change without notice. Data presented on this data sheet represents the basic performance specifications for the model. For a detailed analysis of this loudspeaker’s performance, please download the GLL file and/or the CLF file from our website: biamp.com
CAUTION: Installation of loudspeakers should only be performed by trained and qualified personnel. It is strongly recommended that a licensed and certified professional structural engineer approve the mounting design.