## INSTALLED PRODUCT REFERENCE GUIDE

### SURFACE-MOUNT LOUDSPEAKERs

<table>
<thead>
<tr>
<th>FreeSpace</th>
<th>DesignMax</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS2SE</td>
<td>DM3SE</td>
</tr>
<tr>
<td>FS4SE</td>
<td>DM5SE</td>
</tr>
<tr>
<td>DM3SE</td>
<td>DM6SE</td>
</tr>
<tr>
<td>DM5SE</td>
<td>DM8S</td>
</tr>
<tr>
<td>DM6SE</td>
<td>DM10S-SUB</td>
</tr>
</tbody>
</table>

### Driver Components
- FreeSpace: 1 × 2.25-inch full-range, 1 × 4.5-inch full-range, 1 × 0.75-inch tweeter, 1 × 5.25-inch woofer, 1 × 1-inch tweeter, 1 × 5.25-inch woofer, 1 × 1.25-inch tweeter, 1 × 5.25-inch woofer, 1 × 1-inch compression driver, 1 × 8-inch woofer, 1 × 10-inch woofer
- DesignMax: 1 × 1-inch compression driver

### Power Handling (Long-term)
- FreeSpace: 20 W, 50 W
- DesignMax: 70 Hz – 20 kHz, 75 Hz – 20 kHz, 70 Hz – 20 kHz, 70 Hz – 20 kHz, 60 Hz – 20 kHz, 52 Hz – 20 kHz, 41 Hz – 108 Hz, 35 Hz – 125 Hz

### Coverage (H x V, or Conical)
- FreeSpace: 145° x 140°, 150° x 135°, 150° x 125°, 140° conical
- DesignMax: 125° conical, 130° conical, Omnidirectional

### Dimensions (H x W x D)
- FreeSpace: 182 x 113 x 114 mm, 254 x 171 x 174 mm, 252 x 154 x 155 mm, 286 x 192 x 197 mm, 340 x 222 x 229 mm, 395 x 249 x 255 mm, 502 x 316 x 323 mm
- DesignMax: 70 Hz – 20 kHz, 75 Hz – 20 kHz, 70 Hz – 20 kHz, 70 Hz – 20 kHz, 60 Hz – 20 kHz, 52 Hz – 20 kHz, 41 Hz – 108 Hz, 35 Hz – 125 Hz

### Color options
- FreeSpace: Black or white
- DesignMax: Black or white, Black or white, Black or white, Black or white, Black or white, Black or white

### Environmental
- FreeSpace: IP55 outdoor, Optional aluminum grille, IP55 outdoor, Optional aluminum grille
- DesignMax: IP55 outdoor, Included aluminum grille, IP55 outdoor, Included aluminum grille, Indoor, Indoor

### Installation Technology
- FreeSpace: U-bracket, horizontal or vertical installation; repeatable angles
- DesignMax: QuickHold, horizontal or vertical installation; repeatable angles

### Installation Accessories
- DesignMax: Included: wall- & ceiling-mount U-bracket, Optional: wall-mount pan-&-tilt bracket, Ceiling Mount Bracket S2

### Certifications
- FreeSpace: EN 54-24 for voice alarm systems, UL 1480 UUM, UL-554 for fire alarm & signaling
- DesignMax: UL 1480A, UL 1480A, UL 1480A, UL 1480A, UL 1480A

### Product Codes
- FreeSpace: 841151-0310 (Black, Pair), 841155-0310 (Black, Pair), 829705-0110 (Black, Pair)
- DesignMax: 829712-0110 (White, Pair), 829682-0210 (White, Pair), 801332-0210 (White)
## IN-CEILING LOUDSPEAKERS

<table>
<thead>
<tr>
<th></th>
<th>FS2C</th>
<th>FS4CE</th>
<th>DM2C-LP</th>
<th>DM3C</th>
<th>DM5C</th>
<th>DM6C</th>
<th>DMBC</th>
<th>DMBC-SUB</th>
<th>EM90</th>
<th>EM180</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Driver Components</strong></td>
<td>1 × 2.25-inch full-range</td>
<td>1 × 4.5-inch full-range</td>
<td>1 × 2.5-inch full-range</td>
<td>1 × 0.75-inch tweeter</td>
<td>1 × 3.25-inch woofer</td>
<td>1 × 1-inch tweeter</td>
<td>1 × 5.25-inch woofer</td>
<td>1 × 1.25-inch tweeter</td>
<td>1 × 6.5-inch woofer</td>
<td>1 × 1-inch comp driver</td>
</tr>
<tr>
<td><strong>Power Handling</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Long-term</td>
<td>20 W</td>
<td>50 W</td>
<td>20 W</td>
<td>50 W</td>
<td>60 W</td>
<td>125 W</td>
<td>150 W</td>
<td>150 W</td>
<td>180 W</td>
<td>150 W</td>
</tr>
<tr>
<td><strong>Sensitivity</strong></td>
<td>88 dB</td>
<td>88 dB</td>
<td>84 dB</td>
<td>85 dB</td>
<td>87 dB</td>
<td>88 dB</td>
<td>91 dB</td>
<td>89 dB</td>
<td>96 dB</td>
<td>93 dB</td>
</tr>
<tr>
<td><strong>Max SPL</strong></td>
<td>99 dB</td>
<td>105 dB</td>
<td>97 dB</td>
<td>98 dB</td>
<td>105 dB</td>
<td>109 dB</td>
<td>113 dB</td>
<td>112 dB</td>
<td>118 dB</td>
<td>115 dB</td>
</tr>
<tr>
<td><strong>Freq Response</strong></td>
<td>95 Hz - 16 kHz</td>
<td>83 Hz - 19 kHz</td>
<td>70 Hz - 17 kHz</td>
<td>95 Hz - 18 kHz</td>
<td>85 Hz - 19 kHz</td>
<td>75 Hz - 17 kHz</td>
<td>70 Hz - 20 kHz</td>
<td>59 Hz - 20 kHz</td>
<td>45 Hz - 117 Hz</td>
<td>38 Hz - 155 Hz</td>
</tr>
<tr>
<td><strong>Nominal Impedance</strong></td>
<td>16 Ohm in bypass, multiple transformer taps for 70/100V operation; highest tap, 40W</td>
<td>8 Ohm in bypass, multiple transformer taps for 70/100V operation; highest tap, 20W</td>
<td>16 Ohm in bypass, multiple transformer taps for 70/100V operation; highest tap, 20W</td>
<td>8 Ohm in bypass, multiple transformer taps for 70/100V operation; highest tap, 50W</td>
<td>8 Ohm in bypass, multiple transformer taps for 70/100V operation; highest tap, 80W</td>
<td>8 Ohm in bypass, multiple transformer taps for 70/100V operation; highest tap, 80W</td>
<td>8 Ohm in bypass, multiple transformer taps for 70/100V operation; highest tap, 150W</td>
<td>8 Ohm in bypass, multiple transformer taps for 70/100V operation; highest tap, 80W</td>
<td>150 Wprivate: 150 W</td>
<td>150 W</td>
</tr>
<tr>
<td><strong>Coverage</strong></td>
<td>150° conical</td>
<td>145° conical</td>
<td>150° conical</td>
<td>135° conical</td>
<td>130° conical</td>
<td>120° conical</td>
<td>135° conical</td>
<td>Omnidirectional</td>
<td>90° × 75°</td>
<td>180° × 75°</td>
</tr>
<tr>
<td><strong>Acoustic Technology</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>Dispersion alignment system</td>
<td>Dispersion alignment system</td>
<td>Dispersion alignment system</td>
<td>Coaxial compression driver &amp; woofer</td>
<td>—</td>
<td>PhaseGuide technology</td>
<td>PhaseGuide technology</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>182 × 132 × 125 mm (10 1/4 × 5 1/4 × 5 in)</td>
<td>272 × 172 × 163 mm (10 1/4 × 6 5/8 × 6 3/8 in)</td>
<td>227 × 167 × 113 mm (9 1/4 × 6 1/2 × 4 7/8 in)</td>
<td>235 × 154 × 144 mm (9 1/4 × 6 1/8 × 5 5/8 in)</td>
<td>303 × 205 × 192 mm (12 × 8 × 7 1/2 in)</td>
<td>356 × 239 × 223 mm (14 × 9 3/8 × 8 7/8 in)</td>
<td>409 × 253 × 240 mm (16 × 10 × 9 1/2 in)</td>
<td>409 × 253 × 240 mm (16 × 10 × 9 1/2 in)</td>
<td>350 × 249 × 236 mm (13 3/4 × 9 7/8 × 9 3/16 in)</td>
<td>350 × 249 × 236 mm (13 3/4 × 9 7/8 × 9 3/16 in)</td>
</tr>
<tr>
<td><strong>Grille options</strong></td>
<td>Black or white</td>
<td>Black or white</td>
<td>Black or white</td>
<td>Black or white</td>
<td>Black or white</td>
<td>Black or white</td>
<td>Black or white</td>
<td>White with optional grille</td>
<td>Black</td>
<td>White with optional grille</td>
</tr>
<tr>
<td><strong>Environmental</strong></td>
<td>Indoor</td>
<td>IP55 outdoor</td>
<td>Indoor</td>
<td>Indoor</td>
<td>Indoor</td>
<td>Indoor</td>
<td>Indoor</td>
<td>Indoor</td>
<td>Indoor</td>
<td>Indoor</td>
</tr>
<tr>
<td><strong>Installation Technology</strong></td>
<td>—</td>
<td>QuickHold; magnetically attaching grille; minimum bezel; removable logo</td>
<td>QuickHold; magnetically attaching grille; minimum bezel; removable logo</td>
<td>QuickHold; magnetically attaching grille; minimum bezel; removable logo</td>
<td>QuickHold; magnetically attaching grille; minimum bezel; removable logo</td>
<td>QuickHold; magnetically attaching grille; minimum bezel; removable logo</td>
<td>QuickHold; magnetically attaching grille; minimum bezel; removable logo</td>
<td>QuickHold; magnetically attaching grille; minimum bezel; removable logo</td>
<td>QuickHold; magnetically attaching grille; minimum bezel; removable logo</td>
<td>QuickHold; magnetically attaching grille; minimum bezel; removable logo</td>
</tr>
<tr>
<td><strong>Installation Accessories</strong></td>
<td>Included: hole template (for 6 units), retrofit kit</td>
<td>Included: hole template (for 6 units), retrofit kit</td>
<td>Included: hole template (for 6 units), retrofit kit</td>
<td>Included: hole template (for 6 units), retrofit kit</td>
<td>Included: hole template (for 6 units), retrofit kit</td>
<td>Included: hole template (for 6 units), retrofit kit</td>
<td>Included: hole template (for 6 units), retrofit kit</td>
<td>Included: hole template (for 6 units), retrofit kit</td>
<td>Included: hole template (for 6 units), retrofit kit</td>
<td>Included: hole template (for 6 units), retrofit kit</td>
</tr>
<tr>
<td><strong>Certifications</strong></td>
<td>EN 54-24 for voice alarm systems, UL 1480 UWM, UL-C5541 for fire alarm &amp; signaling, UL 2403</td>
<td>EN 54-24 for voice alarm systems, UL 1480 UWM, UL-C5541 for fire alarm &amp; signaling, UL 2403</td>
<td>UL 1480A, UL 2043</td>
<td>UL 1480A, UL 2043</td>
<td>UL 1480A, UL 2043</td>
<td>UL 1480A, UL 2043</td>
<td>UL 1480A, UL 2043</td>
<td>UL 1480A, UL 2043</td>
<td>UL 1480A, UL 2043</td>
<td>UL 1480A, UL 2043</td>
</tr>
<tr>
<td><strong>Product Codes</strong></td>
<td>841153-0310 (Black, Pair)</td>
<td>841153-0310 (Black, Pair)</td>
<td>841153-0410 (White, Pair)</td>
<td>815011-0110 (Black, Pair)</td>
<td>829708-0110 (Black, Pair)</td>
<td>829708-0210 (White, Pair)</td>
<td>829708-0210 (White, Pair)</td>
<td>829708-0210 (White, Pair)</td>
<td>829708-0210 (White, Pair)</td>
<td>829380-0110 (Black)</td>
</tr>
</tbody>
</table>

For more detailed specs and testing parameters, please view the product documentation at [PRO.BOSE.COM](http://www.PRO.BOSE.COM). © 2021 Bose Corporation, Bose, AnnaMatch, ControlSpace, DesignMax, EdgeMax, FreeSpace, Panaray, PhaseGuide, PowerSpace, PowerMatch, and ShowMatch are trademarks of Bose Corporation. Dante is a registered trademark of Audinate Pty Ltd. Specifications subject to change without notice. Product images not to scale. Rev Date: 08-06-2021
PENDANT-MOUNT LOUDSPEAKERS

<table>
<thead>
<tr>
<th>FreeSpace</th>
<th>DesignMax</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS2P</td>
<td>DM3P</td>
</tr>
</tbody>
</table>

**Driver Components**
- 1 × 2.25-inch full-range
- 1 × 3.25-inch woofer
- 1 × 5.25-inch woofer
- 1 × 6.5-inch woofer
- 1 × 10-inch woofer

**Power Handling (Long-term)**
- 20 W
- 30 W
- 60 W
- 125 W
- 300 W

**Sensitivity**
- 87 dB
- 84 dB
- 87 dB
- 89 dB
- 85 dB

**Max SPL (SPL / 1 W @ 1 m)**
- 100 dB
- 99 dB
- 105 dB
- 110 dB
- 110 dB

**Freq Response (3- db)**
- 95 Hz – 16 kHz
- 85 Hz – 16 kHz
- 85 Hz – 20 kHz
- 65 Hz – 20 kHz
- 46 Hz – 108 Hz
- 40 Hz – 125 Hz

**Coverage**
- 140° conical
- 130° conical
- 120° conical
- 115° conical
- Omnidirectional below 200 Hz

**Acoustic Technology**
- Dispersion alignment system
- Dispersion alignment system
- Dispersion alignment system
- —

**Dimensions, Flush-Mount (Ø × D × total D × ceiling D)**
- 149 × 215 mm
- 207 × 248 mm
- 259 × 300 mm
- 308 × 375 mm
- 400 × 383 mm

**Color options**
- Black or white
- Black or white
- Black or white
- Black or white
- Black or white

**Environmental**
- Indoor
- Indoor
- Indoor
- IP55 outdoor
- Indoor

**Installation Technology**
- Pendant mount
- Pendant mount via one (1) suspension attachment point and one (1) safety cable attachment point.
- Pendant mount via one (1) suspension attachment point and one (1) safety cable attachment point.
- Pendant mount via one (1) suspension attachment point and one (1) safety cable attachment point.
- Pendant mount via one (1) suspension attachment point and one (1) safety cable attachment point.

**Installation Accessories**
- Included: one (1) 4.5 meter (15 foot) Gripple adjustable suspension cable system, four (4) cable ties
- Optional: Threaded Rod Adapter, Conduit Adapter, Gripple Pendant Suspension Cable Pair kit
- Included: one (1) 4.5 meter (15 foot) Gripple adjustable suspension cable system, four (4) cable ties
- Optional: Threaded Rod Adapter, Conduit Adapter, Gripple Pendant Suspension Cable Pair kit
- Included: one (1) 4.5 meter (15 foot) Gripple adjustable suspension cable system, four (4) cable ties
- Optional: Threaded Rod Adapter, Conduit Adapter, Gripple Pendant Suspension Cable Pair kit
- Included: one (1) 4.5 meter (15 foot) Gripple adjustable suspension cable system, four (4) cable ties
- Optional: Threaded Rod Adapter, Conduit Adapter, Gripple Pendant Suspension Cable Pair kit
- Included: one (1) 4.5 meter (15 foot) Gripple adjustable suspension cable system, four (4) cable ties
- Optional: Threaded Rod Adapter, Conduit Adapter, Gripple Pendant Suspension Cable Pair kit

**Certifications**
- EN 54-24 for voice alarm systems, UL 1480 UoUw, ULc-S541 for fire alarm & signaling
- UL-1480A, S5591/UL Listed, NFPA70 & NFPA90-A, CE compliant, UL 2239 for suspension cable
- UL-1480A, S5591/UL Listed, NFPA70 & NFPA90-A, CE compliant, UL 2239 for suspension cable
- UL-1480A, S5591/UL Listed, NFPA70 & NFPA90-A, CE compliant, UL 2239 for suspension cable
- UL-1480A, S5591/UL Listed, NFPA70 & NFPA90-A, CE compliant, UL 2239 for suspension cable

**Product Codes**
- 841153-0110 (Black, Pair)
- 841153-0110 (White, Pair)
- 841156-0210 (Black, Pair)
- 841156-0210 (White, Pair)
- 835265-0210 (Black)
- 835265-0210 (White)

For more detailed specs and testing parameters, please view or download the technical data sheets for these products at PRO.BOSE.COM. © 2021 Bose Corporation. Bose, ArenaMatch, ControlSpace, DesignMax, EdgeMax, FreeSpace, Panaray, PhaseGuide, PowerSpace, PowerMatch, and ShoeMatch are trademarks of Bose Corporation. Dante is a registered trademark of Audinate Pty Ltd. Specifications subject to change without notice. Product images not to scale. Rev Date: 08-06-2021
<table>
<thead>
<tr>
<th>Driver Components</th>
<th>Power Handling (Long-term)</th>
<th>Sensitivity (SPL / W @ 1 m)</th>
<th>Max SPL (SPL / W @ 1 m)</th>
<th>Freq Response (3-dB)</th>
<th>Nominal Impedance</th>
<th>Coverage (H x W, or Conical)</th>
<th>Acoustic Technology</th>
<th>Dimensions, Flush-Mount (Ø x total D x ceiling D)</th>
<th>Dimensions, Surface-Mount (H x W x D)</th>
<th>Color options</th>
<th>Environmental</th>
<th>Installation Technology</th>
<th>Installation Accessories</th>
<th>Certifications</th>
<th>Product Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x 2.5-inch full-range</td>
<td>12 W</td>
<td>84 dB</td>
<td>95 dB</td>
<td>210 Hz – 16 kHz</td>
<td>6 Ω</td>
<td>170° conical</td>
<td>—</td>
<td>157 x 134 x 116 mm</td>
<td>3.0 x 3.0 x 4.0 in</td>
<td>Black or white grille</td>
<td>Indoor</td>
<td>—</td>
<td>Optional: tile bridge (for 6 units), rough-in pan pack (for 6 units)</td>
<td>UL 1480 (UEAY), UL 2045 with plenum cover accessory</td>
<td>040149 (Black, Pair) 040149 (White, Pair)</td>
</tr>
<tr>
<td>1 x 2.5-inch full-range</td>
<td>12 W</td>
<td>84 dB</td>
<td>95 dB</td>
<td>210 Hz – 16 kHz</td>
<td>6 Ω</td>
<td>170° conical</td>
<td>—</td>
<td>77 x 77 x 102 mm</td>
<td>6.2 x 5.3 x 4.6 in</td>
<td>Black or white grille</td>
<td>Indoor</td>
<td>—</td>
<td>Included: wall-mount bracket</td>
<td>UL 1480 (UEAY), UL 2045 with plenum cover accessory</td>
<td>040144 (Black, Pair) 040144 (White, Pair)</td>
</tr>
<tr>
<td>1 x 5.25-inch woofer</td>
<td>70/100V: 200 W Low Z: 50 W per channel stereo, 100 W mono</td>
<td>76 dB</td>
<td>210 Hz – 16 kHz</td>
<td>6.0 Ω in bypass, multiple transformer taps for 70/100V operation, highest tap, 200W</td>
<td>—</td>
<td>Omnidirectional</td>
<td>Domed port grille, acoustic diffuser</td>
<td>356 x 191 x 342 mm</td>
<td>38.8 x 4.2 x 5.5 in</td>
<td>Black or white grille</td>
<td>Indoor</td>
<td>Wall-mount with bracket accessories, single-, double-, or triple-stack arrayable with coupling accessory</td>
<td>Optional: tile bridge (for 6 units), rough-in pan pack (for 6 units)</td>
<td>UL 1480 (UEAY), UL 2045 with plenum cover accessory</td>
<td>040142 (Black, Pair) 040142 (White, Pair)</td>
</tr>
<tr>
<td>1 x 5.25-inch woofer</td>
<td>70/100V: 200 W Low Z: 50 W per channel stereo, 100 W mono</td>
<td>76 dB</td>
<td>210 Hz – 16 kHz</td>
<td>6.0 Ω in bypass, multiple transformer taps for 70/100V operation, highest tap, 200W</td>
<td>—</td>
<td>Omnidirectional</td>
<td>Column line array</td>
<td>38.7 x 4.2 x 7.1 in</td>
<td>98.4 x 106 x 206 mm</td>
<td>Black or white grille</td>
<td>Indoor</td>
<td>Wall-mount with bracket accessories, single-, double-, or triple-stack arrayable with included hardware</td>
<td>Optional: tile bridge (for 6 units), rough-in pan pack (for 6 units)</td>
<td>UL 1480 (UEAY)</td>
<td>040187 (Black, Pair) 040187 (White, Pair)</td>
</tr>
<tr>
<td>1 x 2.5-inch full-range</td>
<td>70/100V: 200 W Low Z: 50 W per channel stereo, 100 W mono</td>
<td>87 dB</td>
<td>96 dB</td>
<td>70 Hz – 10 kHz</td>
<td>—</td>
<td>—</td>
<td>Column line array</td>
<td>210 Hz – 16 kHz</td>
<td>985 x 104 x 139 mm</td>
<td>Green</td>
<td>IP55 outdoor</td>
<td>Wall mount, single-, double- or triple-stack arrayable with included hardware</td>
<td>Optional: wall-mount pitch lock bracket, wall-mount bi-pivot bracket, wall-mount pitch only bracket, coupling bracket, transformer for 70/100V operation</td>
<td>UL 1480 (UEAY)</td>
<td>040147 (White) 040148 (Black)</td>
</tr>
<tr>
<td>1 x 4.5-inch full-range</td>
<td>80 W</td>
<td>100 dB</td>
<td>100 dB</td>
<td>70 Hz – 15 kHz</td>
<td>8 Ω</td>
<td>360° x 50°</td>
<td>Digitally steerable, self-powered, articulated column line array</td>
<td>157 x 134 x 116 mm</td>
<td>98.5 x 104 x 139 mm</td>
<td>Black or white grille</td>
<td>Indoor</td>
<td>Wall mount, single-, double- or triple-stack arrayable with included hardware</td>
<td>Optional: wall-mount pitch lock bracket, wall-mount bi-pivot bracket, wall-mount pitch only bracket, coupling bracket, transformer for 70/100V operation</td>
<td>UL 1480 (UEAY)</td>
<td>040188 (White) 040189 (Black)</td>
</tr>
<tr>
<td>12 x 2.25-inch full-range</td>
<td>120 W</td>
<td>160° x 20°</td>
<td>85 dB</td>
<td>50 Hz - 16 kHz</td>
<td>8 Ω</td>
<td>160° x 20°</td>
<td>Digitally steerable, self-powered, articulated column line array</td>
<td>38.8 x 4.2 x 5.5 in</td>
<td>98.4 x 106 x 206 mm</td>
<td>Black or white grille</td>
<td>Indoor</td>
<td>Wall mount, single-, double- or triple-stack arrayable with included hardware</td>
<td>Optional: wall-mount pitch lock bracket, wall-mount bi-pivot bracket, wall-mount pitch only bracket, coupling bracket, transformer for 70/100V operation</td>
<td>UL 1480 (UEAY)</td>
<td>040151 (Green) 040152 (White)</td>
</tr>
<tr>
<td>12 x 2.25-inch full-range</td>
<td>120 W</td>
<td>160° x 20°</td>
<td>85 dB</td>
<td>50 Hz - 16 kHz</td>
<td>8 Ω</td>
<td>160° x 20°</td>
<td>Digitally steerable, self-powered, articulated column line array</td>
<td>38.8 x 4.2 x 5.5 in</td>
<td>98.4 x 106 x 206 mm</td>
<td>Black or white grille</td>
<td>Indoor</td>
<td>Wall mount, single-, double- or triple-stack arrayable with included hardware</td>
<td>Optional: wall-mount pitch lock bracket, wall-mount bi-pivot bracket, wall-mount pitch only bracket, coupling bracket, transformer for 70/100V operation</td>
<td>UL 1480 (UEAY)</td>
<td>040152 (White) 040153 (Black)</td>
</tr>
<tr>
<td>12 x 2.25-inch full-range</td>
<td>120 W</td>
<td>160° x 20°</td>
<td>85 dB</td>
<td>50 Hz - 16 kHz</td>
<td>8 Ω</td>
<td>160° x 20°</td>
<td>Digitally steerable, self-powered, articulated column line array</td>
<td>38.8 x 4.2 x 5.5 in</td>
<td>98.4 x 106 x 206 mm</td>
<td>Black or white grille</td>
<td>Indoor</td>
<td>Wall mount, single-, double- or triple-stack arrayable with included hardware</td>
<td>Optional: wall-mount pitch lock bracket, wall-mount bi-pivot bracket, wall-mount pitch only bracket, coupling bracket, transformer for 70/100V operation</td>
<td>UL 1480 (UEAY)</td>
<td>040153 (Black) 040154 (White)</td>
</tr>
</tbody>
</table>

For more detailed specs and testing parameters, please view or download the technical data sheets for these products at PRO.BOSE.COM. © 2021 Bose Corporation. Bose, ArenaMatch, ControlSpace, DesignMax, EdgeMax, FreeSpace, Panaray, PhaseGuide, PowerSpace, PowerMatch, and ShowMatch are trademarks of Bose Corporation. Dante is a registered trademark of Audinate Pty Ltd. Specifications subject to change without notice. Product images not to scale. Rev Date: 08-06-2021
# Point Source Install Loudspeakers

<table>
<thead>
<tr>
<th>AMM Series</th>
<th>AMU Series (ArenaMatch Utility)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMM108</td>
<td>AMU105</td>
</tr>
<tr>
<td>AMM112</td>
<td>AMU108</td>
</tr>
<tr>
<td>AMM115</td>
<td>AMU206</td>
</tr>
<tr>
<td>AMM120</td>
<td>AMU208</td>
</tr>
<tr>
<td>AMM125</td>
<td>MB210-WR</td>
</tr>
</tbody>
</table>

### Driver Components
- **AMM Series**:
  - 1 x 1.7-in compression driver
  - 1 x 8-in woofer
  - 1 x 3-in compression driver
  - 1 x 12-in woofer
- **AMU Series**:
  - 1 x Bose EM8 2-inch voice-coil compression driver
  - 1 x 5.25-in woofer
  - 1 x 8-in woofer

### Power Handling (Long-term)
- **AMM Series**:
  - 150 W
  - 300 W passive
  - 500 W (HF bi-amp)
  - 45 W (LF bi-amp)
- **AMU Series**:
  - 150 W
  - 250 W
  - 300 W
  - 400 W

### Sensitivity (SPL / 1 W @ 1 m)
- **AMM Series**:
  - 94 dB
  - 96 dB
  - 96 dB (half-space)
  - 90 dB

### Max SPL (SPL / 1 W @ 1 m)
- **AMM Series**:
  - 116 dB
  - 121 dB
  - 123 dB (half-space)
  - 111 dB

### Coverage (H x V)
- **AMM Series**:
  - Nominal: 110° x 60°
  - Omnidirectional: 110° x 60°
  - 90° x 60° rotatable
  - 120° x 60° rotatable

### Dimensions (H x W x D)
- **AMM Series**:
  - (1) $18.0 \times 18.0 \times 15.0$ in
  - (2) $152 \times 304 \times 190$ mm
  - (3) $12.5 \times 12.5 \times 10.5$ in
  - (4) $235 \times 470 \times 262$ mm

### Color Options
- **AMM Series**:
  - Black
  - Black or white

### Environmental
- **AMM Series**: Indoor
  - **AMU Series**: IP55 outdoor

### Installation Technology
- **AMM Series**:
  - 1 x 35 mm (1.4 in) pole cup (for pole-mounting)
  - 4 x M8 threaded inserts (for RMUBRK1 attachment)
  - 6 x M10 threaded inserts (for accessory attachment or mounting)
- **AMU Series**: Wall-mount or ceiling mount with included or optional bracket

### Installation Accessories
- **AMM Series**:
  - Optional: U-bracket kit; Suspension bracket; RMUBRK1 (Pan-and-tilt Bracket)
- **AMU Series**:
  - Included: stainless-steel U-bracket; Optional: pan-and-tilt bracket

### Certifications
- **AMM Series**: EN 54-24 for voice alarm systems
- **AMU Series**: EN 54-24 for voice alarm systems

### Product Codes
- **AMM Series**:
  - 843160-0110 (Black)
  - 843161-0110 (Black)
  - 843163-0110 (Black)

- **AMU Series**: 811433-0110 (Black)
ARRAYABLE INSTALL LOUDSPEAKERS

AM Series (ArenaMatch)

<table>
<thead>
<tr>
<th>AM10/60</th>
<th>AM10/80</th>
<th>AM10/100</th>
<th>AM20/60</th>
<th>AM20/80</th>
<th>AM20/100</th>
<th>AM40/60</th>
<th>AM40/80</th>
<th>AM40/100</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="AM10/60.png" alt="Image" /></td>
<td><img src="AM10/80.png" alt="Image" /></td>
<td><img src="AM10/100.png" alt="Image" /></td>
<td><img src="AM20/60.png" alt="Image" /></td>
<td><img src="AM20/80.png" alt="Image" /></td>
<td><img src="AM20/100.png" alt="Image" /></td>
<td><img src="AM40/60.png" alt="Image" /></td>
<td><img src="AM40/80.png" alt="Image" /></td>
<td><img src="AM40/100.png" alt="Image" /></td>
</tr>
</tbody>
</table>

**Driver Components**

- AM10: 6 × Bose EMB2S titanium-diaphragm, neodymium compression drivers
- AM20: 6 × Bose EMB2S titanium-diaphragm, neodymium compression drivers
- AM40: 6 × Bose EMB2S titanium-diaphragm, neodymium compression drivers

**Power Handling** (Long-term)

- AM10: 750 W (passive), 150 W HF (bi-amp)
- AM20: 750 W (passive), 150 W HF (bi-amp)
- AM40: 750 W (passive), 150 W HF (bi-amp)

**Sensitivity** (SPL / 1 W @ 1 m)

- AM10: 100 dB (passive), 94 dB (LF bi-amp), 107 dB (HF bi-amp)
- AM20: 99 dB (passive), 94 dB (LF bi-amp), 106 dB (HF bi-amp)
- AM40: 98 dB (passive), 94 dB (LF bi-amp), 105 dB (HF bi-amp)

**Max SPL** (SPL / 1 W @ 1 m)

- AM10: 129 dB (passive), 122 dB (LF bi-amp), 129 dB (HF bi-amp)
- AM20: 128 dB (passive), 122 dB (LF bi-amp), 128 dB (HF bi-amp)
- AM40: 127 dB (passive), 122 dB (LF bi-amp), 127 dB (HF bi-amp)

**Freq Response (3-dB)**

- AM10: 65 Hz - 16 kHz
- AM20: 65 Hz - 16 kHz
- AM40: 65 Hz - 16 kHz

**Nominal Impedance**

- AM10: 8 Ω passive, 8 Ω + 8 Ω bi-amp
- AM20: 8 Ω passive, 8 Ω + 8 Ω bi-amp
- AM40: 8 Ω passive, 8 Ω + 8 Ω bi-amp

**Coverage (H × V)**

- AM10: 60° × 10° 80° × 10° 100° × 10°
- AM20: 60° × 20° 80° × 20° 100° × 20°
- AM40: 60° × 40° 80° × 40° 100° × 40°

**Dimensions, (H × W × D)**

- AM10: 409 × 783 × 420 mm, 16.0 × 30.8 × 16.5 in
- AM20: 437 × 783 × 416 mm, 17.2 × 30.8 × 16.4 in
- AM40: 489 × 783 × 400 mm, 19.3 × 30.8 × 15.8 in

**Color options**

- AM10: Black
- AM20: Black
- AM40: Black

**Environmental**

- AM10: IP55 outdoor
- AM20: IP55 outdoor
- AM40: IP55 outdoor

**Certifications**

- AM10: EN 54-24 for voice alarm systems
- AM20: EN 54-24 for voice alarm systems
- AM40: EN 54-24 for voice alarm systems

**Product Codes**

- AM10/80: 794042-3350 (Black), 794042-6650 (Black), 794042-8850 (Black)
- AM20/80: 794042-3360 (Black), 794042-6660 (Black), 794042-8860 (Black)
- AM40/80: 794042-3380 (Black), 794042-6680 (Black), 794042-8880 (Black)

For more detailed specs and testing parameters, please view or download the technical data sheets for these products at PRO.BOSE.COM. © 2021 Bose Corporation. Bose, ArenaMatch, ControlSpace, DesignMax, EdgeMax, FreeSpace, Panaray, PhaseGuide, PowerSpace, PowerMatch, and ShowMatch are trademarks of Bose Corporation. Daniels is a registered trademark of Audinate Pty Ltd. Specifications subject to change without notice. Product images not to scale. Rev Date: 08-06-2021
## ARRAYABLE INSTALL LOUDSPEAKERS

### SM Series (ShowMatch)

<table>
<thead>
<tr>
<th>Array Elements</th>
<th>Subwoofer</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SM5</strong></td>
<td><strong>SM10</strong></td>
</tr>
<tr>
<td><strong>SM20</strong></td>
<td><strong>SMS118</strong></td>
</tr>
</tbody>
</table>

### Driver Components
- 4 x Bose EMB2S extended-HF neodymium compression driver
- 2 x Bose SM8 neodymium 8-inch woofer
- 1 x Bose LF18 neodymium 18-inch, high-excursion woofer

### Power Handling (Long-term)
- LF (bi-amp): 450 W
- HF (bi-amp): 100 W
- LF (bi-amp): 450 W
- HF (bi-amp): 100 W
- LF (bi-amp): 750 W

### Sensitivity (SPL / 1 W @ 1 m)
- LF: 94 dB (bi-amp)
- HF: 94 dB (bi-amp)
- LF: 106 dB (HF bi-amp)
- HF: 105 dB (HF bi-amp)
- LF: 98 dB (half space)

### Max SPL (SPL / 1 W @ 1 m)
- LF: 121 dB (bi-amp)
- HF: 121 dB (bi-amp)
- LF: 126 dB (HF bi-amp)
- HF: 125 dB (HF bi-amp)
- LF: 127 dB (half space)

### Freq Response (3-dB) & Freq Range (10-dB)
- LF: 69 Hz - 16kHz
- HF: 59 Hz - 18 kHz
- LF: 69 Hz - 16kHz
- HF: 59 Hz - 18 kHz
- LF: 94 dB (half space)

### Nominal Impedance
- LF: 8 Ω
- HF: 6 Ω
- LF: 4 Ω

### Coverage (H x V) & Freq Range (1kHz - 4 kHz Average)
- LF: 70° x 5°
- HF: 100° x 10°
- LF: 100° x 20°
- HF: Omnidirectional

### Dimensions, (H x W x D)
- LF: 270 x 793 x 467 mm
- HF: 282 x 793 x 465 mm
- LF: 303 x 793 x 461 mm
- HF: 540 x 765 x 775 mm
- LF: 21.2 x 30.1 x 18.3 in
- HF: 21.2 x 30.1 x 18.1 in

### Color options
- Black

### Environmental
- IPx4 outdoor

### Installation Technology
- Integrated 3-point quick-pin rigging

### Installation Accessories
- Optional: Rigging frames, pullback bar, waveguides, ground stack bracket, short quick pins
- Optional: Rigging frames, ground stack bracket, short quick pins, SMS118 M20 Speaker Pole Mount Adapter

### Certifications
- —

### Product Codes
- 730999-5540 (Black)
- 730999-8850 (Black)
- 730999-8860 (Black)
- 734302-0110 (Black)
### DIGITAL SIGNAL PROCESSORS

<table>
<thead>
<tr>
<th></th>
<th>CSP-428</th>
<th>CSP-1248</th>
<th>ESP-880A</th>
<th>EX-1280</th>
<th>EX-440C</th>
<th>EX-1280C</th>
<th>EX-1280C</th>
<th>EX-1280C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analog Mic/Line Inputs</td>
<td>4</td>
<td>12</td>
<td>8</td>
<td>12</td>
<td>4</td>
<td>12</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Analog Line Outputs</td>
<td>2</td>
<td>4</td>
<td>8</td>
<td>8</td>
<td>4</td>
<td>4</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Dante Inputs × Outputs</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>64 × 64</td>
<td>64 × 16</td>
<td>64 × 16</td>
<td>16 × 16</td>
<td>16 × 16</td>
</tr>
<tr>
<td>AmpLink Outputs</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>4</td>
<td>8</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>GPIO Logic Ports</td>
<td>—</td>
<td>—</td>
<td>5 × 5</td>
<td>5 × 5</td>
<td>1 × 0</td>
<td>5 × 5</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>DSP Architecture</td>
<td>Fixed configurable</td>
<td>Fixed configurable</td>
<td>Open architecture</td>
<td>Open architecture</td>
<td>Open architecture</td>
<td>Open architecture</td>
<td>Open architecture</td>
<td>Open architecture</td>
</tr>
<tr>
<td>Acoustic Echo Cancellation</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>8 channels</td>
<td>12 channels</td>
<td>12 channels</td>
<td>—</td>
</tr>
<tr>
<td>Configuration Software</td>
<td>Onboard web-based UI</td>
<td>Onboard web-based UI</td>
<td>ControlSpace Designer</td>
<td>ControlSpace Designer</td>
<td>ControlSpace Designer</td>
<td>ControlSpace Designer</td>
<td>ControlSpace Designer</td>
<td>ControlSpace Designer</td>
</tr>
<tr>
<td>Dimensions (Rack Height, H × W × D)</td>
<td>1RU 44 × 483 × 215 mm 1.7 × 19.0 × 8.5 in</td>
<td>1RU 44 × 483 × 215 mm 1.7 × 19.0 × 8.5 in</td>
<td>1RU 44 × 483 × 215 mm 1.7 × 19.0 × 8.5 in</td>
<td>1RU 44 × 483 × 282 mm 1.7 × 19.0 × 11.1 in</td>
<td>1RU 44 × 483 × 282 mm 1.7 × 19.0 × 11.1 in</td>
<td>1RU 44 × 483 × 282 mm 1.7 × 19.0 × 11.1 in</td>
<td>1RU 44 × 483 × 282 mm 1.7 × 19.0 × 11.1 in</td>
<td></td>
</tr>
</tbody>
</table>
### POWER AMPLIFIERS

<table>
<thead>
<tr>
<th>FreeSpace</th>
<th>PowerSpace</th>
<th>PowerSpace+</th>
</tr>
</thead>
<tbody>
<tr>
<td>IZA 250-LZ</td>
<td>P4300A</td>
<td>P4150+</td>
</tr>
<tr>
<td>IZA 190-HZ</td>
<td>P2600A</td>
<td>P4300+</td>
</tr>
<tr>
<td>IZA 2120-LZ</td>
<td>P21000A</td>
<td></td>
</tr>
<tr>
<td>IZA 2120-HZ</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Product Codes

- **IAA 250-LZ**
  - 34487-1440 (240V US)
  - 34487-1441 (100V JP)
  - 34487-1444 (240V AU)

- **IAA 190-HZ**
  - 34487-1430 (240V US)
  - 34487-1431 (100V JP)
  - 34487-1434 (240V AU)

- **IAA 2120-LZ**
  - 34487-1420 (240V US)
  - 34487-1421 (100V JP)
  - 34487-1424 (240V AU)

- **IAA 2120-HZ**
  - 34487-1410 (240V US)
  - 34487-1411 (100V JP)
  - 34487-1414 (240V AU)

- **IAA 2120-LZ**
  - 34487-1420 (240V US)
  - 34487-1421 (100V JP)
  - 34487-1424 (240V AU)

- **IAA 2120-HZ**
  - 34487-1410 (240V US)
  - 34487-1411 (100V JP)
  - 34487-1414 (240V AU)

### Unbalanced Inputs
- 2 × stereo RCA
- 2 × 8 channels, RJ-45
- 8 channels, RJ-45

### Balanced Inputs
- 1 × XLR/1/4-in TRS
- 2 × Euroblock
- 2 × 45 × 214 × 310 mm

### Additional Inputs
- Page: 1 × balanced Euroblock
- Auxiliary: 1 × 1/8-in TRS
- Auxiliary: 1 × balanced Euroblock
- Auxiliary: 1 × unbalanced Euroblock

### Outputs
- 2 × terminal block
- 2 × 120 W
- 2 × 300 W
- 2 × 600 W

### Onboard Signal Processing
- Analog: Input gain, output levels, routing, and selectable EQ presets
- Analog: Volume/source selection, EQ, tone controls, and paging/auxiliary routing options with selectable EQ presets
- Analog: Volume/source selection, EQ, tone controls, and paging/auxiliary routing options with selectable EQ presets

### Control
- Power, input select, tone controls, gain, level, mode
- DIP switch, EQ preset selector, page mic
- Microphone gain, output trims

### User Controls Supported
- CC-1, CC-2
- CC-1, CC-2
- CC-1, CC-2
- CC-1, CC-2

### Power, LZ @ 8 Ω
- 2 × 25 W
- 2 × 60 W
- 4 × 100 W
- 2 × 600 W
- 2 × 1000 W
- 4 × 150 W
- 4 × 300 W

### Power, HZ @ 100/70V
- 1 × 90 W
- 2 × 120 W
- 4 × 300 W
- 2 × 600 W
- 2 × 1000 W
- 4 × 150 W
- 4 × 300 W

### AmpLink
- 8 channels, RJ-45
- 8 channels, RJ-45
- 8 channels, RJ-45

### Dante
- 8 channels, RJ-45

### Dimensions (Rack Height, H x W x D)
- 1RU × half-rack 19 × 483 × 324 mm
- 1RU × half-rack 19 × 483 × 324 mm
- 1RU × half-rack 19 × 483 × 324 mm
- 1RU × half-rack 19 × 483 × 324 mm

### Digital: SmartBass processing, routing, level
- Digital: SmartBass processing, routing, level
- Digital: SmartBass processing, routing, level
- Digital: SmartBass processing, routing, level
- Digital: SmartBass processing, routing, level
## POWER AMPLIFIERS

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4 × Euroblock</td>
<td>4 × Euroblock</td>
<td>4 × Euroblock</td>
<td>8 × Euroblock</td>
<td>8 × Euroblock</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Expansion Slot</td>
<td>—</td>
<td>—</td>
<td>1 slot, 4–24 channels, card-dependent</td>
<td>1 slot, 4–24 channels, card-dependent</td>
<td>1 slot, 4–24 channels, card-dependent</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outputs</td>
<td>4 × Euroblock</td>
<td>4 × Euroblock</td>
<td>Configurable 1–4 outputs, Euroblock</td>
<td>Configurable 2–8 outputs, Euroblock</td>
<td>Configurable 2–8 outputs, Euroblock</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Control</td>
<td>Power, output attenuators, integrated DSP ControlSpace Designer software</td>
<td>Power, output attenuators, integrated DSP ControlSpace Designer software</td>
<td>LCD, ControlSpace Designer software</td>
<td>LCD, ControlSpace Designer software</td>
<td>LCD, ControlSpace Designer software</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer Connection</td>
<td>—</td>
<td>—</td>
<td>USB; Ethernet, RJ-45</td>
<td>USB; Ethernet, RJ-45</td>
<td>USB; Ethernet, RJ-45</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>User Controls Supported</td>
<td>CC-1D, CC-2D, CC-3D</td>
<td>CC-1D, CC-2D, CC-3D</td>
<td>CC-1D, CC-2D, CC-3D</td>
<td>CC-1D, CC-2D, CC-3D</td>
<td>CC-1D, CC-2D, CC-3D</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power, LZ @ 8/4 Ω</td>
<td>4 × 100 W @ 4/8 Ω</td>
<td>4 × 150 W @ 4/8 Ω</td>
<td>4 × 500 W @ 4/8 Ω</td>
<td>4 × 500 W @ 4/8 Ω</td>
<td>4 × 500 W @ 4/8 Ω</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power, HZ @ 100/70V</td>
<td>4 × 100 W @ 70/100V</td>
<td>4 × 150 W @ 70/100V</td>
<td>8 × 250 W @ 4/8 Ω</td>
<td>8 × 250 W @ 4/8 Ω</td>
<td>8 × 250 W @ 4/8 Ω</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dante</td>
<td>4 channels, RJ-45</td>
<td>4 channels, RJ-45</td>
<td>8 × 8 channels, RJ-45, with card</td>
<td>8 × 8 channels, RJ-45, with card</td>
<td>8 × 8 channels, RJ-45, with card</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>1RU 44 × 483 × 414 mm 1.7 × 19.0 × 16.3 in</td>
<td>1RU 44 × 483 × 414 mm 1.7 × 19.0 × 16.3 in</td>
<td>2RU 88 × 483 × 525 mm 3.5 × 19.0 × 20.7 in</td>
<td>2RU 88 × 483 × 525 mm 3.5 × 19.0 × 20.7 in</td>
<td>2RU 88 × 483 × 525 mm 3.5 × 19.0 × 20.7 in</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>