

# DESIGNMAX REFERENCE GUIDE

|   | Full Range Voice / Background Music   |   |   |  | Premium Background Music / Foreground Music                                       |   |  |   |  |  | Live Sound Reinforcement  |  | Sub   |   |   |
|---|---|---|---|--|---|---|--|---|--|--|---|--|---|---|---|
|   | DM2C-LP   | DM3C  | DM3P  | DM3SE  | DM5C  | DM5P  | DM5SE  | DM6C  | DM6PE  | DM6SE  | DM8C  | DM8S   | DM8C-SUB  | DM10P-SUB   | DM10S-SUB   |
|   |   |   |   |  |   |   |  |   |  |  |   |  |   |   |   |
| <b>Driver Components</b>                                  | 1 × 2.5-inch full-range   | 1 × 0.75-inch tweeter<br>1 × 3.25-inch woofer                                     | 1 × 3.25-inch woofer  | 1 × 0.75-inch tweeter<br>1 × 3.25-inch woofer  | 1 × 1-inch tweeter<br>1 × 5.25-inch woofer  | 1 × 5.25-inch woofer  | 1 × 1-inch tweeter<br>1 × 5.25-inch woofer   | 1 × 1.25-inch tweeter<br>1 × 6.5-inch woofer                                      | 1 × 6.5-inch woofer  | 1 × 1.25-inch tweeter<br>1 × 6.5-inch woofer   | 1 × 1-inch comp driver<br>1 × 8-inch woofer                                       | 1 × 1-inch comp driver<br>1 × 8-inch woofer  | 1 × 8-inch woofer   | 1 × 10-inch woofer  | 1 × 10-inch woofer  |
| <b>Power Handling (Long-term)</b>                         | 20 W  | 30 W  | 30 W  | 30 W   | 60 W  | 60 W  | 60 W   | 125 W   | 125 W  | 125 W  | 150 W   | 150 W  | 180 W   | 300 W   | 300 W   |
| <b>Sensitivity (SPL / 1 W @ 1 m)</b>                      | 84 dB   | 83 dB   | 84 dB   | 86 dB  | 87 dB   | 87 dB   | 89 dB  | 88 dB   | 89 dB  | 90 dB  | 91 dB   | 93 dB  | 89 dB   | 85 dB   | 90 dB   |
| <b>Max SPL (SPL / 1 W @ 1 m)</b>                          | 97 dB   | 98 dB   | 99 dB   | 101 dB   | 105 dB  | 105 dB  | 107 dB   | 109 dB  | 110 dB   | 111 dB   | 113 dB  | 115 dB   | 112 dB  | 110 dB  | 115 dB  |
| <b>Freq Response (-3 dB)<br/>Freq Range (-10 dB)</b>      | 95 Hz - 18 kHz<br>85 Hz - 19 kHz  | 85 Hz - 19 kHz<br>75 Hz - 20 kHz  | 85 Hz - 20 kHz<br>75 Hz - 20 kHz  | 85 Hz - 20 kHz<br>75 Hz - 20 kHz   | 73 Hz - 17 kHz<br>65 Hz - 20 kHz  | 80 Hz - 20 kHz<br>65 Hz - 20 kHz  | 73 Hz - 17 kHz<br>65 Hz - 20 kHz   | 70 Hz - 20 kHz<br>59 Hz - 20 kHz  | 75 Hz - 20 kHz<br>62 Hz - 20 kHz   | 70 Hz - 20 kHz<br>59 Hz - 20 kHz   | 60 Hz - 20 kHz<br>52 Hz - 20 kHz  | 60 Hz - 20 kHz<br>52 Hz - 20 kHz   | 45 Hz - 117 Hz<br>38 Hz - 155 Hz  | 46 Hz - 108 Hz<br>40 Hz - 125 Hz  | 41 Hz - 108 Hz<br>35 Hz - 125 Hz  |
| <b>Nominal Impedance</b>                                  | 16 Ω in bypass, multiple transformer taps for 70/100V operation; highest tap, 9W  | 8 Ω in bypass, multiple transformer taps for 70/100V operation; highest tap, 25W  | 8 Ω in bypass, multiple transformer taps for 70/100V operation; highest tap, 25W  | 8 Ω in bypass, multiple transformer taps for 70/100V operation; highest tap, 25W                               | 8 Ω in bypass, multiple transformer taps for 70/100V operation; highest tap, 50W  | 8 Ω in bypass, multiple transformer taps for 70/100V operation; highest tap, 50W  | 8 Ω in bypass, multiple transformer taps for 70/100V operation; highest tap, 50W                               | 8 Ω in bypass, multiple transformer taps for 70/100V operation; highest tap, 80W  | 8 Ω in bypass, multiple transformer taps for 70/100V operation; highest tap, 80W   | 8 Ω in bypass, multiple transformer taps for 70/100V operation; highest tap, 80W                               | 8 Ω in bypass, multiple transformer taps for 70/100V operation; highest tap, 80W  | 8 Ω in bypass, multiple transformer taps for 70/100V operation; highest tap, 80W                 | 8 Ω in bypass, multiple transformer taps for 70/100V operation; highest tap, 150W | 8 Ω in bypass, multiple transformer taps for 70/100V operation; highest tap, 150W   | 8 Ω in bypass, multiple transformer taps for 70/100V operation; highest tap, 150W |
| <b>Coverage (H × V, or Conical) 1 kHz - 4 kHz Average</b> | 150° conical  | 135° conical  | 130° conical  | 140° conical   | 130° conical  | 120° conical  | 135° conical   | 120° conical  | 115° conical   | 125° conical   | 135° conical  | 130° conical   | Omnidirectional   | Omnidirectional below 200 Hz  | Omnidirectional   |
| <b>Acoustic Technology</b>                                | —   | Dispersion alignment system   | Dispersion alignment system   | Dispersion alignment system  | Dispersion alignment system   | Dispersion alignment system   | Dispersion alignment system  | Dispersion alignment system   | Dispersion alignment system  | Dispersion alignment system  | Coaxial compression driver & woofer   | Coaxial compression driver & woofer  | —   | —   | —   |
| <b>Dimensions (Ø x total D x ceiling D)</b>               | 198 × 110 × 99 mm<br>7.8 × 4.3 × 3.9 in   | 255 × 154 × 144 mm<br>10.0 × 6.0 × 5.7 in   | 207 × 248 mm<br>8.2 × 9.8 in<br>(Ø × D)   | 232 × 154 × 155 mm<br>9.1 × 6.1 × 6.1 in   | 303 × 205 × 192 mm<br>11.9 × 8.1 × 7.6 in   | 259 × 300 mm<br>10.2 × 11.8 in<br>(Ø × D)   | 286 × 192 × 197 mm<br>11.2 × 7.5 × 7.7 in  | 356 × 239 × 223 mm<br>14.0 × 9.4 × 8.8 in   | 308 × 375 mm<br>12.1 × 14.8 in<br>(Ø × D)  | 340 × 222 × 229 mm<br>13.4 × 8.7 × 9.0 in  | 409 × 255 × 240 mm<br>16.1 × 10.0 × 9.4 in  | 395 × 249 × 255 mm<br>15.6 × 9.8 × 10.0 in   | 409 × 255 × 240 mm<br>16.1 × 10.0 × 9.4 in  | 400 × 383 mm<br>15.7 × 15.1 in<br>(Ø × D)   | 502 × 316 × 323 mm<br>19.8 × 12.5 × 12.7 in                                       |
| <b>Environmental</b>                                      | Indoor  | Indoor  | Indoor  | IP55 outdoor<br>Included aluminum grille   | Indoor  | Indoor  | IP55 outdoor<br>Included aluminum grille   | Indoor  | IP55 outdoor   | IP55 outdoor<br>Included aluminum grille   | Indoor  | Indoor   | Indoor  | Indoor  | Indoor  |
| <b>Installation Technology</b>                            | QuickHold; magnetically attaching grille; minimum bezel; removable logo           | QuickHold; magnetically attaching grille; minimum bezel; removable logo           | Pendant mount via one (1) suspension attachment point and one (1) safety cable attachment point.  | QuickHold; horizontal or vertical installation; repeatable angles  | QuickHold; magnetically attaching grille; minimum bezel; removable logo           | Pendant mount via one (1) suspension attachment point and one (1) safety cable attachment point.  | QuickHold; horizontal or vertical installation; repeatable angles  | QuickHold; magnetically attaching grille; minimum bezel; removable logo           | Pendant mount via one (1) suspension attachment point and one (1) safety cable attachment point  | QuickHold; horizontal or vertical installation; repeatable angles  | QuickHold; magnetically attaching grille; minimum bezel; removable logo           | QuickHold; horizontal or vertical installation; repeatable angles; magnetically attaching grille | QuickHold; magnetically attaching grille; minimum bezel; removable logo           | Pendant mount via one (1) suspension attachment point and one (1) safety cable attachment point.  | QuickHold; horizontal or vertical installation                                    |
| <b>Installation Accessories</b>                           | Included: tile bridge, hole template<br>Optional: rough-in pan pack (for 6 units) | Included: tile bridge, hole template<br>Optional: rough-in pan pack (for 6 units) | Included: one (1) 4.5 meter (15 foot) Gripple adjustable suspension cable system, four (4) cable ties<br><br>Optional: Threaded Rod Adapter, Conduit Adapter, Gripple Pendant Suspension Cable Pair kit | Included: wall- & ceiling-mount U-bracket<br>Optional: wall-mount pan-&-tilt bracket, Ceiling Mount Bracket S2 | Included: tile bridge, hole template<br>Optional: rough-in pan pack (for 6 units) | Included: one (1) 4.5 meter (15 foot) Gripple adjustable suspension cable system, four (4) cable ties<br><br>Optional: Threaded Rod Adapter, Conduit Adapter, Gripple Pendant Suspension Cable Pair kit | Included: wall- & ceiling-mount U-bracket<br>Optional: wall-mount pan-&-tilt bracket, Ceiling Mount Bracket S2 | Included: tile bridge, hole template<br>Optional: rough-in pan pack (for 6 units) | Included: one (1) 4.5 meter (15 foot) Gripple adjustable suspension cable system, four (4) cable ties, (1) weather resistant input cover<br><br>Optional: Threaded Rod Adapter, Conduit Adapter, Gripple Pendant Suspension Cable Pair kit | Included: wall- & ceiling-mount U-bracket<br>Optional: wall-mount pan-&-tilt bracket, Ceiling Mount Bracket S2 | Included: tile bridge, hole template<br>Optional: rough-in pan pack (for 6 units) | Included: wall- & ceiling-mount U-bracket<br>Optional: wall-mount pan-&-tilt bracket             | Included: tile bridge, hole template<br>Optional: rough-in pan pack (for 6 units) | Included: one (1) 4.5 meter (15 foot) Gripple adjustable suspension cable system, four (4) cable ties<br><br>Optional: Threaded Rod Adapter, Conduit Adapter, Gripple Pendant Suspension Cable Pair kit | Included: wall- & ceiling-mount U-bracket   |
| <b>Certifications</b>                                     | UL 1480A, UL 2043   | UL 1480A, UL 2043   | UL-1480A, S5591/UL Listed, NFPA70 & NFPA90-A, CE compliant, UL 2239 for suspension cable  | UL 1480A   | UL 1480A, UL 2043   | UL-1480A, S5591/UL Listed, NFPA70 & NFPA90-A, CE compliant, UL 2239 for suspension cable  | UL 1480A   | UL 1480A, UL 2043   | UL-1480A, S5591/UL Listed, NFPA70 & NFPA90-A, CE compliant, UL 2239 for suspension cable   | UL 1480A   | UL 1480A, UL 2043   | UL 1480A   | UL 1480A, UL 2043   | UL-1480A, S5591/UL Listed, NFPA70 & NFPA90-A, CE compliant, UL 2239 for suspension cable  | UL 1480A  |
| <b>Product Codes</b>                                      | 815011-0110 (Black, Pair)<br>815011-0210 (White, Pair)                            | 829708-0110 (Black, Pair)<br>829708-0210 (White, Pair)                            | 841165-0110 (Black, Pair)<br>841165-0210 (White, Pair)  | 829712-0110 (Black, Pair)<br>829712-0210 (White, Pair)   | 829683-0110 (Black, Pair)<br>829683-0210 (White, Pair)                            | 841166-0110 (Black, Pair)<br>841166-0210 (White, Pair)  | 829705-0110 (Black, Pair)<br>829705-0210 (White, Pair)   | 829679-0110 (Black, Pair)<br>829679-0210 (White, Pair)                            | 841168-0110 (Black, Pair)<br>841168-0210 (White, Pair)   | 829682-0110 (Black, Pair)<br>829682-0210 (White, Pair)   | 802080-0110 (Black)<br>802080-0210 (White)  | 801332-0110 (Black)<br>801332-0210 (White)   | 829380-0110 (Black)<br>829380-0210 (White)  | 835265-0110 (Black)<br>835265-0210 (White)  | 831856-0110 (Black)<br>831856-0210 (White)  |