



# WIDE DISPERSION SPEAKER SYSTEM ZS-F1000 & ZS-F2000 SERIES



*Compact and versatile  
sound reinforcement solutions*

## SPECIFICATIONS

## ZS-F1000 SERIES

| Model No.               | ZS-F1000B                                                                                                                                                                                               | ZS-F1000W                                                                                                                                                                                               | ZS-F1000BM                                                                                                                                                                                              | ZS-F1000WM                                                                                                                                                                                              | ZS-F1000BMWP                                                                                                                                                                                            | ZS-F1000WMWP                                                                                                                                                                                            |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Enclosure Type          | Bass-reflex type                                                                                                                                                                                        |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |
| Power Handling Capacity | 30W (continuous pink noise)<br>90W (continuous program)                                                                                                                                                 |                                                                                                                                                                                                         | —                                                                                                                                                                                                       |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |
| Rated Input             | —                                                                                                                                                                                                       |                                                                                                                                                                                                         | 15W                                                                                                                                                                                                     |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |
| Rate impedance          | 8Ω                                                                                                                                                                                                      |                                                                                                                                                                                                         | 100V line : 670Ω (15w), 2kΩ (5w), 3.3kΩ (3W), 10kΩ (1W)<br>70V line : 330Ω (15w), 670Ω (7.5w), 2kΩ (2.5W), 3.3kΩ (1.5W), 10kΩ (0.5W)                                                                    |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |
| Sensitivity             | 87dB (1W,1m) at installation in 1/2 free sound field                                                                                                                                                    |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |
| Frequency Response      | 85 - 20,000Hz, -10dB at installation in 1/2 free sound field                                                                                                                                            |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |
| Crossover Frequency     | 5kHz                                                                                                                                                                                                    |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |
| Directivity Angle       | Horizontal : 90° ; Vertical : 90°                                                                                                                                                                       |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |
| Speaker Component       | Low Frequency : 10cm (4") cone-type<br>High Frequency : Balanced dome-tweeter                                                                                                                           |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |
| Input Terminal          | Push-in terminal                                                                                                                                                                                        |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |
| Water Protection        | —                                                                                                                                                                                                       |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         | IPX4                                                                                                                                                                                                    |                                                                                                                                                                                                         |
| Operating Temperature   | —                                                                                                                                                                                                       |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         | -10°C to +50°C                                                                                                                                                                                          |                                                                                                                                                                                                         |
| Finish                  | Enclosure : HPS resin, black<br>Punched net : Surface-treated steel plate, black, paint joint bracket, wall bracket : Steel plate, 11.6, black, paint, Speaker bracket: Die-cast aluminum, black, paint | Enclosure : HPS resin, white<br>Punched net : Surface-treated steel plate, white, paint joint bracket, wall bracket : Steel plate, 11.6, white, paint, Speaker bracket: Die-cast aluminum, white, paint | Enclosure : HPS resin, black<br>Punched net : Surface-treated steel plate, black, paint joint bracket, wall bracket : Steel plate, 11.6, black, paint, Speaker bracket: Die-cast aluminum, black, paint | Enclosure : HPS resin, white<br>Punched net : Surface-treated steel plate, white, paint joint bracket, wall bracket : Steel plate, 11.6, white, paint, Speaker bracket: Die-cast aluminum, white, paint | Enclosure : HPS resin, black<br>Punched net : Surface-treated steel plate, black, paint joint bracket, wall bracket : Steel plate, 11.6, black, paint, Speaker bracket: Die-cast aluminum, black, paint | Enclosure : HPS resin, white<br>Punched net : Surface-treated steel plate, white, paint joint bracket, wall bracket : Steel plate, 11.6, white, paint, Speaker bracket: Die-cast aluminum, white, paint |
| Dimensions              | 130(W) x 202 (H) x 131(D) mm                                                                                                                                                                            |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |
| Weight                  | 1.8kg (including the supplied brackets)                                                                                                                                                                 |                                                                                                                                                                                                         |                                                                                                                                                                                                         | 2kg (including the supplied brackets)                                                                                                                                                                   |                                                                                                                                                                                                         |                                                                                                                                                                                                         |
| Accessories             | Speaker bracket x1, Joint bracket x1,Wall bracket x1 Bracket fixing screw x 1set                                                                                                                        |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         | Speaker bracket x 1, Joint bracket x1, Wall bracket x 1<br>Bracket fixing screw x1set, Terminal Cover x1<br>Terminal cover mounting screw x 4                                                           |                                                                                                                                                                                                         |
| Option                  | Board hanger bracket: ZY-BH10B<br>Ceiling mount bracket: ZY-CM10B<br>Cluster bracket: ZY-CL10B                                                                                                          | Board hanger bracket: ZY-BH10B<br>Ceiling mount bracket: ZY-CM10W<br>Cluster bracket: ZY-CL10B                                                                                                          | Board hanger bracket: ZY-BH10B<br>Ceiling mount bracket: ZY-CM10B<br>Cluster bracket: ZY-CL10B                                                                                                          | Board hanger bracket: ZY-BH10B<br>Ceiling mount bracket: ZY-CM10W<br>Cluster bracket: ZY-CL10B                                                                                                          | Speaker mount bracket : YS-60B                                                                                                                                                                          |                                                                                                                                                                                                         |
| Recommended Subwoofer   | HB-1, FB-10, FB-100                                                                                                                                                                                     |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |

## SPECIFICATIONS

## ZS-F2000 SERIES

| Model No.               | ZS-F2000B                                                                                                                                                                                               | ZS-F2000W                                                                                                                                                                                               | ZS-F2000BM                                                                                                                                                                                              | ZS-F2000WM                                                                                                                                                                                              | ZS-F2000BMWP                                                                                                                                                                                            | ZS-F2000WMWP                                                                                                                                                                                            |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Enclosure Type          | Bass-reflex type                                                                                                                                                                                        |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |
| Power Handling Capacity | 60W (continuous pink noise)<br>180W (continuous program)                                                                                                                                                |                                                                                                                                                                                                         |                                                                                                                                                                                                         | —                                                                                                                                                                                                       |                                                                                                                                                                                                         |                                                                                                                                                                                                         |
| Rated Input             | —                                                                                                                                                                                                       |                                                                                                                                                                                                         |                                                                                                                                                                                                         | 60W                                                                                                                                                                                                     |                                                                                                                                                                                                         |                                                                                                                                                                                                         |
| Rated Impedance         | 8Ω                                                                                                                                                                                                      |                                                                                                                                                                                                         |                                                                                                                                                                                                         | 100V line : 170Ω (60w), 330Ω (30W), 670Ω (15W) 3.3kΩ (3W)<br>70V line : 83Ω (60w), 170Ω (30w), 330Ω (15W), 670Ω (7.5W), 3.3kΩ (1.5W)                                                                    |                                                                                                                                                                                                         |                                                                                                                                                                                                         |
| Sensitivity             | 92dB (1W,1m) at installation in 1/2 free sound field<br>93dB (1W,1m) at installation in 1/2 free sound field (with horn adapter)                                                                        |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |
| Frequency Response      | 65 - 20,000Hz, -10dB at installation in 1/2 free sound field                                                                                                                                            |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |
| Crossover Frequency     | 2.5kHz                                                                                                                                                                                                  |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |
| Directivity Angle       | Horizontal : 110° ; Vertical : 100°<br>Horizontal : 80° ; Vertical : 80° (with horn adapter)                                                                                                            |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |
| Speaker Component       | Low Frequency : 20cm (8") cone-type<br>High Frequency : 25mm (1")dome-tweeter                                                                                                                           |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |
| Input Terminal          | Push-in terminal                                                                                                                                                                                        |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |
| Water Protection        | —                                                                                                                                                                                                       |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         | IPX4                                                                                                                                                                                                    |                                                                                                                                                                                                         |
| Operating Temperature   | —                                                                                                                                                                                                       |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         | -10°C to +50°C                                                                                                                                                                                          |                                                                                                                                                                                                         |
| Finish                  | Enclosure : HPS resin, black<br>Punched net : Surface-treated steel plate, black, paint joint bracket, wall bracket : Steel plate, 12.0, black, paint, Speaker bracket: Die-cast aluminum, black, paint | Enclosure : HPS resin, white<br>Punched net : Surface-treated steel plate, white, paint joint bracket, wall bracket : Steel plate, 12.0, white, paint, Speaker bracket: Die-cast aluminum, white, paint | Enclosure : HPS resin, black<br>Punched net : Surface-treated steel plate, black, paint joint bracket, wall bracket : Steel plate, 12.0, black, paint, Speaker bracket: Die-cast aluminum, black, paint | Enclosure : HPS resin, white<br>Punched net : Surface-treated steel plate, white, paint joint bracket, wall bracket : Steel plate, 12.0, white, paint, Speaker bracket: Die-cast aluminum, white, paint | Enclosure : HPS resin, black<br>Punched net : Surface-treated steel plate, black, paint joint bracket, wall bracket : Steel plate, 12.0, black, paint, Speaker bracket: Die-cast aluminum, black, paint | Enclosure : HPS resin, white<br>Punched net : Surface-treated steel plate, white, paint joint bracket, wall bracket : Steel plate, 12.0, white, paint, Speaker bracket: Die-cast aluminum, white, paint |
| Dimensions              | 244(W) x 373 (H) x 235(D) mm                                                                                                                                                                            |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |
| Weight                  | 6.5kg (including the supplied brackets)                                                                                                                                                                 |                                                                                                                                                                                                         |                                                                                                                                                                                                         | 7.4kg (including the supplied brackets)                                                                                                                                                                 |                                                                                                                                                                                                         |                                                                                                                                                                                                         |
| Accessories             | Speaker bracket x1, Joint bracket x1, Wall bracket x 1<br>Bracket fixing screw x 1 set<br>Horn adapter x1, Horn adapter mounting screw x4                                                               |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         | Speaker bracket x1, Joint bracket x1, Wall bracket x 1<br>Bracket fixing screw x1set<br>Horn adaptersx1, Horn adapter mounting screw x4<br>Terminal Coversx1, Terminal cover mounting screw x4          |                                                                                                                                                                                                         |
| Option                  | Ceiling mount bracket: ZY-CM20B<br>Cluster bracket: ZY-CL20B                                                                                                                                            | Ceiling mount bracket: ZY-CM20W<br>Cluster bracket: ZY-CL20B                                                                                                                                            | Ceiling mount bracket: ZY-CM20B<br>Cluster bracket: ZY-CL20B                                                                                                                                            | Ceiling mount bracket: ZY-CM20W<br>Cluster bracket: ZY-CL20B                                                                                                                                            | Speaker mount bracket : SP-131, YS-60B                                                                                                                                                                  |                                                                                                                                                                                                         |
| Recommended Subwoofer   | FB-100, Z-120BFB/ Z-120WFB                                                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |                                                                                                                                                                                                         |

\* Specifications are subject to change without prior notice