

## DSP1580

### Professional Active Line Array Loudspeaker System



#### Description

This professional active line array system delivers outstanding audio performance, leveraging unique advantages in acoustic architecture and phase response. Its point-source design with an integrated crossover ensures natural, refined sound reproduction. The HF driver is coaxially nested at the axis of the LF driver, enabling sound waves to radiate from a single physical point—eliminating phase distortion and image shift common in conventional designs. Even at 20° off-axis, frequency response deviation remains within  $\pm 1.5$  dB, ensuring precise instrument localization, a well-defined soundstage, and stable stereo imaging. The system also incorporates a coaxial driver with a linear horn, achieving high acoustic efficiency and precise directivity control. The horn narrows HF diffusion to a controlled 60° – 90° range, focusing energy forward while minimizing stray reflections and scattering losses.

## Features

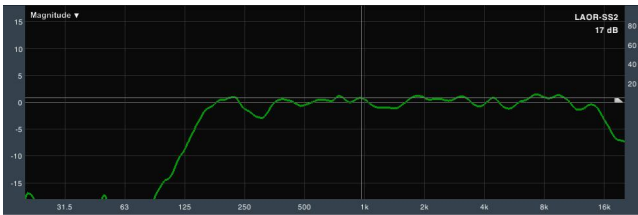
- Compact coaxial design enables precise point-source sound reproduction with accurate imaging.
- Built-in 2 kHz crossover ensures a seamless, natural transition between HF and MF drivers.
- High acoustic efficiency with 140°×30° dispersion pattern for optimal coverage across a wide listening area.
- Features one 1.5" HF driver, one 6.5" MF driver, and two 15" subwoofers for clear, balanced sound with extended low-end punch.
- Delivers a maximum SPL of 132 dB with a sensitivity of 98 dB, providing powerful, dynamic output for any application.

## Specifications

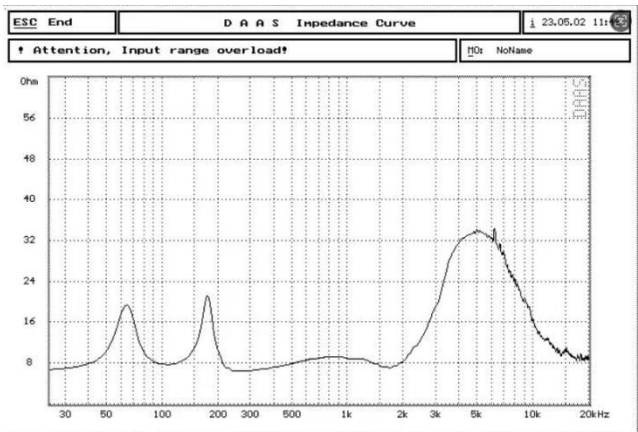
| Model                         | DSP1580                                |
|-------------------------------|----------------------------------------|
| <b>Whole System</b>           |                                        |
| MAX. SPL.                     | 132dB                                  |
| Sensitivity                   | 98dB                                   |
| <b>Full-Range Speaker</b>     |                                        |
| Frequency Response            | 75Hz-20KHz (±3dB)                      |
| Sensitivity                   | 95dB/W (1m)                            |
| MAX. SPL.                     | 120dB MAX.                             |
| Nominal Impedance             | 8Ω                                     |
| Nominal Power                 | 200W                                   |
| Peak Power                    | 800W Peak                              |
| Dispersion (H×V)              | 140°×30°                               |
| Crossover Point               | Built-in crossover 2KHz                |
| System Type                   | Passive 2-way coaxial line array       |
| HF drivers                    | 1×1.5" HF driver (38mm voice coil)     |
| MF drivers                    | 1×6.5" MF driver (38mm voice coil)     |
| Paint                         | Scratch-resistant black speckled paint |
| Dimensions (H×W×D)            | 230×270×230 mm                         |
| Net Weight                    | 5.5kg                                  |
| <b>Dual 15-Inch Subwoofer</b> |                                        |
| Frequency Response            | 30Hz-200Hz (±3dB)                      |
| Sensitivity                   | 95dB/W (1m)                            |
| MAX. SPL.                     | 125dB MAX.                             |
| Nominal Impedance             | 8Ω                                     |
| Nominal Power                 | 1200W                                  |
| Peak Power                    | 4800W                                  |
| Amplifier Power               | 1200W+800W+800W (3 channels)           |
| LF Drivers                    | 2×15" LF drivers (75mm voice coil)     |
| Dimensions (H×W×D)            | 1000×445×455 mm                        |
| Net Weight                    | 44kg                                   |

Technical Parameters

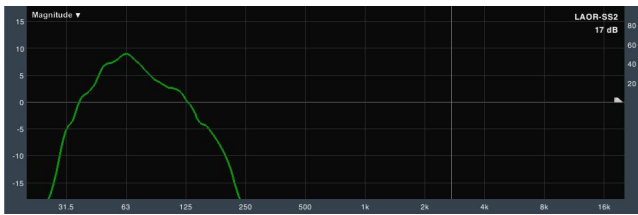
Frequency Response  
(Full-Range Speaker)



Impedance  
(Full-Range Speaker)



Frequency Response  
(Subwoofer)



Impedance  
(Subwoofer)

