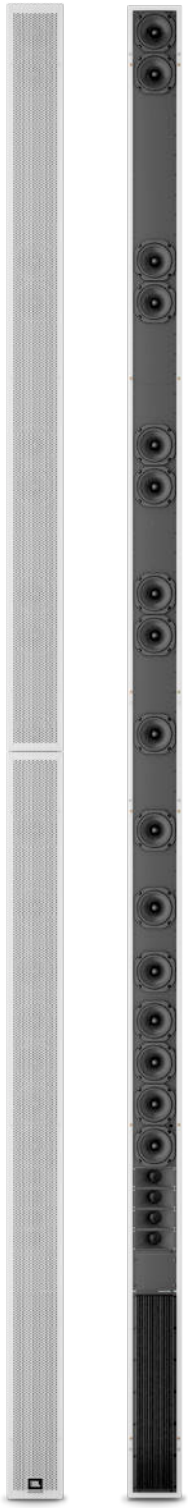
# DSX380D

**Intellivox Series -** Active Beam Shaping, Self Powered, Loudspeaker Array

SPEC SHEET



## KEY FEATURES

- Speech Intelligibility with Expanded Frequency Response
- Slim Unobtrusive Design
- Vertical Beam Shaping (DDS Technology)
- Wide Horizontal Dispersion
- AVC (Automatic Volume Control) via built-in ambient mic
- 32-bit floating point DSP

## HIGHLIGHTS

Part of JBL's Intellivox range of column speakers, DSX380D is an active beam shaping loudspeaker array best suited for demanding acoustic conditions where speech intelligibility and full-range frequency response is required.

It features our highly advanced Digital Directivity Synthesis (DDS) beam shaping algorithm. This allows custom shaping of the directivity pattern for the JBL Intellivox arrays to produce a beam which is tailored to precisely match the audience area within the space in which they are installed. As a result, the sound is aimed directly where it is needed – straight at the listener while avoiding the hard, reflective surfaces.

It features sixteen custom designed, 4" full-range loudspeakers and four 1" dome tweeters driven by sixteen 40W class-D amplifiers. The horizontal coverage is 130° whereas the vertical coverage can be adjusted using DDS algorithm. DSX380D can cover an area of up to 45 m while maintaining an even sound pressure over the audience area.

The onboard sixteen-channel, 32-bit floating-point DSP delivers powerful processing capabilities, including an 8-band parametric equalizer, compensation filters, up to 20 seconds of delay, a limiter, and volume control—equipping installers with all the tools needed for precise system setup. DSX380D also features AVC (Automatic Volume Control) via built-in ambient mic, ensuring a consistent sound level for the listener.

The unit is controlled using our proprietary WinControl software which offers user friendly control of the beam steering parameters, audio processing and surveillance features. Remote monitoring of parameters like status of the DSP, amplifiers and loads, external pilot tone, status of the ambient noise sensing microphone, chassis temperature, ambient temperature, and control for the input section is available.

The individually driven horn loaded dome tweeters in the DSXD units provide unsurpassed high frequency vertical beam control while improving the horizontal coverage and enhancing the subjective sound quality of the system for both speech and music. Its compact array length makes the DSX380D suitable for easy and unobtrusive implementation in even the most architecturally sensitive environment. The low frequency response of the system can be easily extended using a JBL subwoofer system.

The speaker accepts both Analog line level balanced audio and DANTE input with 8 x 8 Audio channels.

The auto ranging power supply is suitable for use across the globe accepting voltages from 115 to 230VAC.

DSX380D has a steel enclosure coated with an epoxy which is available by default in white (RAL9010) and can also be ordered in custom colour.

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## SPEC SHEET

## SPECIFICATIONS

| | |
|---|---|
| **ACOUSTICAL** | |
| Frequency Response (±3 dB)[1, 2]: | 130 - 18k Hz (+/-3 dB) |
| Coverage Pattern: | 130° Horizontal x Adjustable Vertical |
| Max SPL[3]: | 91dB Continuous, 94dB Peak (A-weighted at 30m) |
| Dynamic Range[4]: | >100dB |
| Transducers: | 16 x 4" Full-Range, 4 x 1" horn loaded dome tweeter |
| Typical Throw: | 45m |
| **AUDIO INPUT** | |
| Analog Input Type: | Transformer Balanced Line Level |
| Connectors: | 3-way Phoenix |
| Maximum Peak Input Level: | +19dBV peak (+21.22 dBu) |
| Input Impedance: | 6.8kΩ |
| Digital Input Type: | DANTE |
| Connectors: | Two 8p RJ-45 (Primary & Secondary) |
| **AMPLIFIER** | |
| Type: | Class D |
| Continuous Power: | 16 x 40W RMS (4 Ohm) |
| Peak Power: | 470W |
| **DSP** | |
| Sample Rate: | 48.0 kHz (default) |
| Bit Depth: | 32-bit Floating point |
| Latency[5]: | 3.7 ms |
| A/D, D/A Converter: | 24 bits (128 x oversampling) |
| Signal Processing: | 21 sec (pre-delay)<br>2 x 10 sec (input channel delay)<br>Equalizer and Compensation filtering<br>Volume<br>RMS and Peak limiters on each output<br>Ambient Noise Sensing Autogain (fail-safe)<br>8 x Output filters + Delay Ring buffers |
| **CONTROL** | |
| Network Interface Type: | Ethernet through Dante |
| Connector: | 8p RJ-45 |
| Fault Monitoring[6]: | Failure relay SPDT 125 mA / 24 V |
| Connector: | 2-way Phoenix |
| Fan Control: | For optional external fan (24VDC / 3W max) |
| Connector: | 2-way Phoenix |

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## SPEC SHEET

## SPECIFICATIONS (Cont.)

| | |
|---|---|
| **AC POWER** | |
| **Mains Voltage Range:** | 115V to 230V |
| **Connector:** | 3p IEC |
| **Max mains inrush current:** | 25 A short-time peak (230 V) |
| **Current Draw[7]:** | 84 VA (idle) / 433 VA (male speech STIPA) / 800 VA (full load) |
| **GENERAL** | |
| **Enclosure Material:** | Steel |
| **Colour:** | Enclosure and grill RAL9010 (White)<br>Speaker Baffle RAL9011 (Black) |
| **Dimensions (H x W x D)[8]:** | 3750 x 134 x 92mm (147.6 x 5.3 x 3.6 inch) |
| **Temperature Range:** | 0 to 40 °C (32 - 104 °F) |
| **Net Weight:** | 35 kg (81 lbs) |
| **Shipping Weight:** | 41 kg (90 lbs) |
| **Environmental Standards:** | CE, CSA/UL, CCC<br>Safety EN 62368-1:2014+A11:2017<br>EMC EN 55032:2012/AC:2013 class A<br>EMC EN 55103-2:2009<br>Mains harmonics EN 61000-3-2:2014 |
| **Included Accessories** | Wall Bracket (25 mm); connector set |
| **Optional Accessories** | Swivel Bracket 90°<br>Swivel Bracket 45°<br>Cover Plate<br>Hinge Bracket 90°<br>Cover Box 58 mm<br>Program Set Universal USB |

**Notes:**

1. Measured outside under semi-anechoic 'full-space' conditions with typical filter and delay settings unless stated otherwise.
2. Data is determined from 1/3 octave averaged data measured on-axis. The frequency response of the complete array is depending on the actual signal processing parameters and air absorption (at larger distances).
3. Levels are valid for pink noise (100 to 20k Hz bandwidth) with a crest factor of 3 dB. Default EQ and minimum opening angle setting. 'Continuous' is the RMS level, 'Peak' is the absolute peak level, both determined at the onset of the output limiters.
4. For this measurement the signals at all power amplifier outputs are summed together. Measured as the A-weighed difference (in dB) between the maximum rms level (with pink noise input signal) and the noise output (with no input signal present).
5. Minimum latency due to hardware and frame processing from analogue input to amplifier output.
6. For volt-free operation COM is connected to NC if the device is switched-on and has no failure.
7. Defined as the rms mains current multiplied by the rms mains voltage under normal operating conditions. 'Full load' figures are maximum values measured with a pulsating pink noise input signal.
8. Depth of enclosure only, without mounting brackets.

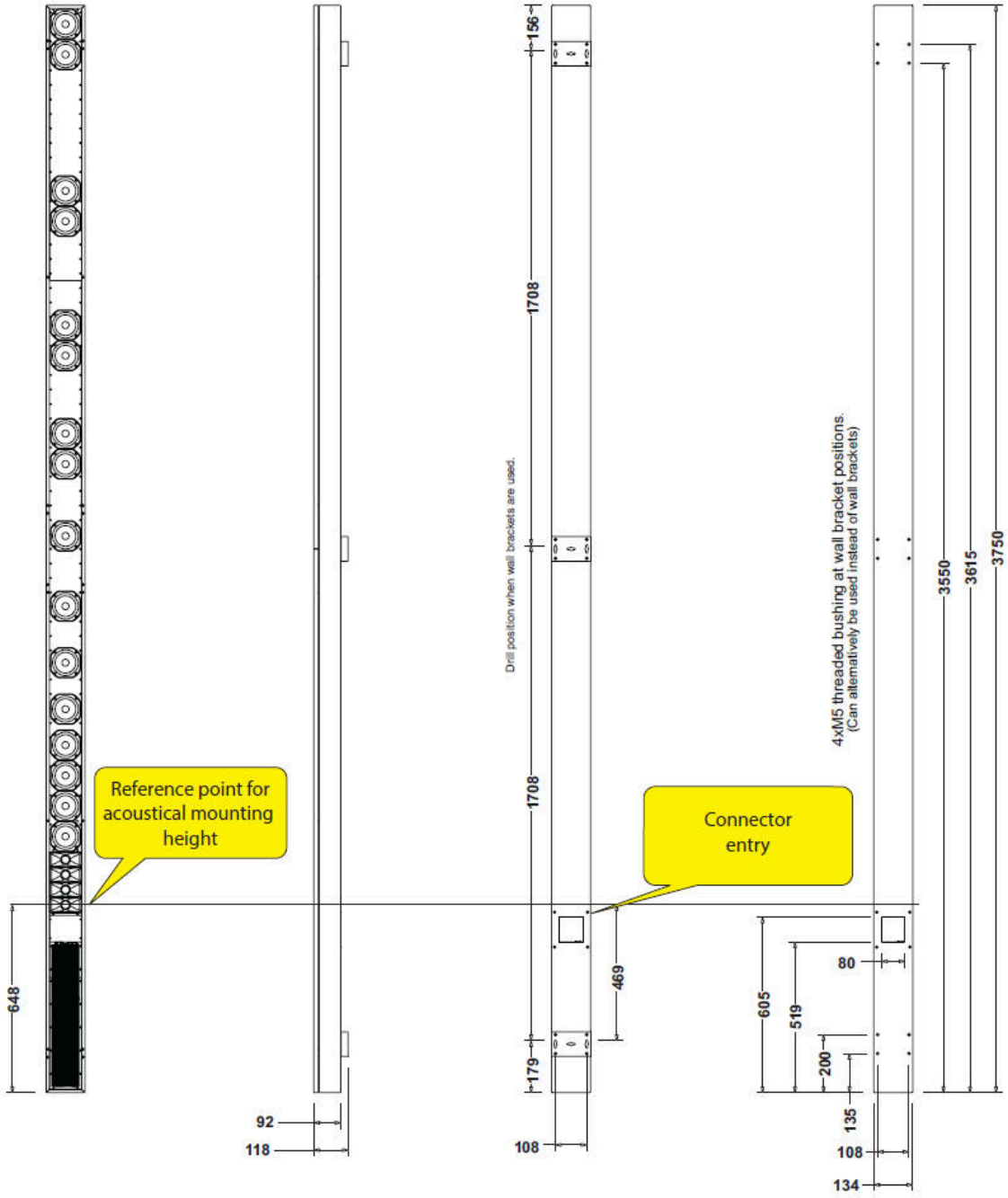
**Note:** SPL values will vary depending upon opening angle, DDA should be used to verify SPL values for each individual installation.

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## DIMENSIONS



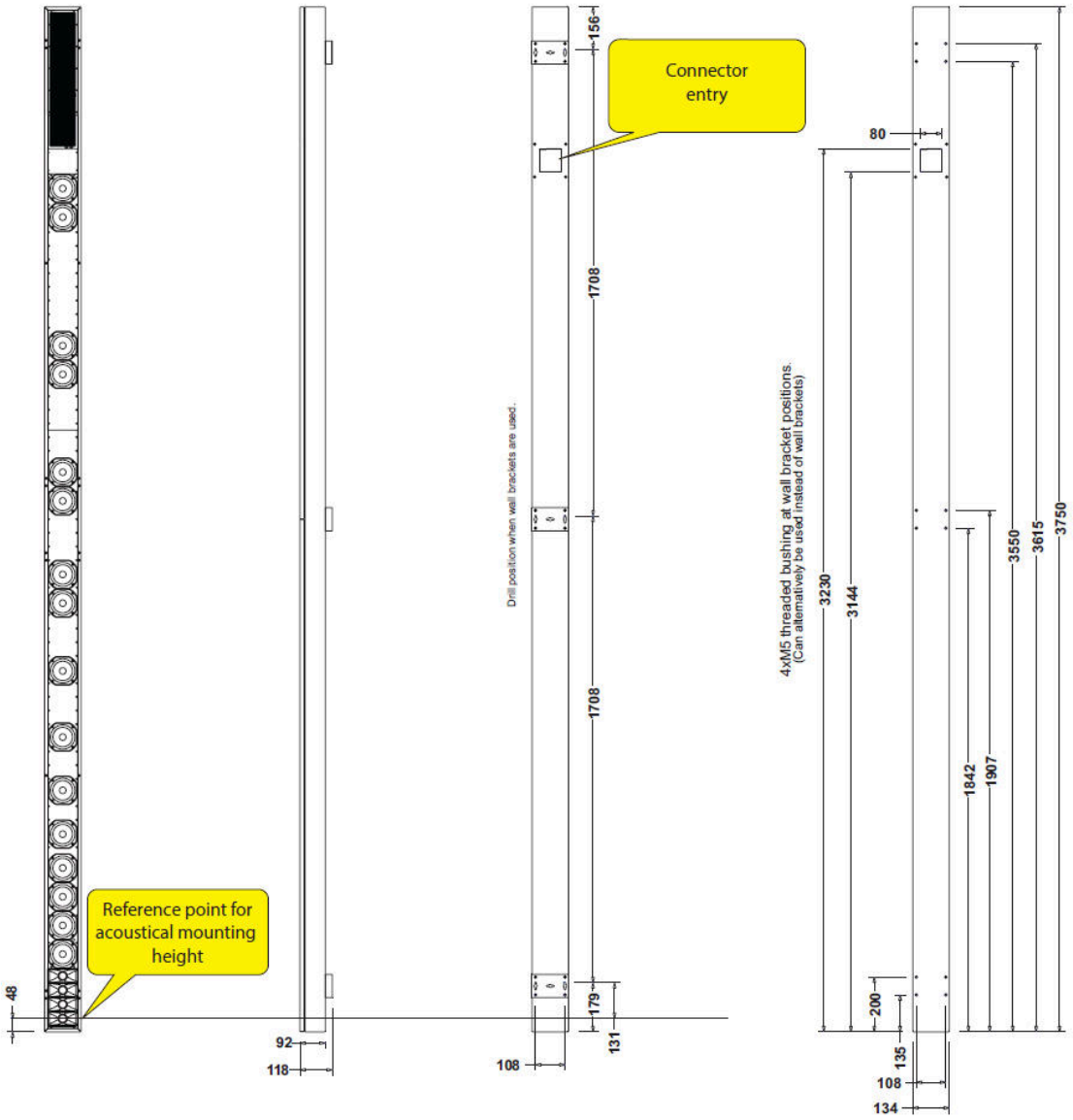

**This drawing is valid for the default 'amp-at-bottom' version - Order SKU: JBL-DSX380D-B**

# DSX380D

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SPEC SHEET

## DIMENSIONS




**This drawing is valid for the 'amp-at-top' version - Order SKU: JBL-DSX380D-T**

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