



# Definition Install DS12i sub TANNOY®



## Product Description

The Definition Install DS12i sub has been designed to underpin a Definition install theatre or media room system with truly remarkable low frequency performance. Massively constructed around 300mm (12.00") professional drive unit, this subwoofer will produce the ultimate soundtrack experience, with spectacular and thunderous bass, yet still be agile enough to maintain finer musical detail with precision and speed.

This 38 litre direct radiating design is robustly constructed MDF enclosure, using 15mm (0.62") for the panels and 36mm (1.41") for the front baffle. Extensive internal bracing minimises panel resonance ensuring a tight and responsive bass performance. Capable of achieving 38Hz and with a sensitivity of 94dB (1W = 2.83V for 8 Ohms), the DS12i sub will deliver an SPL of 126dB peak. Recommended amplifier power is 400 – 800W @ 8 Ohms.

Finished in rugged textured black paint, the enclosure is fitted with two binding posts, eight M10 inserts and four rubber feet.

The DS12i sub is compact enough to bring class leading performance to a wide range of installation applications; from media rooms to home theatre and boardrooms through to high end marine interiors.

## Features

- 1 x 300mm (12.00") high power handling direct radiating bass driver
- Immensely rugged 38 litre MDF enclosure is internally braced, with 15mm (0.62") panels and a 36mm (1.37") front baffle
- Power handling 800W programme
- Sensitivity 94dB (1W = 2.83V for 8 Ohms)
- Rated SPL 126dB peak
- 2 x binding post connectors, 8 x M10 inserts and 4 x rubber feet

## Applications

- Media rooms
- Home theatre
- Boardrooms
- High end marine interiors

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## TECHNICAL SPECIFICATIONS

### System Definition Install DS12i sub

**System Type** Subwoofer - Direct Radiating

**Frequency Range<sup>(1)</sup>** 38Hz

**System Sensitivity (1W @1m) <sup>(2)</sup>** 94dB (1W = 2.83V for 8 Ohms)

#### Power Handling

Average 400W  
Programme 800W  
Peak 1600W

**Recommended Amplifier Power** 400 - 800W @ 8 Ohms

#### Rated Maximum SPL <sup>2</sup>

Average 120dB  
Peak 126dB

**Nominal Impedance** 8 Ohms

**Driver Complement** 1 x 300mm (12.00") Bass driver

**Recommended Crossover** 80Hz - 300Hz, 24dB/octave  
Recommended High-pass filter  
40Hz, 24dB/octave

#### Distortion

**10% Full Power (17.9V)** 2nd Harmonic 3rd Harmonic  
40Hz 0.28% 2.26%  
100Hz 0.29% 0.60%

**1% Full Power (5.6V)** 2nd Harmonic 3rd Harmonic  
40Hz 0.19% 0.39%  
100Hz 0.13% 0.02%

#### Notes:

(1) Average over stated bandwidth. Measured at 1 metre on axis.

(2) Unweighted pink noise input, measured at 1 metre in an anechoic chamber

A full range of measurements, performance data, CLF and Ease™ Data can be downloaded from [www.tannoy.com](http://www.tannoy.com)

Full independent verification of published specifications carried out by NWAA Labs, California can also be obtained from the downloads section of [www.tannoy.com](http://www.tannoy.com)

Tannoy operates a policy of continuous research and development. The introduction of new materials or manufacturing methods will always equal or exceed the published specifications, which Tannoy reserves the right to alter without prior notice. Please verify the latest specifications when dealing with critical applications.

### Construction

**Enclosure** 38 litres, internally braced MDF enclosure with 15mm (0.62" panels and 36mm (1.37") front baffle.

**Finish** Textured black paint.

**Connectors** 2 x Binding posts

**Fittings** 8 x M10 inserts.  
4 x Rubber feet

**Dimensions** 435mm x 370mm x 355mm (H x W x D)  
(17.13" x 14.57" x 13.98") (H x W x D)

**Net Weight** 21kg (46.3lbs)

### Ordering Information

PART NUMBER	MODEL NAME	COLOUR	PACKED QUANTITY
8000 5190	Definition Install DS12i sub	Black	1

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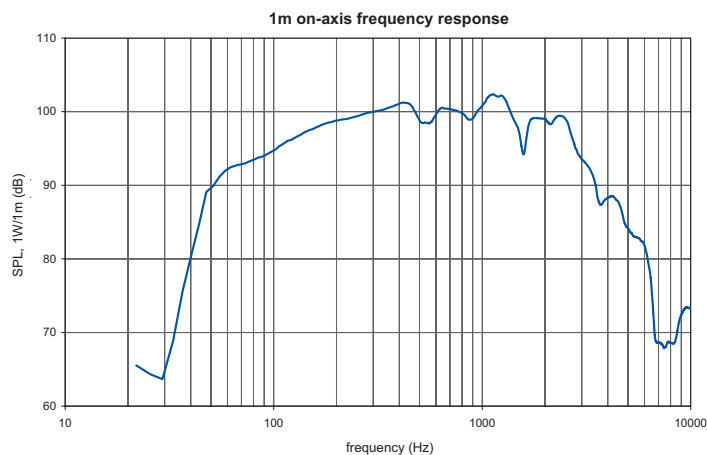
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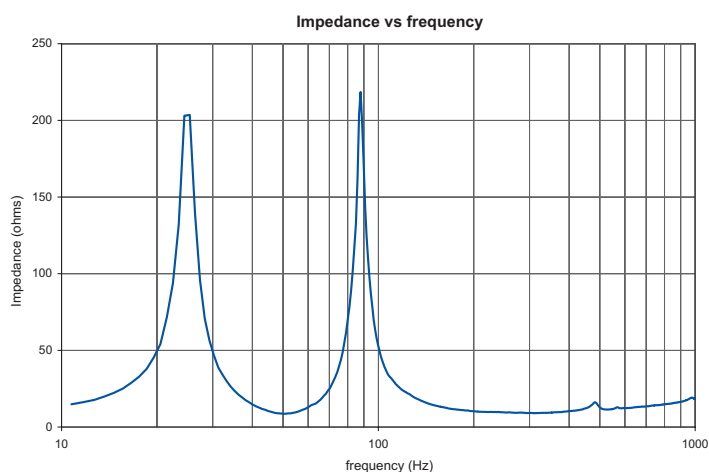
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## PERFORMANCE MEASUREMENTS



FREQUENCY  
RESPONSE



IMPEDANCE

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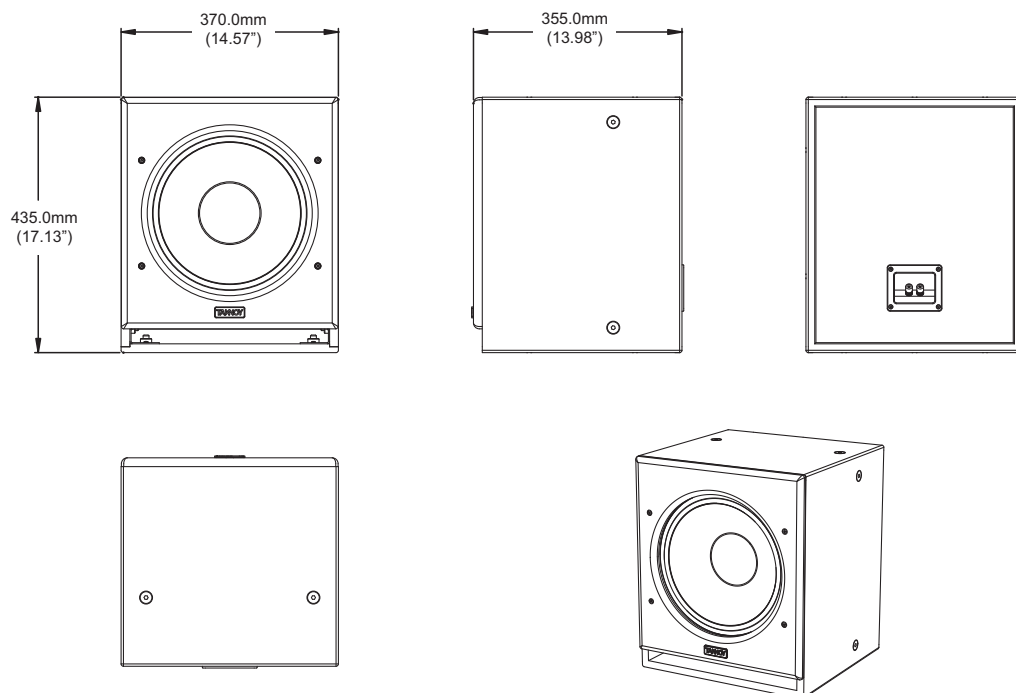
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## DIMENSIONAL SKETCHES



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## Architectural specifications

The bass loudspeaker shall consist of a 300mm (12.00") low frequency transducer mounted within a vented direct radiating enclosure.

Performance of the loudspeaker, without any electronic control shall meet or exceed the following criteria: Frequency response measured at 1 metre on axis with swept sine wave shall be 38Hz. Sensitivity shall be at least 94dB (half space) for 2.83 Volts @ 1 metre and shall be capable of producing a peak output level of 126dB (half space) on axis at 1 metre.

The system shall have a nominal impedance of 8 Ohms and maximum power handling shall be 800 Watts (programme). The enclosure shall be an optimally tuned (38 litre) vented enclosure of MDF construction finished in a wear resistant textured black paint.

Input connectors shall be two binding posts and the enclosure shall be fitted with 8 x M10 flying inserts and 4 x rubber feet.

The enclosure shall not exceed the following dimensions:  
435 x 370 x 355mm or 17.13"x 14.57" x 13.98" (HxWxD)

The bass loudspeaker shall be the Tannoy... Definition Install DS12i sub.

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