

MASS Surround Sound

Product Information Guide

MASS Surround Sound

2ND Generation

All Round Entertainment

The new MASS Surround Sound system is designed to deliver full-scale audio fidelity from compact, elegant speaker cabinets that will augment any interior. Packing plenty of Monitor Audio's acknowledged loudspeaker expertise inside a choice of sophisticated cloth covers, MASS is a discreet, stylish system capable of truly immersive sound.

MASS Surround Sound comprise of:

- 5 x MASS Satellite – Satellite speakers
 - Optional MASS Stands available
 - Optional MASM Speaker Mount available
- 1 x MASS Subwoofer – Subwoofer

MASS Subwoofer



5 x MASS Satellite



MASS Movies



MASS Gaming



MASS Music

MASS Satellite Features

Whether listening to music, a game or a movie soundtrack, the MASS Satellite speaker has the talent to bring your audio to life. Thanks to the beautifully engineered integration of its two drivers, the MASS Surround Sound is an outstanding listen from the deepest bass notes to the crispest treble. Each satellite is subtle and detailed with incredible dispersion and imaging.



3^{1/2}" (89 mm) mid-bass driver with Metal Matrix Polymer (MMP II) cone technology. Advanced FEA simulation optimises cone and motor-unit performance

Close coupling of tweeter and mid-bass driver acts as a point source

Compact cabinet design with curved cabinet – Excellent baffle shape which has rounded edges that acoustically approach a sphere helps to give this speaker excellent off-axis performance and smooth frequency response.

Subwoofer and satellite designed as a system to ensure highest performance. Sealed subwoofer and electronics compliment the satellite leading to exceptional performance and an acoustically invisible subwoofer.

This all combines to improve the performance of the system over a wider set of seating positions

The cabinet design sandwiches a core MDF ring between two glass fibre reinforced ABS halves. This leads to an **exceptionally strong cabinet** and the MDF removes the usual problems that plastic enclosures create

Sealed satellite enclosure helps control the excursion of the mid-bass driver and improves its power handling compared with a ported design which would simply overload at higher power levels optimum locations.

With a Sealed enclosure there is no port to interfere with the crossover between the subwoofer and satellite when setup correctly with an AVR. This leads to exceptional integration of the subwoofer into the system / removing the usual separation occurs between the satellite and subwoofer



3/4" (19 mm) soft dome tweeter with thermal protection, avoiding damage to the tweeter if the speaker is over driven

To access the speaker terminals of the MASS Satellites first detach the back cover. This is a push-fit assembly and has fixing points in each corner



MASS Satellite Features

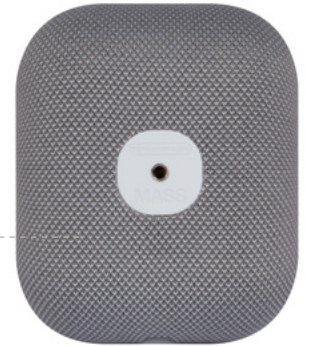
Free standing / Stand mount / Wall mount speakers.

Two-way, sealed cabinet, tuned for wide dispersion and optimal integration with MASS Subwoofer.



Custom-weave cloth finish, unique to Monitor Audio. Exclusively developed to be both acoustically transparent as well as give the feel of a luxury piece of soft furnishing

Rear cover concealing binding posts for a clean look in any home environment



Rigid MDF and fibre reinforced ABS cabinet ensuring a super rigid assembly, free from unwanted vibrations and utilising minimal fixings

Integrated stand-mount point and wall bracket (compatible with MASM bracket)



Compact design, with point-source acoustic alignment for precise audio focus and response

If positioning the MASS satellites on a flat surface such as a TV stand or table, then we recommend placing the supplied adhesive rubber feet to the bottom of the cabinet as illustrated, to prevent movement



MASS Subwoofer Features

Free standing Subwoofer

Designed to augment the deepest bass of Hollywood soundtracks, state-of-the-art games and music alike, the MASS Subwoofer delivers reinforced bass. It's also compact enough to be discreetly positioned in a room.



120 W of Class D amplification for efficient, powerful performance

Compact sealed enclosure, braced with rigid MDF with extra reinforced baffle to ensure no unwanted vibrations from the drivers affect the sound.

Optimised to crossover with the MASS Satellite, offering the highest levels of integration ensuring that the audio is presented as one and not as a satellite plus subwoofer

Unique FEA optimised 8" (203 mm) long-throw driver with Metal Matrix Polymer (MMP II) driver to deliver deep, solid, rapid and well controlled low frequency presence

Custom-weave cloth finish, unique to Monitor Audio. Exclusively developed to be both acoustically transparent as well as give the feel of a luxury piece of soft furnishing



MASS Subwoofer – Amplifier Connections and Controls

EQ Switch tailors the bass response of the subwoofer to your tastes.

3 pre-set modes ('Music', 'Movie', 'Impact') for superlative acoustics

Movie mode provides a relatively flat response down to 35 Hz. Music mode is -2 dB down on Movie mode but goes lower, all the way down to 30 Hz. Impact mode is +3 dB up on Movie mode and comfortably goes down to 40 Hz allowing the subwoofer to reach it's maximum SPL

Digital Sound Processing for perfect filter characteristics

Advanced limiters guarantee controlled, authentic sound

Volume Control

Figure 8 Mains Power Connector

Power Mode Switch with 'On'-'Auto'

Power LED

'Standby' mode will illuminate Red
'On' mode will illuminate Green.

Crossover Frequency Control

only operates when connected to the stereo inputs. This control feature is used to set the upper frequency limit (low pass) of the MASS Subwoofer.

The crossover control should be set in accordance with the MASS Satellites. We would recommend setting the crossover to 150 Hz but experimentation is advisable

RCA Line Level Inputs (Stereo Left & Right)

LFE Input (RCA Type)

This input is to be used when connecting the subwoofer to a AV receiver. When using the LFE input, the crossover control is not used. This is due to the crossover function being controlled and set by the AV amplifier/ processor when it's set up procedure is run



12 Volt Trigger Input ~ Centre Pin = +12 Vdc

For external power control from AV amplifier/ receiver to the subwoofer. Monitor Audio recommend using this function and a lead is supplied. This 12 V signal is generated by the AV amplifier/ receiver and tells the subwoofer to turn on from 'Standby' mode. This allows a more accurately controlled auto 'On' / 'Off' function, and is far more energy efficient. When using the 12 V trigger, the Power Mode Switch must be in the AUTO position, for it to function correctly.

Phase Control Switch is used to synchronise any delay between the MASS Subwoofer and main/satellite speakers.

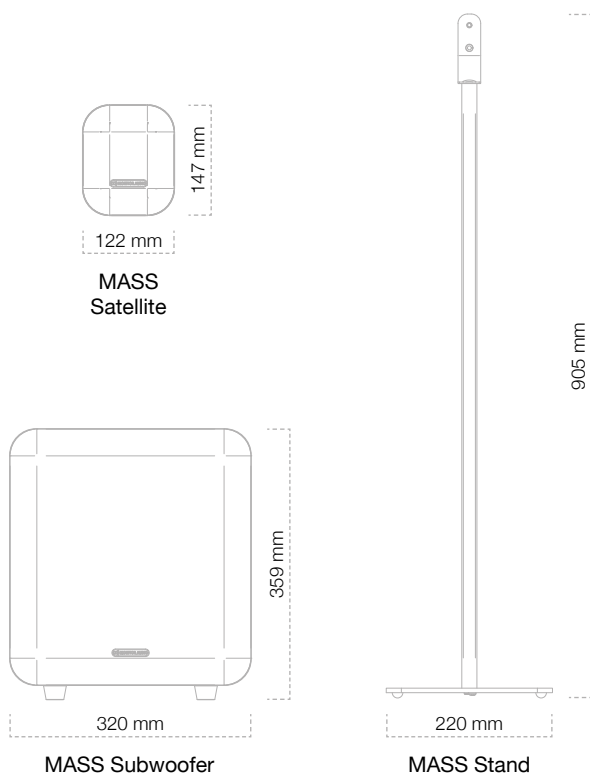
Do note that in most cases the phase control switch should be set to 0 degrees, especially when using a digital AV processor or AV receiver amplifier

Specifications

| Model | MASS Satellite |
|--|--|
| System Format | 2-Way |
| Frequency Response (-6 dB) | 105 – 34,000 Hz |
| Sensitivity (1W@1M) | 80 dB |
| Nominal Impedance | 8 ohms |
| Minimum Impedance | 4.4 ohms @ 300 Hz |
| Maximum SPL (dBA) | 98 dB (Pair) |
| Power Handling (RMS) | 30 W |
| Power Handling (RMS) With Amplifier Crossover (150 Hz) | 70 W |
| Recommended Amplifier Requirements (Watts) | 25 – 100 W |
| Bass Alignment | Sealed Enclosure |
| Crossover Frequency | 3.0 kHz |
| Drive Unit Complement | 1 x 3 ¹ / ₂ " (89 mm) MMP II Mid/Bass Driver 1 x 3/4" (19 mm) Soft Dome Tweeter |
| External Dimensions Including Grille and Terminals (H x W x D) | 147 x 122 x 107 mm 5 ¹³ / ₁₆ x 4 ¹³ / ₁₆ x 4 ³ / ₁₆ " |
| Weight (each) | 1.12 kg / 2 lb 8 oz |
| Finishes | Midnight (black/blue) Mist (white/grey) |

| Model | MASS Stands |
|---|--|
| External Dimensions including Feet (H x W x D) | 905 x 220 x 220 mm 35 ³ / ₈ x 8 ¹¹ / ₁₆ x 8 ¹¹ / ₁₆ " |
| External Dimensions including Mounted Satellite (H x W x D) | 964 x 220 x 220 mm 37 ¹⁵ / ₁₆ x 8 ¹¹ / ₁₆ x 8 ¹¹ / ₁₆ " |
| Finishes | Black White |

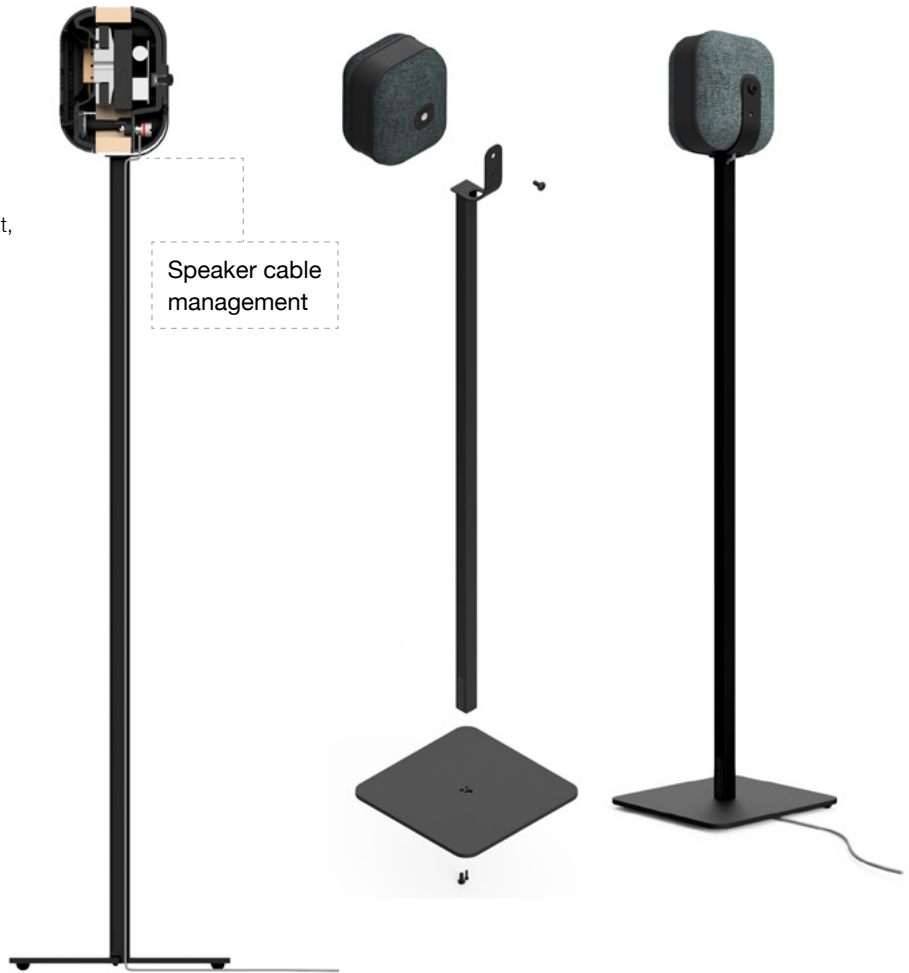
| Model | MASS Subwoofer |
|---|--|
| System Format | Sealed cabinet, 15 mm MDF construction with 18 mm base and front baffle. Internally braced with sealed amplifier compartment |
| Lower Frequency Limit | -3 dB @ 35 Hz / -10 dB @ 30 Hz (Free Field) Default preset: Music, -3 dB @ 34 Hz / -10 dB @ 25 Hz (In Room) |
| Upper Frequency Limit | -6 dB @ 150 Hz |
| Drive Unit Complement | 1 x 8" (200 mm) MMP II Subwoofer driver featuring a 2" long throw voice coil |
| Linear Driver Excursion | 15 mm Peak to Peak |
| Amplifier Output | 120 W |
| Amplifier Classification | Class D with high current Switch mode power supply (SMPSU) |
| Phase Control | 0 Degrees & 180 Degree pure Invert |
| Low Pass Filter Alignment | 2nd order (12 dB/Octave), from 50 Hz to 150 Hz |
| Auto Sensing Input Requirements | Line Level >3 mV Auto Standby feature after 20 minutes |
| Audio Input/Outputs | LFE unbalanced input RCA Stereo unbalanced inputs RCA |
| Connection | 12 V Trigger in (3.5 mm mono mini-jack, 4v threshold) |
| Electrical Certifications | CE / CB/ ETL / Fcc / CCC/ ErP (Energy saving compliant) |
| Mains Input Voltage | 100 – 240 Vac, 50/60 Hz |
| Power Consumption | Maximum 130 W, Standby <0.5 W (ErP compliance) |
| Fuse Type | 20 mm T8AL 250VAC |
| Weight (Unpacked) | 10.2 kg / 22 lb 8 oz |
| External Dimensions (Including Amp, Drivers, Terminals & Feet (H x W x D) | 359 x 320 x 350 mm 14 ¹ / ₈ x 12 ⁵ / ₈ x 13 ³ / ₄ " |
| Finishes | Midnight (black/blue) Mist (white/grey) |



MASS Stands (Optional)

The new MASS stand is designed to reinforce the contemporary look of the MASS range and enable the MASS Satellite to perform at the perfect height. It features a precision-cut steel base and pole, an integrated bracket to allow easy speaker attachment, and a cable management system to conceal the speaker cable.

Finishes: Black / White



MASM Speaker Mount (Optional)

The MASS Satellite speakers are compatible with the MASM speaker wall mount, please refer to monitoraudio.com for further details.

Finishes: Black / White / Silver



Who is Monitor Audio?

Monitor Audio is a wholly British owned and managed loudspeaker designer and manufacturer. Since 1972 it has been at the leading edge of loudspeaker design and technology, perfecting the implementation of metal drivers. It is renowned for exemplary speaker cabinet construction and finish.

Designed and Engineered in the United Kingdom.

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