# ISM 112

The Outline iSM 112 is a self-powered, DSP-controlled, full-range loudspeaker designed primarily for stage monitoring applications, whose internal amplifiers deliver 750 W and 370 W into the LF and HF sections respectively. Low frequencies are reproduced by a single 12″ reflex-loaded transducer, whilst the HF utilises a 1.4″ throat compression driver fitted with a 2.5″ titanium diaphragm, exiting the cabinet via a folded wave guide. The HF folded wave guide (an Outline patent) provides tight and consistent control of the emitted frequencies in both the horizontal and vertical planes, achieving the defined pattern control that is necessary in professional floor monitors, whilst still contained within a compact cabinet design.Outline iSM 112 features an asymmetrical design providing dual floor-mount or installation angles. Constructed using high quality void-free 15 mm Baltic birch laminate, the external dimensions are extremely compact, particularly the vertical height which is just 35.5 cm (14 inches). This very low profile considerably reduces the visual impact when the enclosure is positioned between performers and audience. The cabinet has eight mounting points for installation purposes, plus two integral recessed handles on the cabinet to facilitate easy handling. The black outer finish is in high quality scratch-resistant waterproof black paint, and the front of the cabinet is fitted with a vibration-free painted steel mesh to provide audio-transparent protection for the components.

**Cena:**
**Kategorie:** Audio, Scena, Głośniki, Instalacje AV, Nagłośnienie obiektów





## GALLERY IMAGES





## OPIS

The iSM 112 delivers a usable frequency response of 68 Hz – 18 kHz at -10 dB. More importantly for its main application, the iSM 112 also delivers an impressively linear response of just +/- 3 dB between 80 Hz and 15.5 kHz, and an extremely linear phase response of just ± 45° between 500 Hz and 16 kHz. When floor-mounted and driven at peak amplifier power the iSM 112 will deliver a maximum SPL of 139 dB at one metre.

**UNIQUE CONTROL POSSIBILITIES**

The iSM 112 is also equipped with Outline’s proprietary iMode Technology. Utilised extensively throughout the Outline range, iMode is a truly ‘intelligent’ digital loudspeaker control platform which combines advanced digital signal processing and TCP/IP protocol to provide comprehensive control capabilities and a huge choice of interface devices. Users have real-time control over a series of parameter (levels, delay, eq’s, shelving filters) and can also select one of the four presets (three of which are adjustable by the user). iMode also allows the user to monitor performance parameters throughout the system (including VU-meters, selected preset, clip and limiter status, amplifier overheating and protection) by using an iPad with dedicated Outline app. With standard IP-based communication, the iMode platform is truly future-proof, offering control via netbook, smartphone, and many devices yet to appear. iMode operates on a Linux operating system with an Outline-customised kernel, chosen for its extreme stability and compatibility, and providing a robust foundation for iMode’s advanced functions.

## Features

- Self-powered 1 x 12″ LF plus 1 x 2.5″ HF dual-angle wedge monitor loudspeaker
- Very low physical profile combined with extremely high-level audio output – only 35.5 cm (14 inches) high yet can deliver up to 139 dB SPL
- Compact and lightweight, just 25 kg (55.1 lb) including bi-amped processing and amplification
- Patented folded wave guide provides tight pattern control, maximising gain before feedback
- Mirrored LED arrays on both sides of the cabinet provide visual status data
- Controlled by Outline iMode Technology, our proprietary multi-control platform, which uses TCP/IP protocol to provide real time control over all system parameters
- Extremely sturdy, non-resonant cabinet, fitted with eight mounting points which can be used to attach flying rings or wheels
- Internal PWM amplification eliminates need for heavy and space-hungry amplifier racks
- Four presets (three of which are adjustable by the user) selectable via a button on the LED panel or via remote app
- Controllable via dedicated iPad app

PERFORMANCE SPECIFICATIONS

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|---|---|
| Frequency Response (-10 dB) | 68 Hz – 18 kHz |
| Nominal Dispersion | 40° x 60° (H x V) |
| On-axis angle | 65° related to ground |
| Power Amplifier | Type: Class D (digital)<br>Input impedance: 10 kΩ balanced to ground<br>Rated power: 1 x 750 W EIAJ on 4 Ω, 1 x 370 W EIAJ on 8 Ω<br>Cooling: temperature controlled variable speed fan<br>Special feature: direct preset selection, controllable via iPad app |
| Maximum SPL Output * | 139 dB SPL<br>* *measured using +10 dB Crest Factor signal @ 1 m, Half-space* |

PHYSICAL

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|---|---|
| Component Low | 1 x 12″ NdFeB woofer, vented high-pass box |
| Component High | 2.5″ diaphragm compression driver with folded waveguide |
| Connectors | Audio: 1 XLR + 1 Link Out<br>Ethernet: 1 EtherCon + 1 Link Out (RJ 45 Socket)<br>Mains: 1 Powercon + 1 Link Out |
| Cabinet Material | Baltic birch plywood |
| Cabinet Finish | Black polyurea coating |
| Grill | Epoxy powder coated |
| Protective feet | Four on bottom side and four on rear side |
| Height | 355 mm – 14″ |
| Width | 420 mm – 16 1/2″ |
| Depth | 550 mm – 21 5/8″ |
| Weight | 25 kg – 55.1 lb |

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