iSM 212

FEATURES

- Self-powered 2 x 12" LF plus 1 x 1.4" HF dual-angle wedge monitor loudspeaker
- Very low physical profile combined with extremely high-level audio output - only 32.5 cm (12.8 inches) high yet can deliver up to 140 dB SPL
- Compact and lightweight, just 32 kg (70.5 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 web-based / TCP/IP protocol to provide real time control over all system parameters
- Extremely sturdy, non-resonant cabinet design to withstand road use, 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 software
- Controllable via iPad and Java-based applications

APPLICATIONS

- Live sound stage monitoring for fixed and touring applications
- Perfect for television studios and televised events due to extremely low profile and unobtrusive appearance

DESCRIPTION

The Outline iSM 212 is a self-powered, DSP-controlled, full-range loudspeaker designed primarily for stage monitoring applications, whose internal amplifiers deliver 1050 W and 570 W into the LF and HF sections respectively. Low frequencies are reproduced by a pair of 12 inch reflex-loaded transducer, whilst the HF utilises a 1.4 inch throat compression driver fitted with a 3 inch 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 212 features an asymmetrical design providing dual floor-mount or installation angles. Constructed using high quality void-free 15 mm (0.59 inch) Baltic birch laminate, the external dimensions are extremely compact, particularly the vertical height which is just 32.5 cm (12.8 inches). This very low profile considerably reduces the visual impact when the enclosure is positioned between performers and audience, and makes the iSM 212 particularly suitable for television applications. 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. The iSM 212 delivers a usable frequency response of 64 Hz - 18 kHz at -10 dB. More importantly for its main application, the iSM 212 also delivers an impressively linear response of just +/- 3 dB between 76 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 212 will deliver a maximum SPL of 140 dB at one metre.

UNIQUE CONTROL POSSIBILITIES

The iSM 212 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 software) or via any standard web browser (with no special software required), just as one would navigate a website. 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.

TECHNICAL SPECIFICATIONS:

Available on the App Store

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FREQUENCY RESPONSE	(-10 dB)	64 Hz ÷ 18 kHz
	(±3 dB)	76 Hz ÷ 15.5 kHz
AVERAGE DISPERSION	>5 kHz	35° x 80° (H x V)
BUILT-IN PWM AMP POWER (W RMS)		
	Low	1050 @ 4 Ω
	High	570 @ 4 Ω
MAX SPL @ 1 m (calculated)	Peak	140
CONNECTORS	Audio	1 XLR + 1 Link Out
	Ethernet	2 EtherCon (RJ 45 Socket)
	Mains	1 PowerCon + 1 Link Out

LOUDSPEAKERS AND LOADING

Low	2 x 12" NdFeb High pass loaded woofer
High	1 x 1.4" Exit (3" diaphragm) NdFeb compression driver with folded wave guide

	Single unit	Shipping (1 unit)
WEIGHT	33 kg (72.8 lb)	38 kg (83.8 lb)

DIMENSIONS

	Single unit	Shipping (1 unit)
Height	32.5 cm (12.8'')	48.5 cm (19.1'')
Width	70 cm (27.6'')	74.5 cm (29.3'')
Depth	50 cm (19.7'')	69.5 cm (27.4'')

STAGE MONITOR SERIES