

IWS-10 IWB-10 IWA-250

INWALL SUBWOOFER, INWALL BACK BOX & INWALL AMPLIFIER



DEPTH TO ALL FROM COVERT BASS SYSTEM

MONITOR AUDIO EXTENDS ITS CUSTOM RANGE WITH FLEXIBLE NEW IN-WALL SUBWOOFER DESIGN.

Created to add deep bass frequencies to architectural speaker systems, Monitor Audio's new in-wall subwoofer design is an amalgam of sophisticated IWS-10 subwoofer driver, IWA-250 amplifier and IWB-10 back box. The system has been conceived to deliver optimum 'controlled' bass in new walls or easy bass augmentation in retro-fit situations.



IWS-10

Generating excellent bass depth with maximum installation flexibility the IWS-10 subwoofer driver is a highly specialised design employing an extraordinarily rigid, flat 10" surface of 10mm (3/8") RDT® material derived from Monitor Audio's acclaimed 'Platinum' series of high-end speakers. Rigid Diaphragm Technology is a sandwich of C-CAM® alloy, bonded to a honeycomb Nomex core. The resulting properties of low mass and great strength give the driver the ability to behave as an extremely agile piston, resistant to bending, light enough to deliver an accurate bass response through large excursions, even within a shallow 81mm profile. A large vented pole helps to move air quickly, reducing power compression and improving heat dissipation.

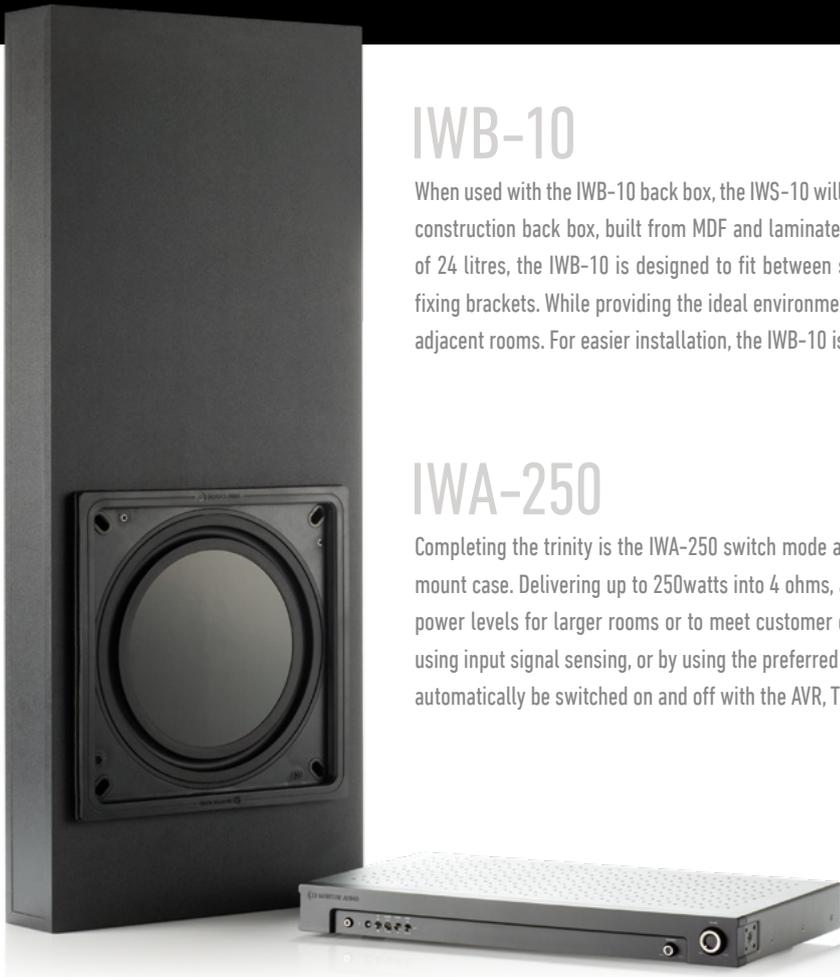
Consequently the IWS-10 is specified to produce excellent bass quality in a range of wall, ceiling, even floor locations, ideally but not exclusively with its IWB-10 back box, introducing wider retrofit possibilities. It features Monitor Audio's patented Tri-grip® clamping system which is easier to install and provides three times the surface area of a conventional dog-leg type clamp, offering better overall surface sealing. The IWS-10's trim-less grille and frame edge are paintable to blend discreetly with décor.

IWB-10

When used with the IWB-10 back box, the IWS-10 will return optimum 'controlled' performance. The IWB-10 is a sealed pre-construction back box, built from MDF and laminated with a rugged black Sandex vinyl finish. Having an internal volume of 24 litres, the IWB-10 is designed to fit between standard 14" stud spacing and comes supplied with adjustable steel fixing brackets. While providing the ideal environment for the driver, the IWB-10 will also reduce the radiation of sound to adjacent rooms. For easier installation, the IWB-10 is pre-wired with external terminals.

IWA-250

Completing the trinity is the IWA-250 switch mode amplifier - a slim, powerful dedicated design in a heavy-duty 1U rack mount case. Delivering up to 250watts into 4 ohms, a single IWA-250 will power single or dual IWS-10s to provide higher power levels for larger rooms or to meet customer demands. The IWA-250 can be configured to switch on automatically using input signal sensing, or by using the preferred 12v trigger link from an AVR or system source. The IWA-250 will then automatically be switched on and off with the AVR, TV or system remote control handset.

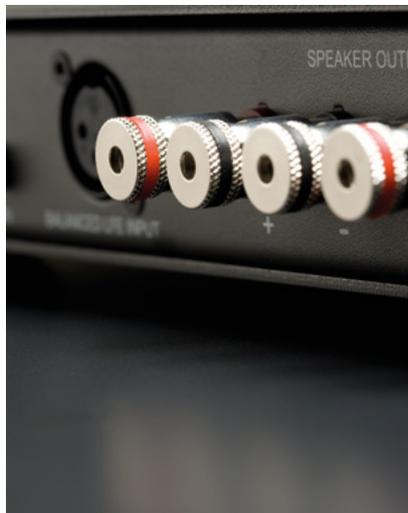


The amplifier utilises a cool running Class D power stage driven by a PWM with integrated DSP. Filtering and functionality are controlled in the software for precise and reliable operation. The IWA-250 offers a choice of single LFE, balanced XLR and stereo RCA inputs. Output connection is made via two sets of push type terminals to provide connection to one or a pair of IWS-10 drivers. The front panel allows access to all control features for easy adjustment when fitted into a rack bay. An EQ switch offers a selection of music, movie and impact presets for the ideal response in-room. There is also an enclosure switch to calibrate the drive characteristics when the IWS-10 is used within or without the IWB-10 back box.

IWA-250 (FRONT)



IWA-250 (TERMINALS)



IWB-10 (TERMINALS)



IWS-10:

KEY FEATURES

- Rigid Die-cast chassis/basket
- Large vented pole design to reduce power compression, lower distortion and improve power handling
- High tech RDT Flat 'sandwich' cone technology
- 'Push' type terminal – for easy installation
- 8 ohm impedance
- 50mm diameter voice coil with anodised former – Improves convection cooling effects
- +/- 12mm of excursion – results in controlled bass at low frequencies and delivers high SPL
- Patented Tri-Grip fixing system
- Trim-less, low profile, paintable grille.

IWS-10 SPECIFICATIONS	
Frequency Response (when mounted in optimum enclosure):	28Hz – 120Hz
Impedance (nominal):	8 ohms
Sensitivity (1W@1m):	86dB
Maximum SPL (partnered with SA-250):	single unit 109.8dB; pair 115.8dB
Power handling:	150 W
Cut-out dimensions:	280 x 280 mm (11 x 11")
Mounting depth:	89.98 mm (3.5")
Fixing:	4 position Tri-Grip fixings
Cable Connection:	'Push' type terminals
Construction material:	Mineral filled ABS (ROHS compliant)

IWB-10:

KEY FEATURES

- Designed to provide optimum performance for IWS-10
- Fits into standard 14" stud bays (16" centres)
- Heavy duty MDF construction
- Rugged laminated vinyl finish
- Pre-wired with external high quality 'push' type terminals.

IWB-10 SPECIFICATIONS	
Internal volume:	24 Litres
Dimensions (H x W x D):	850 x 351 x 85 mm (33 ^{1/2} x 13 ^{13/16} x 3 ^{11/32} ")
Construction Material:	MDF (CARB level 2 approved)

IWA-250:

KEY FEATURES

- Rigid, high quality steel case
- Switch mode power supply
- Class D power amplifier delivering up to 250watts into 4 ohms (dual IWS-10 drivers)
- High efficiency design resulting in cool running – low thermal output
- DSP controlled with advanced limiters
- <0.5watt standby power consumption (ErP certified)
- DC short circuit protection, over-current and thermal protection

FRONT PANEL FEATURES

- Volume Control
- Enclosure switch (enclosure or open baffle)
- EQ profile switch (music, movie, impact)
- Phase switch (0-180)
- Crossover control (variable low pass from 50-120Hz)
- Mains power switch
- Power mode switch (auto sense, trigger, on)
- Power LED with fault indication

REAR PANEL FEATURES

- RCA stereo inputs
- LFE input (RCA and balanced XLR)
- Two sets of spring loaded push terminals for simple installation of one or two IWS-10
- Fused IEC mains socket
- Trigger input (3.5mm mono mini-jack socket).

IWA-250 SPECIFICATIONS	
Low frequency response:	25Hz-120Hz
Maximum power output:	250watts @ 4 ohms
Construction Material:	3mm thick fabricated steel case, moulded ABS front trim panel

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