# 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

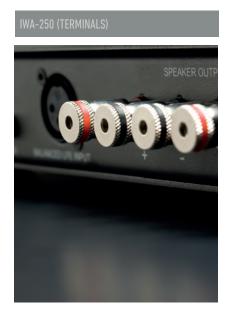
Generating excellent bass depth with maximum installation flexibility the IWS-10 subwoofer driver is a highly specialised design employing an extraordinarily rigid, flat 10" surface of 10mm (3/8") RDT® material derived from Monitor Audio's acclaimed 'Platinum' series of high-end speakers. Rigid Diaphragm 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.



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.







#### 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	28Hz – 120Hz	
(when mounted in optimum enclosure):		
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)
- $\bullet$  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	

Monitor Audio Ltd 24 Brook Road, Rayleigh Essex, SS6 7XJ England

Tel: + 44 (0)1268 740580 Fax: + 44 (0)1268 740589 Email: info@monitoraudio.co.uk

