



## Product Data Sheet

### Invisible, Plaster-In Loudspeakers

# AIWX Series



AIW1X



AIW3X



AIW5X

(AIW2X & AIW4X dual channel not shown)

Zero visual impact, easily installed, wide bandwidth, high power, highly dynamic, wide dispersion loudspeaker systems

#### Technology

Using Distributed Mode technology, the AIWX series speakers work just like a natural musical instrument creating a large, vibrating soundboard. They share the musical instrument's ability to generate high sound pressure levels over wide areas and with even distribution.

Due to their wide dispersion of audio, positioning the AIWX series speakers in a room is much less critical compared to conventional devices. Also, the number of loudspeakers required in any one space is dramatically reduced (sometimes by a factor of 4 to 1) resulting in reduced installation cost and complexity.

The vibrating panel surface of the AIWX series speakers is composed of an absorbent paper skin providing the perfect bond to PVA adhesive prior to the application of the final wet plaster finish. Once plastered over with a standard 1/12" (2mm) finish skim coat the wall or ceiling surface can then accept paint, wallpaper, flock, leather or textured finishes.

#### Application

Designed to be flush mounted into walls and ceilings and skimmed over, the AIWX series loudspeakers achieve a truly invisible solution for any type of audio system.

#### Installation

AIWX series speakers are supplied with all fixings required for 1/2" (12.5mm) thickness dry walls or ceilings. Fixings for alternative board thicknesses are available on request. A quick installation process is made possible because these lightweight speakers are designed to be attached to the drywall board alone and not to any rear structural timbers or other special framework.

#### Warranty

The AIWX series speakers are designed to be maintenance free. Correctly installed and operated in accordance with the instruction guide, Amina Technologies Ltd warrants AIWX series speakers against defective materials and workmanship for a period of 10 years.

# Plaster-In Loudspeakers

Concealed Audio Solutions with inspirational results

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## Specifications

Model:	AIW1X	AIW2X	AIW3X	AIW4X	AIW5X
Nominal impedance	8 Ohms	8 + 8 Ohms	8 Ohms	8 + 8 Ohms	8 Ohms
Power handling (continuous)	20w	20w + 20w	40w	40w + 40w	80w
Sensitivity (with 1.5mm plaster skim)	82dB 1m/1w	85dB 1m/1w	85dB 1m/1w	88dB 1m/1w	88dB 1m/1w
Max SPL (with 1.5mm plaster skim)	95dB 1m/20w	101dB 1m/1w	101dB 1m/1w	105dB 1m/1w	105dB 1m/1w
Frequency range	100Hz - 20kHz	100Hz - 20kHz	100Hz - 20kHz	100Hz - 20kHz	100Hz - 20kHz
Electrical connection	Blue butt splice crimp terminals				
Dimensions	450 x 345 x 40mm (17 <sup>3</sup> / <sub>4</sub> x 13 <sup>5</sup> / <sub>8</sub> x 1 <sup>5</sup> / <sub>8</sub> "				
Product weight	910g (2 lbs)	1175g (2.6 lbs)	1175g (2.6 lbs)	1810g (4 lbs)	1810g (4 lbs)
Minimum aperture depth	60mm (2 <sup>3</sup> / <sub>8</sub> " from front of panel				
Fixings provided	Suitable for 12.5mm & 16mm (1/2" and 5/8") thick drywall				
Box quantity	Pairs	Singles	Pairs	Singles	Pairs
High pass filter requirement	APU2 (supplied) or optional APU-R multi-channel rack mount device				

## Accessories Included

All AIWX series speakers are shipped with a basic fixing kit for cavity wall/ceiling systems and an Amina APU2.

The APU2 is a passive, in-line protection unit designed specifically to improve the performance and reliability of the AIWX series speakers. It features a 20dB/octave high-pass filter and self-resetting fuse that reduces the speaker volume output to a safe level should an overload occur.



## Optional Accessories

**APU-R** - this 1U high, rack mount, in-line protection unit is for use with the AIWXn range of Plaster-In Loudspeakers. The APU-R is designed to be used as an alternative to the Amina APU2 (2 channel protection unit) where a 19 inch rack based product is more desirable.



**Backbox-FS** - easy to install into cavity walls or ceilings, this optional backbox provides a sealed enclosure with a special sound proofing layer built in.



**Backbox-SW** - when installing your AIWX series speaker into a solid wall or ceiling use this backbox to achieve the correct speaker mounting depth.



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