The Professional Monitor Company’s AB1 transmission line monitor loudspeakers are suitable for mid and farfield applications. Their extended response and controlled dispersion characteristic make them suitable for applications ranging from broadcast and post production to music and surround sound recording.

AB1’s transmission line loading offers the following advantages over a conventionally ported loudspeaker:

- Exceptional low frequency extension
- Lower colouration
- Neutral yet dynamic performance
- Consistent balance at all levels
- Higher SPL’s without distortion or compression

The Transmission Line
AB1’s bass driver is mounted at the mouth of a long tapered line damped with an acoustic absorbent, whilst the other end terminates in a port which at low frequencies radiates as a piston. As the frequency is lowered, control on the driver is increased, resulting in a system capable of higher SPL’s than the equivalent ported design. This ensures operation within the driver’s linear range and reduces low frequency distortion and colouration. All PMC’s transmission line monitors retain their bass end balance and quality irrespective of level.

The Drive Units
The AB1 uses two low colouration drivers both capable of sustaining massive transient power peaks without compression. A 17 element 4th order crossover network integrates the units and ensures an even, neutral response with consistent image control and projection, irrespective of listening position. All internal wiring is implemented using oxygen free copper (OFC) cable.
Connections
Full biwire/biamp facilities are provided on the AB1. Two options are available: either via the Neutrik NL4 Speakon or by two pairs of Gold plated binding posts, both versions allow separate cables to be used to connect the bass driver and tweeter to the amplifier if required.

The Cabinets
As with all Loudspeakers in our series high engineering and build quality is of paramount importance. Constructed from thick double veneered 18mm MDF, the AB1’s are additionally strengthened by the internal line partitioning. Before installation of the matched components and drivers the cabinets receive a final treatment of bitumastic pads and acoustic foams. We pride ourselves in our engineering and build quality from cabinet maker to final packing. Attention to detail at every stage of assembly means that matched and selected quality components are used throughout, this guarantees the product you receive is the one we designed.

Specification
Usable frequency response
25Hz - 25kHz

Peak SPL @ 1 metre
>116dBA

Sensitivity
89dB 1 watt 1 metre

Recommended Amp power
Up to 400 watts

Effective line length
2.4 metres (8ft)

Crossover frequency
2kHz

Impedance
6 ohms nominal

Drive Unit Compliment
Bass:240mm 1kw pulse
100mm voice coil
Tweeter: Fabric (silk) soft dome with double chamber

Input Connector Options
2 Pairs Gold Binding post / 4mm banana or Neutrik NL4 Speakon

Finishes
Black Ash / Walnut / Rosewood

Weight
25kgs each

Dimensions
Height 790mm
Width 267mm
Depth 430mm

Other
Magnetically Shielded

Stands
Specialist Stands for Studio use are available
Further details on request.
Subject to change without notice

AB1 MONITORS

PMC
Unit 72 Haslemere Ind Est, Tewin Road
Welwyn Garden City
Hertfordshire
AL7 1BD
Tel: 01707 393002
Fax: 01707 393536