

PS-80

5" 2Way Powered Compact Loudspeaker

interM

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INTER-M PRO SOUND The PS-80 was designed from Inter-M's 30 years of research and development experience in Sound Equipment products.

The PS-80 Loud-Speaker is a compact high quality installation 2way loud speaker. The PS-80 is precision manufactured using the latest CNC machineries out of the highest quality multi-ply birch.

They are loaded with High quality 5inch LF driver and a 1 inch silk dome tweeter for precision sound reproduction.

The PS-80 is a compact powered speaker loaded with a 170 watt amplifier with circuitry optimized for outstanding performance while maintaining great speech intelligibility and musicality making the PS-80 ideal for BGM as well as voice reproduction.

Features

- High-quality, high-powered compact installation speakers
- Built-in 170 W high-efficiency amplifier
- 2way, 5" woofer & 1" silk dome
- 100-120 V, 220-240 V selectable power supply
- Adjustable volume(Line Level, +6 dB)
- Euro block line input
- Standard AC connector
- Easy to installation and maintenance (Top/Bottom insert point, Separated panel)
- Ease of installation (Yoke bracket supplied)
- Natural sound quality
- EASE data available

Applications

- Small and medium-sized room main speakers
- Fill speakers for balcony and VIP rooms
- Near-field front speakers
- Boardroom and Classrooms
- BGM in Restaurants
- Lecture, Conference and multi purpose room
- High-end stores



High Quality Components

The PS-80 speakers are manufactured using high-quality drivers and components. The 5 inch low frequency driver voice coil is manufactured of pure copper and Kapton for optimum efficiency and accurate response.

The 1 inch silk dome high frequency driver outputs crystal clear linear treble. Our custom design and tuned crossover network ensures a smooth frequency responses and maximizes the SPL of the High-frequency and Low-frequency drivers. Internal protection circuitry protects the drivers from damage.

Acoustic enclosure(Acoustic Design)

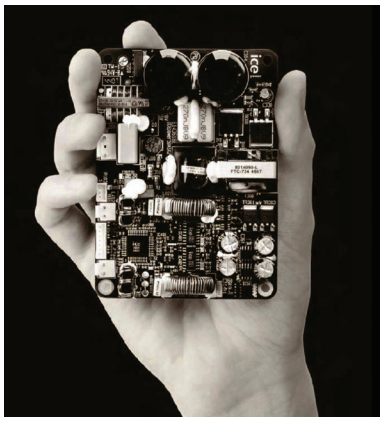
The enclosure was designed using the latest in simulation software. The port size, length and position were accurately tuned to minimize resonance and maximize base output. The shape and size of the enclosure is optimized to prevent the emitted energy to interfere with the driver's driving factor. The PS-80 loudspeaker uses eco-friendly high density sound-absorbing materials to block unwanted internal resonance.

Professional speaker(Sound Philosophy)

The PS-80 compact loudspeaker has the right sound pressure balance between the drivers offering a crisp high frequency sound with rich base while maintaining a smooth frequency response and high SPL. Our rigorous testing and quality control process ensures a uniformity and consistency in frequency, impedance and SPL. Speakers are tested beginning at the component level throughout the assembly process and all the way to the finished product.

HIGH-EFFICIENCY AMPLIFIER MODULE

The PS-80 is powered with a high efficiency 170 watt amplifier module. Compact and lightweight the amplifier module delivers high efficiency power with high quality precision sound. Patent pending interlocked power technology maximizes energy efficiency and power output.
The eight stage protection circuitry offers maximum protection while maintaining amplifier stability and a wide dynamic range.





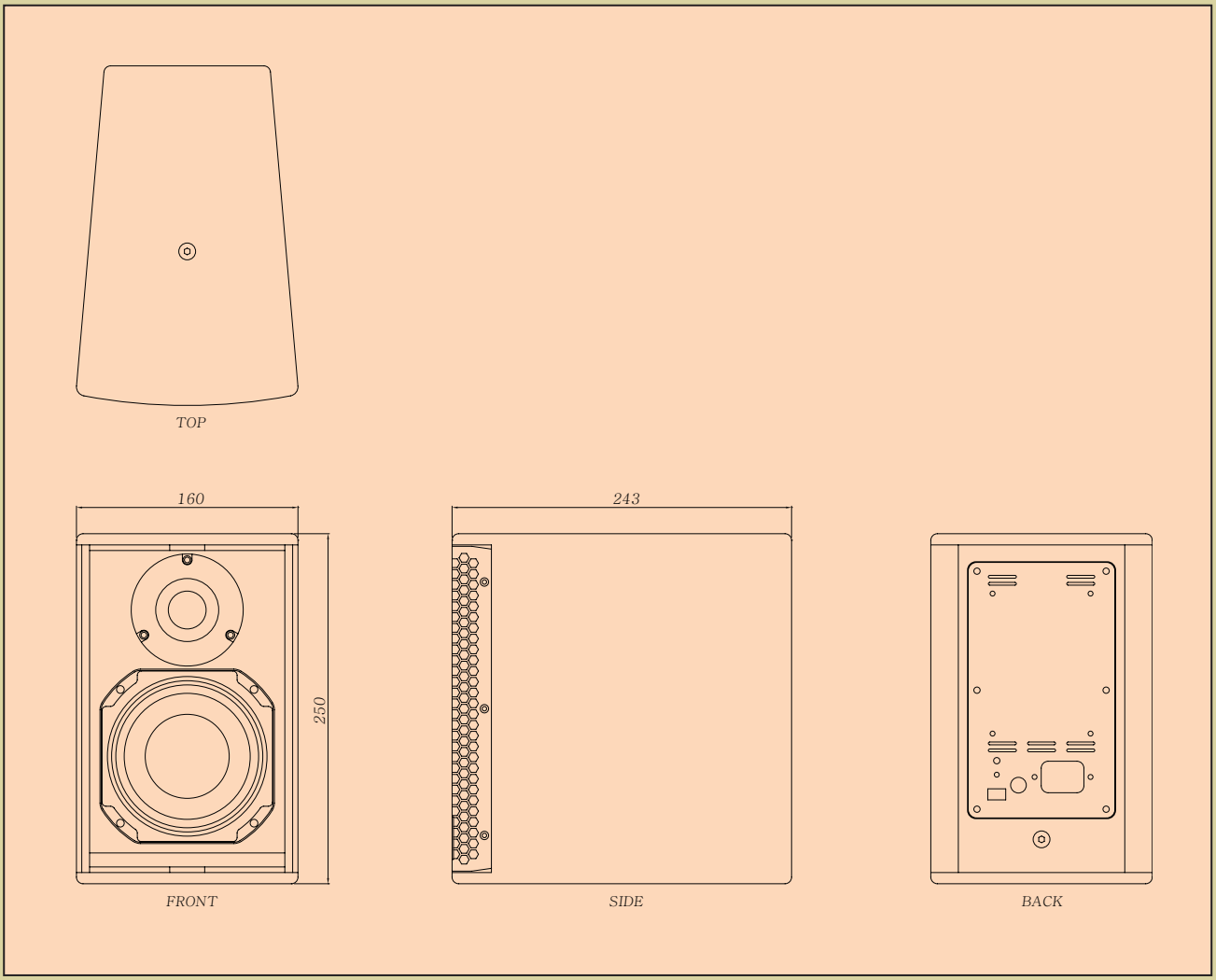
Rear Panel Design
The rear panel incorporates the integrated power amplifier module, line level input connector, level control and the ac power input. The panel is made of steel for better heat dissipation for efficient convection cooling of the amplifier. The modular circuit design and panel assemble offer easy access and serviceability.

Ease of installation
The PS-80 speaker can be wall or ceiling mounted. An option yoke type bracket is also available. Line level audio input is provided on contractor friendly easily to install detachable euro block type terminal. Adjustable input level is provided. Dual 220 V or 110 V voltage is internally selectable via jumper setting. AC Cord is detachable.

Robust assembly with eco-friendly paint enclosure
The PS-80 Series speaker enclosure is manufactured using a high precision CNC Machinery with 12T Nordic birch Plywood. The panels are assembled using an interlocking joining method which ensures durability and minimizes sound leakage. The entire enclosure including the high quality paint finish complies to ROHS.

Drawings

PS-80



Specifications

Model	PS-80
Type	2Way Powered Point Source
Frequency Range (–10dB)	77Hz ~ 20kHz
Power Handling (AES)	170W
Power Handling (Program)	160W
Power Handling (Peak)	320W
Input Sensitivity	4.5dBu
S/N (use A–weighted filter)	More than 95dB
Sensitivity (1W/1m)	88dB
Maximum SPL (Peak)	113dB
Nominal Dispersion	120° Conical
Nominal Impedance	8Ω
Nominal Impedance	5" Woofer 2" voice coil
HF Driver	1" exit compression driver 1.35" voice coil
Horn	Integral Conical Horn with HF
Enclosure Material	12T Birch Plywood
Grille	Black powder coated 14 gauge hexagon perforated steel, protection mesh backing
Operating Temperature	-10°C ~ +40°C
Connection	1×3P Euroblock, AC Inlet
Fittings/Suspension	2Point for Bracket
Finish	Polyurea Coating
Color	BLACK
Weights (Net)	4.3kg/9.5lb
Dimensions (Net, W×H×D)	160×250×243mm/6.3×9.8×9.5in
Power Input	AC 100-120V or 220-240V 50/60Hz, 21W
Optional Accessories	MSB-80 (U Bracket)

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