



ProRack™ - House

APB-DynaSonics' ProRack-House small-format mixer incorporates a wealth of professional features and exceptional performance in a 10 rack space product. The chassis design features an adjustable connector assembly that freely rotates and can be set to three different angles relative to the front panel. This allows the input and output jacks to be properly positioned whether these mixers are mounted in a vertical rack, slant rack or used on a desk top.

ProRack's audio design is based on the critically acclaimed Spectra Series and ProDesk consoles. This includes the use of minimum phase-shift circuitry, expressive EQ and integrated BurrBrown mic preamplifiers used in a proprietary front end circuit. In addition to superior audio quality, reliability and serviceability are also primary design criteria for ProRack. Internal construction is based upon a passive mother board and multiple active daughter boards. The active electronics of a single input channel is designed onto two field-replaceable electronics modules. The power supply is a plug-in assembly that can be easily field-replaced by removing 6 screws. Special care has been taken to reduce RF interference and eliminate any Pin-1 related problems.



ProRack™- House - Rotatable (3 Position) rear panel assembly.

FEATURE OVERVIEW:

- 12 Mono input channels and 4 Dual-Mono/Stereo input channels, all with Spectra-quality microphone preamplifiers in a 10u (17.5" in x 19") package.
- Minimum phase shift circuitry and internal Mother Board/Daughter Board construction derived from the Spectra console design.
- 48 volt Phantom Power switch, Mic/Line switch, Mic Pad switch, and Polarity Reverse switch.
- Variable frequency high-pass filters on all Mono and Stereo input channels with a 20Hz to 400Hz sweep range at 12dB per octave.
- Mono input channels feature fixed high and low frequency EQ bands and two mid-sweep EQ bands, with EQ On switch and LED. The Stereo channels feature fixed high and low frequency EQ bands and a single mid-sweep EQ based on Spectra circuitry.
- Six aux sends; each pair of sends switchable between a pre or post fader source. In the pre-fader position, an additional front panel switch determines if that pre-fader signal is derived pre or post EQ. Aux controls 5 and 6 may be switched to become a stereo pair.
- All channels can assign to Left-Right, Center and Mono mix bus assignment along with additional assignment switches to subgroups 1-2 and 3-4. These outputs (including aux outputs) each have balanced XLR outputs, TRS bus inputs and TRS insert connectors.
- Left-Right, Center and Mono mix output level can be switched from line level to mic level.
- Internally illuminated Mute and PFL/AFL switches along with 6-segment LED channel metering and 100mm faders on all input channels.
- Four LED bar graphs can meter the Left, Right, Center and Mono outputs or the Group 1-4 outputs. Meters auto-switch to show Solo levels.
- Bus level signal monitoring using bi-color LED's on all 14 mix buses: Left, Right, Center, Mono, Groups 1-4, and Aux 1-6.
- 100-240 VAC, 50/60Hz Power Supply - Field replaceable (plug in) without disassembly of mixer. An adjustable lamp dimmer provided for the
- 4-Pin XLR connector for use with (optional) gooseneck lamp.
- Adjustable connector assembly rotates and can be locked into any of three different angles relative to the front panel.

Specifications:

Frequency Response (Any input to any output)	+0/-0.5dB 20Hz to 20kHz (ref to 1kHz)
Phase Response (Mic input to Main Output).....	+10/-15 degrees, 20Hz to 20kHz (ref 1kHz)
THD + Noise (Mic Input to Main Output).....	<0.01% @ 15dBu output
Noise: All measurements ref to 20Hz to 20kHz Bandwidth unless noted.	
Mic EIN.....	-128dBu @ 60dB gain, 150 ohm source
Main Bus (L-R-C-M) Output Noise.....	-85dBu (all Channels assigned w/faders down, Master fader at unity).
Group Bus Output Noise.....	-85dBu (all Channels assigned w/faders down. Group fader at unity).
Aux Bus Output Noise.....	-90dBu (Aux Sends down. Aux Master at unity).

Interconnect Features:

- Direct outputs on all input channels.
- Inserts on all Mono input channels, Aux, Group, and Main outputs.
- Bus inputs on all 14 mix buses (Aux, Groups, Mains) to allow for easy expansion through linking of units.
- Both 1/4" and 1/8" Headphone connectors are provided.

ProRack rear panel shown in full open and closed positions.

