PRODUCT HIGHLIGHTS

- *Provides stereo mix control of sixteen audio channels*

- *Sixteen channel-select buttons with Select and Mute LEDs*

- *Channel Volume control with LED readout*

- *Channel Pan/Spread control with LED readout*

- *Dedicated Recall, Group, Solo, and Mute buttons*

- *Sixteen user Preset memory locations*

- *Master Volume, Treble, and Bass controls*

- *Tabletop or mic-stand mountable (using optional MT-1 mic stand bracket)*

The A-16II Personal Mixer is the industry standard solution for delivering high quality monitoring control directly to performers on stage and in the studio. Each A-16II Personal Mixer provides independent mix control of sixteen channels, including channel volume, pan/stereo spread, and grouping, as well as master volume and tone controls. Additionally, each Personal Mixer can store and recall up to sixteen independent custom mix snapshots.

Individual channels, stereo pairs, and channel groups can be soloed or muted. The Global Trim function can be used to decrease every channel's volume 6dB, providing additional headroom for mixing a selected channel.

The TRS audio output from the A-16II can be connected to a range of devices, including wired in-ear monitors (IEMs), transmitters for wireless IEMs, headphones, powered monitors, and power amps. The A-16II features unique high voltage and high current output circuitry which auto-detects stereo and mono connections.

Audio is delivered to the A-16II from a Pro16® input module or console card over a single Cat-5e cable, using Aviom's ultra-fast A-Net® Pro16 technology. A-Net provides plug-and-play operation, long cable runs (up to 500ft/150m between devices), and sub-millisecond transmission of 24-bit digital audio.

Power can be supplied to the A-16II through an external DC power supply or over the Cat-5e cable, using an A-16D or A-16D Pro A-Net Distributor. Personal Mixers can be daisy-chained (with external DC power supplied locally) or connected in parallel using an A-Net Distributor.
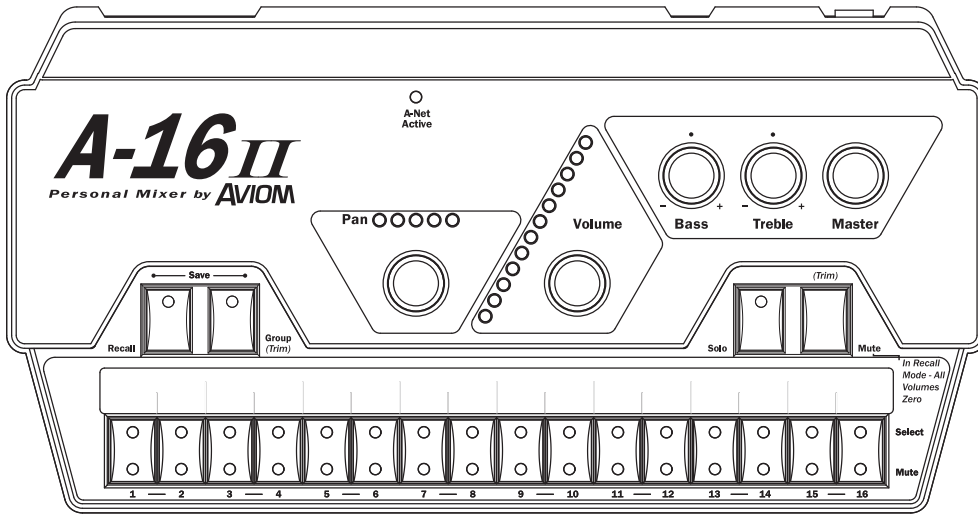
A-16II Personal Mixers can be used in virtually any combination with other Pro16 devices, including the rack-mounted version of the Personal Mixer, the A-16R.

A-16II PERSONAL MIXER SPECIFICATIONS

Audio Outputs	1/4" TRS stereo, headphone or line level
Line/Headphone TRS Output	Tip: Audio Left; Ring: Audio Right; Sleeve: Ground
	Auto-detects mono plugs
A-Net I/O	1 A-Net In, 1 A-Net Out; RJ45 connectors
D/A Conversion	44.1/48kHz, 24-bit
Indicators	Pan: 5 LEDs, 4 red, 1 green; Channel Volume: 12 red LEDs
Stereo Operation	Stereo Link, per channel pair; set at the input module Variable pan/spread per channel or channel pair
Tone Controls	Treble: +/-12dB at 9kHz shelving Bass: +/-12dB at 160Hz shelving
Maximum Level (RMS)	1.0 watt at 100 Ohms (Line/Headphone output)
Output Impedance	32 ohms
Freq. Response	4Hz-22kHz +0.2dB/-3dB
THD +N	< 0.003%
Crosstalk	-90dB

Signal to Noise (unweighted)	-90dB typical, A/D to D/A	
	Measured from AN-16/i to A-16II	
Latency	0.880 msec (measured from analog input to analog output)	
A-Net Pro16	uses unshielded Cat-5e UTP (or better) cable; maximum 500ft (150m) between devices	
Power Supply	External, DC, universal switching type	
Input Voltage	100-240 volts, 50/60Hz, 30VA	
Output Voltage	18-24 VDC, 0.5 amp	
Plug Size	2 mm	
Dimensions	10.75" (273 mm) wide x 5.6" (142.2 mm) deep; 2.25" (57.5 mm) high	
Weight	3.4 lbs (1.54 kg)	
Options	MT-1 Mic Stand Bracket EB-1 Extension Bracket	

All Aviom products are designed and manufactured in the USA.

A-16 II PRO 16
Personal Mixer

FRONT PANEL FEATURES

- Channel select
- Channel Volume
- Channel Pan
- Master Tone & Volume
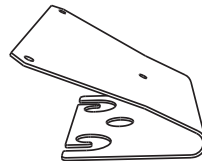- Preset Save/Recall
- Group
- Solo
- Mute
- Global Trim

REAR PANEL FEATURES

- A-Net In/Out
- DC power in
- Headphone/Line out
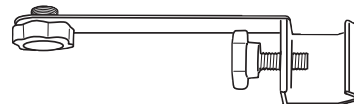
Mixer Mounting Options

The A-16II can be mounted to standard mic stands with the MT-1, which attaches with three screws to the bottom of the Personal Mixer.
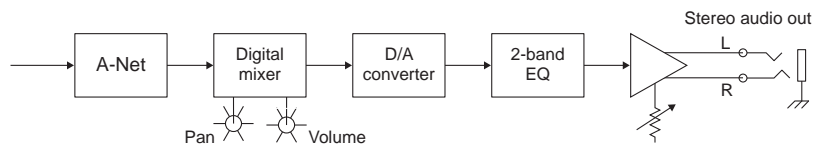
MT-1 Mic Stand Mount

The EB-1 Extension Bracket allows the A-16II to attach to the shaft of standard mic or music stands. The EB-1 requires the MT-1 Mic Stand Mount.

EB-1 Extension Bracket

A-16II BLOCK DIAGRAM

ARCHITECTURAL SPECIFICATION

The Aviom A-16II Personal Mixer shall provide stereo mixing of sixteen channels of audio transmitted via an A-Net network over Cat-5e UTP cable. It shall provide full-bandwidth audio by employing the Aviom A-Net Pro16 audio transmission protocol. It shall employ 24-bit D/A converters with a 44.1/48kHz sample rate.

It shall have a frequency response from 4Hz to 22kHz, +0/-0.2dB or better, with total harmonic distortion no more than 0.003% at 1kHz with a +4dBu input signal. Maximum level (RMS) shall be 1.0 watt at 100 ohms. The audio output shall be capable of being connected to headphones or line-level audio sources. Output impedance shall be 32 ohms.

Front panel features shall include master volume, treble and bass controls, LED indicators for Channel Volume and Pan, lighted channel-select buttons, mute and solo functions. A front-panel A-Net Active LED shall be provided. The unit shall be capable of storing sixteen mixes as presets in internal memory.

Rear panel features shall include a detachable DC power cord. The unit shall be powered from an external universal power supply (input voltage 100 to 240 VAC; output voltage 18-24 VDC, 0.5 amps). It shall be UL and CE listed.

The rear panel shall have RJ45 connectors for A-Net digital signal input and output. It shall employ a ¼" TRS jack for headphone/line-level output.

Its dimensions shall be 10.75 inches wide, 5.6 inches deep, and 2.25 inches high. Its net weight shall be 3.4 pounds, and it shall be finished in blue. The unit shall be Aviom, Inc. model A-16II.

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