

SPECIFICATIONS



AMD™ 1620 16 x 2 Mixer

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All specifications are typical unless otherwise noted and are referenced to nominal output level (0 dBV) unless otherwise noted. All measurements are wideband (20 Hz to 20 kHz) unless otherwise stated.
0 dBV = 1 volt 0 dBu = .778 volt

CHANNEL

EQUIVALENT INPUT NOISE:

-133 dBV (150 ohm, 25° C., 60 dB Gain)

FREQUENCY RESPONSE:

±2 dB 20-20,000 Hz all EQ flat

DISTORTION:

Less than .05% @ 0 dB

Output 60 dB Gain

Typical .003% @ 0 dB Output 30 dB Gain

(Mic input to L or R outputs, EQ flat, Sliders at 0)

COMMON MODE REJECTION RATIO (CMRR):

Greater than 100 dB typical

INPUT IMPEDANCE:

Mic = 2 kilohms

Line = 10 kilohms

Patch = 20 kilohms

OUTPUT IMPEDANCE:

Patch Send = 100 ohms

HIGH EQ:

±15 dB @ 10 kHz minimum

Center detent flat ±2 dB

MID EQ:

±15 dB @ selected frequency

Center detent flat ±2 dB

MID FREQUENCY:

200 Hz to 5 kHz adjustment of mid frequency

LOW EQ:

±15 dB @ 50 Hz minimum

Center detent flat ±2 dB

MAXIMUM PREAMP GAIN:

60 dB minimum

MINIMUM PREAMP GAIN:

2 dB

MAXIMUM CHANNEL GAIN:

70 dB (Pan at L or R, Slider @ Max, EQ flat)

MAXIMUM INPUT LEVEL:

Mic = +16 dBV (6.3 V RMS)

Line = +36 dBV (60 V RMS)

Patch Return = +18 dBV (8 V RMS)

MAXIMUM OUTPUT LEVEL:

Patch Send = +18 dBV (8 V RMS)

NOMINAL INPUT LEVEL:

Mic = -20 dBV (100 mV, -18 dBu)

Line = 0 dBV (1 V RMS)

Patch Return = 0 dBV (1.0 V RMS)

HEADROOM:

Nominal = 18 dBV

Red LED = 3 dBV

PAN CHARACTERISTICS:

2 dB down @ mid position

LED LEVEL:

Red = +15 dBV (5.62 V RMS)

MASTER LED METER CALIBRATION:

0 = 0 dBV (1.0 V RMS)

NOMINAL OUTPUT LEVEL UNBALANCED:

Master = +0 dBV (1.0 V RMS)

L & R = +0 dBV (1.0 V RMS)

AUX A-F = +0 dBV (1.0 V RMS)

NOMINAL OUTPUT LEVEL BALANCED:

Master = +6 dBV (2.0 V RMS)

L & R = +6 dBV (2.0 V RMS)

AUX A & B = +6 dBV (2.0 V RMS)

NOMINAL HEADROOM:

Master = 19 dB (balanced and unbalanced)

L & R = 19 dB (balanced and unbalanced)

AUX A-F = 19 dB (balanced and unbalanced)

(unbalanced)

MAXIMUM OUTPUT LEVEL UNBALANCED:

Master = +19.5 dBV

(9.5 V RMS, +21.5 dBu)

L & R = +19.5 dBV

(9.5 V RMS, +21.5 dBu)

AUX A-F = +19.5 dBV

(9.5 V RMS, +21.5 dBu)

MAXIMUM OUTPUT LEVEL BALANCED:

L & R = +19.5 dBV

(9.5 V RMS, +21.5 dBu)

AUX A & B = +19.5 dBV

(9.5 V RMS, +21.5 dBu)

OUTPUT IMPEDANCE:

Master = 100 ohms

L & R = 100 ohms (unbalanced)

600 ohms (balanced)

AUX A-F = 100 ohms (unbalanced)

AUX A-B = 600 ohms (balanced)

OUTPUT NOISE

Residual: -97 dBV (L & R sliders down)

Bus: -88 dBV (All Channel Sliders down, Effects Returns down, Pans at middle)

Nominal: -82 dBV (All channels at 30 dB Gain, 150 ohm input, EQ flat, Pans at middle, Sliders at 0, All assigns at L&R, Effects Returns down)

AUX A-D RETURN INPUT IMPEDANCE:

33 kilohms

AUX A-D RETURN GAIN:

16.5 dB Max

AUXILIARY INPUT GAIN:

0 dB (Master, L, R, AUX A-F)

PEAVEY
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PFL AUXILIARY:

Tip = PFL Signal @ 1 V RMS nominal
Ring = PFL Switch Signal (Grounding
Activates PFL)

HEADPHONE:

Stereo 8 ohms to 200 ohms nominal
Tip = Left, Ring = Right, Sleeve = Ground
500 mW Total Power
Less than 1% Distortion

POWER CONSUMPTION:

120 V AC, 60 Hz, 30 watts

FEATURES

- Electronically balanced microphone inputs
- Transformer-balanced outputs
- Three-band EQ with sweepable mid
- Six AUX sends per channel
- Limit LED on each channel
- PFL system
- 100 mm long-throw faders
- Stereo and mono outputs
- Four AUX returns (2 mono, 2 stereo)
- Ten-segment LED arrays for left and right
- 48 V phantom power
- Socket for optional lamp
- Headphone jack and level control

DESCRIPTION

The AMD™ Series mixers are high-performance stereo consoles suitable for applications in churches, schools, theaters, and other venues requiring high-quality audio mixing capabilities. It is ruggedly constructed, with a steel chassis and bottom, and high-impact polymer end panels.

The AMD Series features six auxiliary sends per channel, two of which are pre-fader, two post-fader, and two switchable pre or post. Each channel also has a three-band equalizer with a sweepable mid-range control. There is also a pan control to

assign the channel to the left, right, or both master controls.

The left and right submasters are also summed to a mono master output, allowing the mixer to be used stereo or mono. The master section also contains four AUX returns, two stereo and two mono. Auxiliary inputs are provided for the left, right, master, and AUX A through F sends. An AUX master control is also provided for the AUX A through F outputs. A headphone jack with level control will give the operator the left and right outputs; when a PFL button in any channel(s) is activated, that signal will be present on the headphone jack. PFL volume is controlled by a separate PFL level control.

The AMD Series also offers dual ten-segment LED arrays for the left and right outputs, 48 V phantom power, a jack for an optional gooseneck lamp, cord wraps for portable operation, and soft-touch knobs.

ARCHITECTURAL & ENGINEERING SPECIFICATIONS

The mixing console shall have a 16 x 2 x 1 configuration with six auxiliary sends per input channel and four auxiliary returns in the master section.

Each channel shall contain a low-impedance balanced XLR microphone input with phantom power, a high-impedance unbalanced 1/4" phone jack line input, and a pre-equalization send/return jack utilizing a TRS 1/4" phone jack.

Each channel shall have an input gain control, high, mid-sweep and low

active tone controls, six auxiliary send controls, pan control, limit LED, calibrated 100 mm long-throw channel slider, PFL switch, and pre-post switch for AUX C and AUX D sends.

The master section shall have calibrated 100 mm long-throw sliders for left and right, dual ten-segment LED arrays for left and right, power-on indicator, and PFL active indicator. Additionally, the master section shall contain controls for the AUX A through F sends, PFL level control, headphone level control, headphone jack, master output level control, and AUX A through D return level controls and pan controls. Also, AUX A and B return circuits shall contain "To AUX A" and "To AUX B" controls to route signals to the AUX A and AUX B sends.

The patch panel section shall contain transformer-balanced female XLR connectors for the outputs of AUX A, AUX B, left and right. There shall be 1/4" phone jacks for AUX A through F outputs, AUX A through F auxiliary inputs, AUX A through D returns, master output and auxiliary input, right output and auxiliary input, and left output and auxiliary input.

There shall also be a power switch, a switch for the microphone phantom power, and connector for an optional gooseneck lamp.

The unit shall have a metal chassis with high-durability polymer end panels, soft-touch color coded knobs, and rubber feet. The mixer shall operate on 120 V AC, 60 Hz, and shall consume 30 watts of power. The mixer shall be the Peavey Architectural Acoustics Division model AMD™ 1620.

LIMITED WARRANTY

Peavey Electronics Corporation warrants to the original purchaser of this new Architectural Acoustics product that it is free from defects in material and workmanship. If within one (1) year from date of purchase a properly installed product proves to be defective and Peavey is notified, Peavey will repair or replace it at no charge. (Note: Batteries and patch cords not covered.) "Original purchaser" means the customer for whom the product is originally installed.

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