

XR® 8300



They feature new improved low noise mic preamps, multi point clip sampling and a new subsonic filter to prevent low frequency power robbing. New graphic equalizers have multi-Q bandwidth to allow some filters to perform feedback control while others perform tone control and have Peavey's patented FLS® (Feedback Locating System).

Features:

- 8 improved, low-noise, mic preamps
- 10 line inputs
- 3-band equalization on each channel
- Monitor send on each channel
- Effects send on all channels
- 25 dB pad: channels 1–6
- Dual main or main/monitor power amp mode switch
- Dedicated 7-band EQ for mains/monitors with FLS™
- DSP-based effects; 16 presets with parameter control
- Signal/clipping indicator on each channel
- 48 Volt phantom power
- Dual 300 Watt per channel internal power amplifiers (XR8300)
- DDT speaker protection with activity LED
- Mute switch for input channels 1–8

XR[®] 8300

Input Specifications

Function	Input Z (ohms) Min	Input Gain Control Settings	Input Levels			Bal Unbal	Connector
			Min**	Nominal*	Max		
Lo-Z Mic (150 ohms)	2k	Max w/o pad (50dB) Max w/pad (25dB)	-59dBu -34dBu	-29dBu -4dBu	-11dBu +14dBu	Bal	XLR Pin 1 Gnd Pin 2 (+) Pin 3 (-)
Line Input	22k	Max w/o pad (30dB) Max w/pad (25dB)	-27dBu -2dBu	+2dBu +27dBu	+21dBu +26dBu	Bal	1/4" TRS; Tip (+) Ring (-) Sleeve Gnd
Tape	20k	Max Gain (30dB)	-26dBu	+4dBu	+21dBu	Unbal	RCA jacks

0dBu = 0.775V (RMS)

** Minimum input level (sensitivity) is the smallest signal that will produce nominal output (4dBu) with channel and master controls set for maximum gain.

* Nominal settings are defined as all controls set at 0dB (or 50% rotation for rotary pots).

Output Specifications

Function	minimum Load Z (ohms)	Nominal	Max	Bal Unbal	Connector
Main	600	+4dBu	+21dBu	Unbal	1/4" Phono Tip (+) Sleeve Ground
Monitor	600	+4dBu	+21dBu	Unbal	1/4" Tip (+) Sleeve Ground
Tape	10k	-10dBu	+10dBu	Unbal	RCA

+4dBu = 1.23V (RMS)

XR[®] 8300

Gain: Mic Input to Main Output Line Input to Main Output	60dB (Max Gain) 30dB (Max Gain)
Frequency Response: Mic Input to Main Output Line Input to Main Output To Power Amplifier Output	20Hz-20kHz +0dB/-1dB 20Hz-20kHz +0dB/-1dB 40Hz-20kHz +0dB/-1dB
Total Harmonic Distortion: <0.01% 20Hz-20kHz Mic Input to Main/Monitor Output at Nominal Level (20Hz-80kHz BW) <0.01% 20Hz-20kHz Line Input to Main/Monitor Output at Nominal Level (20Hz-80kHz BW) <0.005% Typical @ 1kHz	
Graphic Equalizer: Filter Frequencies Maximum Boost and Cut	80, 250, 500, 1k, 2k, 4k, 10k +12dB Boost, -12dB Cut

Hum and Noise

Output	Residual Noise Ref: 4dBu	Test Conditions
Main	-102dB -90dB	All controls down 1 channel nominal, Master nominal
Monitor	-98dB -90dB	All controls down 1 channel nominal, Master nominal Master Fader Nominal, Channel Fades Nominal, Mic Inputs Terminated @ 150 ohms

Hum and Noise measurements: 22Hz-22kHz BW

S/N Ratio:

>90dB below rated power output, Mic/Line to Speaker Output

Equivalent Input Noise (EIN)

-122dBu (Input terminated with 150 ohms)

Crosstalk

>80dB Adjacent Input Channels (20Hz-20kHz)

>70dB Left to Right Outputs (20Hz-20kHz)

Common Mode Rejection Ratio (Mic Input)

50dB minimum (20Hz-20kHz)

60dB typical @ 1kHz



MediaMatrix®

SPECIFICATIONS

peavey.com

XR® 8300

XR 8300 - Power Amplifier Specifications

Power Section:

400 SC Module with DDT

Rated Power:

300W program into 4 ohms, both channels driven/210W RMS into 4 ohms, both channels driven.
215W program into 8 ohms, both channels driven/150W RMS into 8 ohms, both channels driven.

Frequency Response:

20Hz-20kHz +0dB/-1dB @ rated power

Total Harmonic Distortion (THD)

<0.02% @ rated output @ 1kHz

DDT Dynamic Range:

Greater than 26dB

DDT Maximum Distortion:

Below 0.5% THD for 6dB overload
Below 1% THD for 20dB overload

Hum and Noise:

95dB below rated power level (300W)

Damping Factor:

Greater than 100 @ 1kHz, 4 ohms

Input Sensitivity:

1.225 V RMS for rated power output

Input Impedance:

11k ohms

Power Requirements:

DOM: 120VAC 60Hz 360W nominal
EXP: 220-230VAC/240VAC 50/60Hz 360W nominal

Dimensions (WxDxH):

19.125" x 10.875" x 11"

Weight:

35.6 lbs



Logo referenced in Directive 2002/96/EC Annex IV (OJ(L)37/38,13.02.03 and defined in EN 50419: 2005
The bar is the symbol for marking of new waste and is applied only to equipment manufactured after 13 August 2005



Commercial Audio

XR 8300 - Pg. 4

Features and specifications subject to change without notice.

Peavey Electronics Corporation
5022 Hartley Peavey Drive
Meridian, MS 39305
(601) 483-5365 • FAX (601) 486-1278 • www.peavey.com

PRINTED IN THE U.S.A.

05/2011