

# XR<sup>®</sup> 8600D



The XR 8600 powered mixer include many of the latest technological developments from Peavey engineering. Incorporating a pair of 600 Watt amplifiers, dual 7-band EQ, digital effects, FLS<sup>®</sup> (Peavey's award-winning Feedback Locating System), DDT<sup>™</sup> speaker protection and a host of other features, these compact powered mixers are perfect for any application.

## Features:

- 8 improved, low-noise, mic preamps
- 10 line inputs
- 3-band equalization on each channel
- Monitor send on each channel
- 25 dB pad: channels 1-6
- Dual main or main/monitor power amp mode switch
- Dedicated 7-band EQ for main/monitors with FLS<sup>™</sup>
- DSP-based effects
- 16 presets with parameter control
- Dual 600 Watt per channel internal power amplifiers
- DDT<sup>™</sup> speaker protection with activity LED
- Mute switch for input channels 1-8
- Signal/clipping indicator on each channel
- 48 Volt phantom power

## XR<sup>®</sup> 8600D

### 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<sup>®</sup> 8600D

<b>Gain:</b> Mic Input to Main Output Line Input to Main Output	60dB (Max Gain) 30dB (Max Gain)
<b>Frequency Response:</b> 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
<b>Total Harmonic Distortion:</b> <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	
<b>Graphic Equalizer:</b> 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



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# SPECIFICATIONS

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## XR® 8600D

### XR 8600D - Power Amplifier Specifications

**Power Section:**

1200 D Module with DDT™

**Rated Power:**

600W program into 4 ohms, both channels driven / 500W RMS into 4 ohms, both channels driven  
360W program into 8 ohms, both channels driven / 300W RMS into 8 ohms, both channels driven

**Frequency Response:**

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

**Total Harmonic Distortion (THD)**

<0.01% @ 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 (500W)

**Damping Factor:**

Greater than 100 @ 1kHz, 4 ohms

**Input Sensitivity:**

2.5 V RMS for 500W @ 4 ohms

**Input Impedance:**

8.25k ohms

**Power Requirements:**

DOM: 120VAC 60Hz 275W nominal  
EXP: 220-240 VAC 50/60Hz 275W nominal

**Dimensions (WxHxD):**

21" x 11.75" x 12.375"

**Weight:**

23.8 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



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Features and specifications subject to change without notice.

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