

## XR® 1220



Console style mixer/amp, 20 channels with XLR mic inputs plus stereo line inputs on channels 19 & 20, 60 mm faders, 4 band EQ with mid-morph technology, 2 monitor sends, 1 EFX send, pan pot, PFL and Mute switches. Dual 600W @ 4 ohm Class D power amps, 2 combo (Speakon and 1/4") connectors per amp channel, digital EFX (w/footswitch defeat and tap function). Auto EQ feature (with dedicated RTA input), Feedback Ferrets and digital graphic EQ's that are dedicated to each amplifier. Five power amp modes, including fully active subwoofer crossover. Full color box.

### Features:

- 12 XLR mic channels
- Dual 600W amps lightweight Class D
- Auto GEQ
- Feedback Ferret(r)
- 4-band EQ on input channels
- Digital effects
- Rack mountable
- Dual 9-band graphic EQ
- Two monitor sends
- Dedicated effect return fader

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### INPUT SPECIFICATIONS

FUNCTION	INPUT Z (MIN OHMS)	INPUT GAIN SETTINGS	INPUT LEVELS			BAL/ UNBAL	CONNECTOR XLR: PIN 1 GND.
			MIN.*	NOMINAL**	MAX.		
XLR (150 Ohms)	2.2 k	Max Gain (57 dB) Min Gain (3 dB)	-73 dBu	-53 dBu	-35 dBu	Bal.	Pin 2 (+) Pin 3 (-)
Line Input (10 k ohms)	10 k	Max Gain (37 dB) Min Gain (-17 dB)	-53 dBu	-33 dBu	-15 dBu	Bal.	1/4" TRS: Tip (+) Ring (-) Sleeve Gnd.

\* Minimum input level (sensitivity) is the smallest signal that will produce nominal output (+4 dBu) with sub and master controls set for maximum gain.  
 \*\*Nominal settings are defined as all controls set at 0 dB (or 50% rotation for rotary pots) except the gain adjustment pot, which is as specified.

### OUTPUT SPECIFICATIONS

FUNCTION	MIN. LOAD (OHMS)	OUTPUT LEVEL		BAL/ UNBAL	CONNECTOR(S)
		MIN.	MAX.		
Main L/R	600	+4 dBu	+22 dBu	Bal.	XLR: Pin 1 Gnd Pin 2 (+) Pin 3 (-)
Monitor	600	+4 dBu	+22 dBu	Bal.	1/4" TRS: Tip (+) Ring (-), Sleeve Ground
EFX	600	+4 dBu	+22 dBu	Bal.	1/4" TRS: Tip (+) Ring (-), Sleeve Ground
Tape	600	+4 dBu	+22 dBu	Unbal.	RCA Phono
Headphone	8	+4 dBu	+22 dBu (No Load)	Unbal.	1/4" TRS: Tip Left Ring Right Sleeve Gnd

0 dBu = 0.775 V RMS

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### HUM & NOISE

Output	Residual Noise	S/N Ratio (Ref. +4 dBu)	Test Conditions
Master L/R Mono	-95 dBu	99 dB	Master Fader Down, Channels Muted
	-90 dBu	94 dB	Master Fader Nominal, Channels Muted
	-82 dBu	86 dB	Master Fader Nominal, Channel Faders Nominal Panned Odd Channels (left), Even Channels (right)
Mono/Subwoofer	-95 dBu	99 dB	All Controls Off
	-90 dBu	94 dB	All Channel Sends Nominal, Masters Nominal
Monitor Sends	-95 dBu	99 dB	All Controls nominal_ mic gain min
	-85 dBu	89 dB	All Channel Sends Nominal, Masters Nominal
Effects Send	-90 dBu	94 dB	All Controls Off
	-85 dBu	89 dB	All Channel Sends Nominal

(Hum & Noise measurements: 22 Hz to 22 kHz BW)

### GAIN

Mic input gain adjustment range: 3 dB to 57 dB  
 Mic input to any output: 77 dB (max. gain)  
 Stereo Channel in to any output: 37 dB (max. gain)

### CHANNEL EQ

High Shelving ±15 dB @ 12kHz  
 Mid-morph +15 dB @ 4kHz  
 -15 dB @ 2kHz  
 Low-mid ±15 dB @ 450Hz  
 Low ±15 dB @ 80Hz

### FREQUENCY RESPONSE

Mic input to L/R output: 11 Hz to 30 kHz (+0 dB / -1 dB)

### TOTAL HARMONIC DISTORTION (THD)

< 0.01%, 20 Hz to 20 kHz Mic to Left/Right Output (22 Hz to 80 kHz BW)  
 < 0.003% Typical (22 Hz to 22kHz BW)

### EQUIVALENT INPUT NOISE (EIN)

-128 dBu (input terminated with 150 ohms, max gain)

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### CROSSTALK/ATTENUATION

Adjacent Input Channels	(1kHz) > 90 dB
Left to Right outputs	(1kHz) > 85 dB
Mute Button Attenuation	(1kHz) > 90 dB
Channel Fader Kill	(1kHz) > 80dB

### COMMON MODE REJECTION RATIO (MIC INPUT)

60 dB min. (20 Hz to 20 kHz)  
70 dB typ. @ 1 kHz

### 9-BAND GRAPHIC EQ FILTERS

Mains and Monitors ±12 dB @ 63, 125, 250, 500, 1k, 2k, 4k, 8k & 16kHz

### METERS

8-segment peak reading (0 dB = +4 dBu)  
Signal/Overload Indicators  
Red LED illuminates 2 dB below clipping

### POWER SECTION

#### POWER AND LOAD:

600 Watts Program into 4 Ohms, both channels driven  
500 Watts RMS per channel into 4 Ohms, both channels driven  
360 Watts Program into 8 Ohms, both channels driven  
300 Watts RMS per channel into 8 Ohms, both channels driven

#### OUTPUT CONNECTIONS:

Speakon<sup>®</sup> – ¼" Phone combo output connectors are compatible with Neutrik NL2FC and NL4FC cable connectors and ¼" phone plugs. Speakon connections are made to 1+ and 1- only.

#### FREQUENCY RESPONSE:

20 Hz–20 kHz (+0/-1 dB)

#### TOTAL HARMONIC DISTORTION:

<0.1% at 500Watts per channel @ 1kHz both channels driven

#### HUM & NOISE:

95 dB below rated power level (600 Watts)

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### DDT™ DYNAMIC RANGE:

Greater than 12 dB

### POWER REQUIREMENTS:

Dom: 120VAC 60Hz; 275 W nominal

Export: 220-240VAC 50/60Hz; 275 W nominal

**DIMENSIONS:** XR<sup>®</sup> 1212 Inches: 16.5 X 17 X 5.5 mm: 419 X 432 X 140

**WEIGHT:** XR 1212 18.4 lbs 8.4 kg

**DIMENSIONS:** XR 1220 Inches: 24 X 17 X 5.5 mm: 610 X 432 X 140

**WEIGHT:** XR 1220 25 lbs 11.4 kg

