

PreSonus StudioLive 16.0.2 USB 16-Channel Performance and Recording Digital Mixer with USB

Microphone Preamp	
Type	XLR Female, Balanced
Frequency Response to Direct Output (at unity gain)	20 Hz-20 kHz, 0 / -0.5 dBu
Frequency Response to Main Output (at unity gain)	20 Hz-20 kHz, ± 0.5 dBu
Input Impedance (Balanced)	1 k Ω
THD to Direct Output (1 kHz at unity gain)	<0.005%, +4 dBu, 20 Hz-20 kHz, unity gain, unwt'd
THD to Main Output (1 kHz at unity gain)	0.005%, +4 dBu, 20 Hz-20 kHz, unity gain, unwt'd
EIN to Direct Output	+125 dB unwt'd, +130 dB A-wtd
S/N Ratio to Direct Output (Ref = +4 dB, 20 kHz BW, unity gain, A-wtd)	-102 dB
S/N Ratio to Main Output (Ref = +4 dB, 20 kHz BW, unity gain, A-wtd)	-95 dB
Common Mode Rejection Ratio (1 kHz at unity gain)	+65 dB
Gain Control Range (± 1 dB)	-16 dB to +67 dB
Maximum Input Level (unity gain)	+16 dBu
Phantom Power (± 2 VDC)	+48 VDC

Line Inputs, Balanced	
Type	$\frac{1}{4}$ " TRS Female, balanced mono
Frequency Response to Direct Outputs (at unity gain)	10 Hz-20 kHz, 0 / -0.5 dBu
Frequency Response to Main Outputs (at unity gain)	20 Hz-20 kHz, 0/-0.5 dBu
Input Impedance	10 k Ω
THD to Direct Output (1 kHz at unity gain)	<0.0007%, +4 dBu, 20 Hz-20 kHz, unity gain, unwt'd
THD to Main Output (1 kHz at unity gain)	<0.005%, +4 dBu, 20 Hz-20 kHz, unity gain, unwt'd
S/N Ratio to Direct Output (Ref = +4 dBu, 20 kHz BW, unity gain, A-wtd)	-105 dB
S/N Ratio to Main Output (Ref = +4 dBu, 20 kHz BW, unity gain, A-wtd)	-95 dB
Gain Control Range (± 1 dB)	-20 dB to +20 dB
Maximum Input level (unity gain)	+22 dBu

Line Inputs, Unbalanced	
Type	RCA Female, unbalanced (stereo pair)
Maximum Input Level	+22 dBu

Main Outputs	
Type	XLR Male, balanced (stereo pair); $\frac{1}{4}$ " TRS Female, balanced (stereo pair)
Rated Output Level	+24 dBu
Output Impedance	100 Ω

Aux Outputs	
Type	$\frac{1}{4}$ " TRS Female, balanced (mono)
Rated Output Level	+18 dBu
Output Impedance	100 Ω

Monitor Outputs	
Type	$\frac{1}{4}$ " TRS Female, balanced (stereo pair)
Rated Output Level	+18 dBu
Output Impedance	100 Ω

System Crosstalk	
Input to Output (Ref = +4 dBu, 20 Hz-20 kHz, unwt'd)	-90 dBu
Adjacent Channels (Ref = +4 dBu, 20 Hz-20 kHz, unwt'd)	-87 dBu

Noise Gate (Expander)	
Threshold Range	-84 dB to 0 dB
Attack Time	Adaptive (0.2 - 2.5 ms)
Release Time	70 ms
Expander Attenuation Range	2:1

Compressor	

Threshold Range	-56 dB to 0 dB
Ratio	1:1 to 14:1
Response Time (Attack/Release)	0.2 ms / 1.0s ("Tight") to 180 ms / 1.0s ("Smooth")
Auto Attack and Release	Attack = 10 ms, Release = 150 ms
Curve Types	hard and soft knee

EQ	
Type	2nd-order shelving filter (Q = 0.55)
Low (Low-pass or Bandpass)	36 to 465 Hz, ± 15 dB
Mid	260 Hz to 3.5 kHz, ± 15 dB
High (High-pass or Bandpass)	1.4 kHz to 18 kHz, ± 15 dB

Digital Audio	
Host Interface	USB 2.0
ADC Dynamic Range (A-wtd, 48 kHz)	118 dB
DAC Dynamic Range (A-wtd, 48 kHz)	118 dB
Internal Processing	32-bit, floating point
Sampling Rate	44.1, 48 kHz
A/D/A Bit Depth	24 bits
Reference Level for 0 dBFS	+18 dBu

Clock	
Jitter	<20 ps rms (20 Hz - 20 kHz)
Jitter Attenuation	>60 dB (1 ns in \approx 1 ps out)

Power	
Connector	IEC
Input-Voltage Range	100 to 240 VAC (factory-configured for country of destination)
Power Requirements (continuous)	100W

Physical	
Length	15.56 inches (397 mm)
Width	16 inches (406 mm)
Maximum Height	5.5 inches (140 mm)
Weight	20 lbs.