

Specifications

Mic Preamp Connector	Female XLR Pin 2 Hot; Electronically balanced/unbalanced
Mic Preamp Input Impedance	1.9 k Ω
CMRR	>85 dB from 20 Hz to 3 kHz, >70 dB from 3 kHz to 20 kHz
Instrument Input Connector	Tip-Sleeve 1/4" Jack
Input Type	(instrument) Unbalanced
Instrument Input Impedance	500 k Ω
Max Input	(instrument) +21dBu unbalanced
Preamp Insert Connector	Tip-Ring-Sleeve 1/4", RF filtered
Preamp Insert Type	Unbalanced, Tip = send, Ring = return
Line Outputs (Preamp & Compressor/Limiter) Connector	Male XLR and Tip-Ring-Sleeve 1/4" (Pin 2 and Tip hot)
Line Outputs (Preamp & Compressor/Limiter) Type	Servo-balanced/unbalanced
Line Outputs (Preamp & Compressor/Limiter) Impedance	Balanced 30 Ω , unbalanced 15 Ω
Line Outputs (Preamp & Compressor/Limiter) Maximum Output Level	> +21 dBm (into a 600 ohm load)
Compressor Sidechain Insert Connector	Tip-Ring-Sleeve 1/4", RF filtered
Compressor Sidechain Insert Type	Unbalanced, Ring = output, Tip = input
Compressor Sidechain Insert Impedance	1 k Ω (output), 50 k Ω (input)
Vacuum Tube Type	12AU7A / ECC82
Vacuum Tube Grid Power Supply	+250V DC

Vacuum Tube Heater Power Supply	+12V DC
Frequency Response (Mic Input)	20 Hz to 50 kHz, +0/-1dB, 40 dB gain
Frequency Response (Instrument Input)	30 Hz to 70 kHz, +0/-1dB, unity gain
THD + Noise (Mic In to Line Out)	0.25% typical at 0 dBu out, 1 kHz, 40 dB gain
THD + Noise (Instrument In to Line Out)	0.2% typical at 0 dBu out, 1kHz, unity gain
Equivalent Noise Level	Typically > -123 dBu with a 150 Ω source load, 22 Hz to 22 kHz
Noise Floor	Mic Insert to Comp Output: <-93 dBu, unity gain, EQ flat and no gain reduction
Preamp Function Switches/Controls: Instrument Input	Selects between microphone XLR input and front panel 1/4" instrument input
Preamp Function Switches/Controls: +48V	Sends +48 VDC through 6.81 k Ω resistors to pins 2 and 3 of the microphone input
Preamp Function Switches/Controls: 20dB Pad	Attenuates the microphone input by 20 dB
Preamp Function Switches/Controls: Polarity Invert	Reverses pins 2 and 3 of the microphone input XLR
Preamp Function Switches/Controls: 80 Hz Low Cut	Enables an 80 Hz, 12 dB/octave high pass filter in the microphone and instrument signal path
Preamp Function Switches/Controls: Gain Control Range	$-\infty$ to +55 dB for Microphone Input; $-\infty$ to +40 dB for Instrument Input
Preamp Function Switches/Controls: Post Tube Attenuation	$-\infty$ to 0 dB
Preamp Function Switches/Controls: Peak Indicator	Illuminates RED when the Preamp is within 3 dB of clipping

EQ Low Frequency	100 Hz, Low-pass shelving filter
EQ High Frequency	10 kHz, High-pass shelving filter
EQ Mid Frequency	Sweepable from 100 Hz to 8 kHz
EQ Function Switches/Controls: Narrow	Selects the “Q” of the MID Frequency EQ. “OUT” position Q = 0.9; “IN” position Q = 2.9
EQ Gain	(All Bands) Sweepable from –15 to +15 dB
Compressor Threshold Range	-40 dBu to +20 dBu
Compressor Threshold Characteristic	Selectable OverEasy™ or Hard Knee
Compressor Ratio	Variable 1:1 to ∞:1; 60 dB maximum Compression
Compressor Attack/Release Modes	Selectable Manual or Auto
Compressor Manual Attack Time	Scalable program-dependent; Typically 400 dB/msec to 1 dB/msec
Compressor Manual Release Time	Scalable program-dependent; Typically 4000 dB/sec to 10 dB/sec
Compressor Auto Attack Time	Program-dependent, typically 15 ms for 10 dB, 5 ms for 20 dB, 3 ms for 30 dB
Compressor Auto Release Time	Program-dependent, typically 120 dB/sec
Compressor Output Level Control Range	-20 dB to +20 dB
Compressor Peak Indicator	Illuminates RED when the Compressor/Limiter is within 3 dB of clipping
Limiter Type	dbx PeakPlus™
Limiter Threshold Range	-4 dBu to + 22 dBu (off)
Limiter Ratio	∞:1
Limiter Attack and Release	Program-dependent
Power Supply	Universal switch-mode
Operating Voltage	100 – 240 VAC, 50/60 Hz
Power Requirements	20 Watts

Fuse	T2.5AL 250V
Turn-On Time	Approximately 2 seconds
Dimensions	3.5"H X 19"W X 8"D (88.9mmH X 482.6mmW X 203.2mmD)
Weight	8.1 lbs (3.7 kg)
Shipping Weight	11.0 lbs (5.0 kg)