

Technical Specifications

Microphone Preamp

Type	XLR Female, Class A XMAX
Maximum Input level (unity gain)	+9 dBu \pm 1.0 dB
Gain Control Range	43 dB (+12 to +55 dB)
Frequency Response to Analog Outputs	20 Hz to 20 kHz, +0.5/-1.5 dB
Frequency Response to USB (Direct)	20 Hz to 20 kHz, +0.5/- 1.5 dB
S/N Ratio to Outputs (+4 dBu)	94 dB
THD+N (min. gain, A-wtd)	< 0.01%
Input Impedance	1 k Ω
EIN (+55 dB gain, 150 Ω input, 20 Hz-22 kHz, A-wtd)	Mono Channels: < 128 dBu
Common Mode Rejection Ratio (1 kHz, +55 dB gain)	65 dB
Phantom Power	+48V, \pm 3V, Global

Note: All Channel Inputs sum through Mic preamp

Instrument Inputs

Type	1/4" TS Female, Unbalanced, Hi-Z
Maximum Input Level (min. gain, 1 kHz@0.5% THD+N)	+9 dBu \pm 1.0 dB
Gain Control Range	43 dB, \pm 1 dB (+12 to +55 dB)
Frequency Response to Analog Outputs	20 Hz to 20 kHz, +0.5/-1.5 dB
Frequency Response to USB (Direct)	20 Hz to 20 kHz, +0.5/-1.5 dB
Dynamic Range (min. gain, A-wtd)	> 105 dB
Dynamic Range (mid. Gain, unwtd)	> 108 dB
THD+N (1 kHz, -1 dBFS, A-wtd)	< 0.01%
THD+N (1 kHz, -1 dBFS, unwtd)	< 0.01%
Input Impedance	> 1 M Ω

Note: All Channel Inputs sum through Mic preamp

Line Inputs

Type	1/4" TRS Female, Balanced
Maximum Input Level (min. gain, 1 kHz@0.5% THD+N)	+26 dBu \pm 1.0 dB
Gain Control Range	Mono Channels: 40 dB, \pm 1 dB (-5 to +35 dB) Stereo Channels: 0 dB or +10 dB (+10 dB Boost)
Frequency Response to Analog Outputs	20 Hz to 20 kHz, +0.5/-1.5 dB
Frequency Response to USB (Direct)	20 Hz to 20 kHz, +0.5/-1.5 dB
S/N Ratio to Analog Outputs (+4 dBu)	85 dB
THD+N (1 kHz, -1 dBFS, A-wtd)	< 0.01%

Input Impedance (Balanced) 10 k Ω

Note: All Channel Inputs sum through Mic preamp

Main, Control Room, Monitor, and FX Outputs

Type (Main Outputs)	XLR Male, Impedance Balanced
Type (Control Room, Monitor, FX Outputs)	¼" TRS Female, Balanced
Rated Output Level (Main Outputs)	+24 dBu, \pm 1.0 dB
Rated Outputs Level (Control Room, Monitor, FX Outputs)	+18 dBu
Frequency Response	20 Hz to 20 kHz, +0.5/-1.5 dB
Dynamic Range (A-wtd)	> 108 dB
THD+N (Bandwidth 20 Hz - 20 kHz, -1 dBFS, unwt'd)	< 0.01%
Output Impedance	100 Ω

Headphone Output

Type	¼" TRS Female, Stereo, Unbalanced
Maximum Output Level	150 mW/channel @ 60 Ω
Frequency Response	20 Hz to 20 kHz, +0.5/-1.5 dB
Dynamic Range (A-wtd)	> 103 dB
THD+N (Bandwidth 20 Hz - 20 kHz, -1 dBFS, unwt'd)	< 0.01%

System Crosstalk

Input to Output (Ref = +4dBu, 20 Hz to 20 kHz, unwt'd)	-90 dBu
Adjacent Channels (Ref = +4 dBu, 20 Hz to 20 kHz, unwt'd)	-85 dBu

Signal Level LED

Signal	-30 dBFS (pre-EQ)
Clip	-3.0 dB before clip (pre- or post-EQ)

Channel EQ

Low Cut	100 Hz, -18 dB/Octave
High Shelving	\pm 15 dB @ 10 kHz
Mid Peaking (Mono Channels)	\pm 15 dB @ 140 Hz to 3.5 kHz (variable)
Mid Peaking (Stereo Channels)	\pm 15 dB @ 2.5 kHz
Mid-Band Q	Boost: 1.0, Cut: 2.5
Low Shelving	\pm 15 dB @ 100 Hz

Digital Audio

Host Interface	USB 2.0
ADC Dynamic Range (Component)	114 dB
ADC Dynamic Range (Measured: A-wtd, 48 kHz)	105 dB
DAC Dynamic Range (Component)	114 dB
DAC Dynamic Range (Measured: A-wtd, 48 kHz)	105 dB

Signal-to-Noise (a-weighted)	-96 dB
Bit Depth	24-bit
Internally Supported Sample Rates	44.1, 48, 88.2, 96 kHz
Jitter	< 80 ps RMS (20 Hz – 20 kHz)
Jitter Attenuation	> 60 dB (1 ns in => 1 ps out)

SD Recorder

Supported Media Format	FAT16 formatted SD™ card, FAT32 formatted SDHC™ card
Media Storage Capacity	SD card: 2 GB; SDHC card: 32 GB
Recording File Format	Stereo WAV
Playback File Formats	Stereo WAV, MP3 (96-320 kbs, 32 / 44.1 / 48 kHz)
Sampling Rate (WAV)	44.1 kHz
Bit Depth	Recording: 24-bit Playback: 16- or 24-bit

Power/Environmental

Connector	IEC
Input Voltage Range	90 to 240 VAC
Recommended Ambient Operating Temperature	0° to 40° Celsius / 32° to 104° Fahrenheit

Physical

Height	3.5" (89 mm)
Width (Chassis only)	18.9" (480 mm)
Depth	15.6" (397 mm)
Weight	14.1 lbs (6.4 kg)

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