

Appendix C: Specifications

Frequency Response

Mic Input to any Output (Trim at 0 dB):
+0, -1 dB,
20 Hz to 20 kHz
-3 dB,
10 Hz to 80 kHz

Distortion

THD and SMPTE IMD; 20Hz to 20kHz
Mic Input to Main Output:
< 0.005%
@ +4 dBu output

Noise

20 Hz to 20 kHz BW (150 Ω source impedance)
Equivalent Input Noise (EIN): -128 dBu
Residual Output Noise:
Channel & Main Mix levels off
Main, Ctrl Room, Phones: -102 dBu
Aux 1 Monitor out -82 dBu
Aux 2 EFX out -92 dBu

Common Mode Rejection Ratio (CMRR)

Mic In: 60 dB @ 1 kHz
Gain @ maximum

Crosstalk

Adjacent Inputs or Input to Output:
-85 dB @ 1 kHz

Input Gain Control Range

Mic In: +3 dB to +50 dB
Line In: -22 dB to +25 dB

Phantom Power

+48 VDC

Equalization

Mono Channel EQ:
High ± 15 dB @ 12 kHz
Low ± 15 dB @ 80 Hz
Stereo Channel EQ:
High ± 15 dB @ 12 kHz
Low ± 15 dB @ 80 Hz

Mixer Rated Output

Main, Aux, Control Room: +4 dBu
Maximum Rated Output: +18 dBu

Maximum Input Levels

Mic Input: +18 dBu,
Gain @ +3 dB
Inst Input: +18 dBu,
Gain @ -22 dB
Stereo Line Input, Tape Input, and Aux Return:
+18 dBu

Maximum Voltage Gain

Mic Input to:
Main Output: 74 dB
Tape Output: 74 dB
Aux Sends: 74 dB
Control Room Output: 84 dB
Phones Output: 84 dB
Inst Input to:
Main Output: 49 dB
Tape Output: 49 dB
Aux Sends: 49 dB
Control Room Output: 59 dB
Phones Output: 59 dB
Stereo Line Input to:
Main Output: 20 dB
Tape Output: 20 dB
Aux Send: 20 dB
Control Room Output: 30 dB
Phones Output: 30 dB
Tape Input to:
Main Output: 10 dB
Tape Output: 10 dB
Control Room Output: 10 dB
Phones Output: 10 dB
Aux Return to:
Main Output: 20 dB
Tape Output: 20 dB
Aux Send: 20 dB
Control Room Output: 30 dB
Phones Output: 30 dB

Input Impedance

Mic Input: 2.3 k Ω , balanced
Inst Input: 1 M Ω
Stereo Line Input: 20 k Ω , balanced
Stereo Aux Returns: 20 k Ω , balanced
CD/Tape In: 24 k Ω , unbalanced

Output Impedance

Main, Ctrl Room, Aux Sends: 120 Ω
Tape Output: 1 k Ω
Phones Output: 25 Ω

Channel Level Set LED (Sensitivity)

0 dBu
(normal operating level)

VU Meters

Main Left and Right
8 segments:
-24, -12, -4, 0, +4, +8, +12, Clip (+16)
0 LED = +4 dBu

AC Power Requirements

Internal Power Supply, standard IEC connector
Voltage Range:
U.S.: 120 VAC, 60 Hz
Europe: 240 VAC, 50 Hz
Japan: 100 VAC, 50/60 Hz
Korea: 220 VAC, 60 Hz

Physical Dimensions and Weight

Height:	Back: 5" (127 mm) Front: 2.5" (64 mm)
Width:	18.45" (469 mm)
Depth:	16.6" (422 mm)
Weight:	11.5 lbs (5.2 kg)

Internal Effects

32 bit EMAC processing, 2-channel	
Sample Rate:	31.25kHz
Bandwidth:	15.6kHz
Number of presets:	16
Parameters:	2 controls

Digital I/O

USB	
Bit Depth:	24 bit/16 bit
Sample Rates:	44.1 kHz, 48 kHz,
Output:	Main L and R output signal or Subgroup 1-2
Input:	Alternate source to stereo channel 15-16

Disclaimer

Since we are always striving to make our products better by incorporating new and improved materials, components, and manufacturing methods, we reserve the right to change these specifications at any time without notice.

System Requirements

Here are some of the computer requirements in order to use the mixer with a computer and to run the Tracktion software.

PC Requirements

- WINDOWS XP
- Intel Pentium 3 or 4, or AMD Athlon (750 MHz or better is recommended for Tracktion).
- At least 128 MB RAM; 256 MB is recommended for heavy-duty Tracktion work.
- Super VGA (1024 x 768) or higher-resolution video adapter and monitor.
- CD-ROM or DVD drive.
- Keyboard and Wheel Mouse or compatible pointing device.
- USB port

Macintosh Requirements

- Macintosh OS 10.3
- Power Mac G3, or G4, iMac, eMac, Powerbook G3 or G4, or iBook computer with 128 MB of physical RAM. (The original early PowerBook G3 upgrade cards are not supported by OS X).

Hard Drive Notes

- To record a one minute 24-bit/44.1 kHz mono track requires approximately 8 MB of hard drive space.
- Preferably, use a second drive for recording audio, not your main drive with the operating system.
- It is best if you can start with a freshly de-fragmented drive before recording.
- Backup your files and de-fragment your drive often.
- Did we mention backing up your files often?
- We do not want you to be sitting back relaxing in the pub after a long day's recording session of your finest work, when all along there is a doubt in the back of your mind about having backed up your files.