10 – Specifications

Audio specifications

Nominal input levels	
MIC L and **R** (XLR balanced)	–54dBu (**TRIM**=max) to –16dBu (**TRIM**=min)
LINE/GUITAR input in **LINE** position (1/4" jack, balanced)	–34dBu (**TRIM**=max) to +4dBu (**TRIM**=min)
LINE/GUITAR input in **GUITAR** position (1/4" jack, unbalanced)	–42.2dBV (**TRIM**=max) to –4.22dBV (**TRIM**=min)
INSERT returns	–10dBV
Maximum input levels	
MIC L and **R** (XLR balanced)	0dBu
LINE/GUITAR input in **LINE** position (1/4" jack, balanced)	+20dBu
LINE/GUITAR input in **GUITAR** position (1/4" jack, unbalanced)	+11.8dBV
INSERT returns	+6dBV
Input impedance	
MIC inputs (XLR balanced)	2.2kΩ
LINE/GUITAR input in **LINE** position (1/4" jack, balanced)	22kΩ
LINE/GUITAR input in **GUITAR** position (1/4" jack, unbalanced)	910kΩ
INSERT returns	100kΩ
Nominal output levels	
LINE OUTPUTs (unbalanced RCA)	–10dBV
INSERT sends	–10dBV
Maximum output levels	
LINE OUTPUTs (unbalanced RCA)	+6dBV
INSERT sends	+6dBV
PHONES (1/4" stereo jack)	+4.2dBV (100kΩ), phones level at –3dB

Maximum output power	
PHONES (1/4" stereo jack)	10mW + 10mW (40Ω), phones level at –3dB

Audio performance

Signal-to-noise ratio and dynamic range	
MIC IN to **INSERT** send	>100dB (A weighting, **TRIM**=min, input impedance at 150Ω)
LINE IN to **INSERT** send	>100dB (A weighting, **TRIM**=min, input impedance at 150Ω)
LINE IN (through ADC and DAC) to **LINE OUT**	>93dB (A weighting, **TRIM**=min, input impedance at 150Ω, **LINE OUT**=–3dB)
LINE IN (through direct monitor) to **LINE OUT**	>97dB (A weighting, **TRIM**=min, input impedance at 150Ω, **LINE OUT**=–3dB)
GUITAR IN to **INSERT** send	>98dB (A weighting, **TRIM**=min, output impedance at 600Ω)
LINE OUT (from digital source)	>99dB (A weighting, **LINE OUT**=–3dB)
Total harmonic distortion (THD)	
MIC IN to **INSERT** send	<0.007% (**TRIM**=min, 1kHz, +20dBu input)
LINE IN to **INSERT** send	<0.007% (**TRIM**=min, 1kHz, +20dBu input)
LINE IN (through ADC and DAC) to **LINE OUT**	<0.009%, +20dBu input, **LINE OUT**=–3dB, phones output at minimum)
LINE IN (through direct monitor) to **LINE OUT**	<0.009%, +20dBu input, **LINE OUT**=–3dB, phones output at minimum)
GUITAR IN to **INSERT** send	<0.05% (**TRIM**=min, 1kHz, –4.2dBV input)

10 – Specifications

Other characteristics

Digital audio		
A/D conversion		24-bit, 17 samples delay
D/A conversion		24-bit, 15.4 samples delay
Sampling frequencies		44.1kHz, 48kHz (software selectable)
MIDI		
MIDI IN and MIDI OUT ports		Conform to MIDI standards
Host computer compatibility		
Operating system	Windows	Windows 98SE, Windows Me, Windows 2000, Windows XP
	Macintosh	Mac OS 8.8 and above (pre-OS X) or OS 10.2.3 and above (OS X)
Communication		USB 1.1
Audio/MIDI interface protocols	Windows	ASIO, MME, GSIF
	Macintosh	ASIO, Sound Manager, CoreAudio and CoreMIDI (OS X), OMS, Free MIDI
Bundled software		Cubasis (not for OS X), Giga24 (Windows only)

Physical characteristics

Dimensions		
	External dimensions (w x h x d)	145 x 62 x 198 (mm), 5.7 x 2.4 x 7.8 ()in)
	Weight	925 g (2 lb)
Power		
	Supplied by USB connection	5V, maximum current 500mA

Dimensional drawing