

Specifications

Processing

Input Processing Channels	32 Input Channels, 8 Aux Channels, 8 FX Return Channels
Output Processing Channels	16 aux buses, 6 matrices, main LRC
Internal Effects Engines (True Stereo / Mono)	8 / 16
Internal Show Automation (Structured Cues / Snippets)	500 / 100
Internal Total Recall Scenes (incl. Preamplifiers and Faders)	100
Signal Processing	40-Bit Floating Point
A/D Conversion Dynamic Range	24-Bit, 114 dB (8-channel, 192 kHz ready)
D/A Conversion (stereo, 192 kHz ready)	24-Bit, 120 dB Dynamic Range

Connectors

MIDAS PRO Series Microphone Preamplifier (XLR)	32
Talkback Microphone Input (XLR)	1
RCA Inputs/Outputs	2/2
XLR outputs	8
Monitoring Outputs (XLR / ¼" TRS Balanced)	2/2
Aux Inputs/Outputs (¼" TRS Balanced)	6/6
Phones Output (¼" TRS)	2 (stereo)
Digital AES/EBU Output, XLR	1
AES50 Ports (KLARK TEKNIK SuperMAC)	2
Expansion Card Interface	32 Channel Audio Input / Output
ULTRANET P-16 Connector (No Power Supplied)	1
MIDI Inputs / Outputs	1/1
USB Type A (Audio and Data Import / Export)	1

Mic Input Characteristics (Mic input to analogue output)

Design	MIDAS PRO Series
THD+N (0 dB gain, 0 dBu output)	< 0.01% unweighted
THD+N (+40 dB gain, 0 dBu to +20 dBu output)	< 0.03% unweighted
Input Impedance (Unbalanced / Balanced)	10 kΩ / 10 kΩ
Non-Clip Maximum Input Level	+23 dBu
Phantom Power (Switchable per Input)	+48 V
Equivalent Input Noise @ +45dB gain (150 Ω source)	-125 dBu 22Hz-22kHz unweighted
CMRR @ Unity Gain (Typical)	> 60 dB



Input/Output Characteristics

Frequency Response @ 48 kHz Sample Rate, 0 dB to -1 dB	10 Hz – 22 kHz
Dynamic Range, Analogue In to Analogue Out (Typical)	106 dB
A/D Dynamic Range, Preamplifier and Converter (Typical)	109 dB
D/A Dynamic Range, Converter and Output (Typical)	109 dB
Crosstalk Rejection @ 1 kHz, Adjacent Channels	100 dB
Output level, XLR Connectors (Nominal / Maximum)	+4 dBu / +21 dBu
Output Impedance, XLR Connectors (Unbalanced / Balanced)	50 Ω / 50 Ω
Input impedance, TRS Connectors (Unbalanced / Balanced)	20 kΩ / 40 kΩ
Non-Clip Maximum Input Level, TRS Connectors	+21 dBu
Output Level, TRS (Nominal / Maximum)	+4 dBu / +21 dBu
Output Impedance, TRS (Unbalanced / Balanced)	50 Ω / 50 Ω
Phones Output Impedance / Maximum output Level	40 Ω / +21 dBu (Stereo)
Residual Noise Level, Out 1-16 XLR Connectors, Unity gain	-85 dBu 22Hz-22kHz unweighted
Residual Noise Level, Out 1-16 XLR Connectors, Muted	-88 dBu 22Hz-22kHz unweighted
Residual Noise Level, TRS and Monitor out XLR Connectors	-83 dBu 22Hz-22kHz unweighted

Display

Main Screen	7" TFT LCD, 800 x 480 Resolution, 262k Colours
Channel LCD Screen	128 x 64 LCD with RGB Colour Backlight
Main Meter	24 Segment (-57 dB to Clip)

Power

Switch-Mode Power Supply	Auto-Ranging 100-240 VAC (50/60 Hz)
Power Consumption	120 W

Physical

Standard Operating Temperature Range	5°C – 40°C (41°F – 104°F)
Dimensions	890.9 x 607.0 x 256.0 mm (35.1 x 23.9 x 10.1")
Weight	24.5 kg (53.9 lbs)