Processing

Input Processing Channels	32 Input Channels, 8 Aux Channels, 8 FX Return Channels
Output Processing Channels	16
16 aux buses, 6 matrices, main LRC	100
Internal Effects Engines (True Stereo / Mono)	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 (8-channel, 96 kHz ready)	114 dB Dynamic Range (A-weighted*)
D/A Conversion (stereo, 96 kHz ready)	120 dB Dynamic Range (A-weighted*)
I/O Latency (Console Input to Output)	0.8 ms
Network Latency (Stage Box In > Console > Stage Box Out)	1.1 ms

Connectors

Midas PRO Series Microphone Preamplifier (XLR)	32
Talkback Microphone Input (XLR)	1
RCA Inputs / Outputs	2
XLR Outputs	16
Monitoring Outputs (XLR / ¼" TRS Balanced)	2
Aux Inputs/Outputs (¼" TRS Balanced)	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
USB Type A (Audio and Data Import / Export)	1
USB Type B, rear panel, for remote control	1
Ethernet, RJ45, rear panel, for remote control	1

Mic Input Characteristics

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 @ +45 dB gain	-125 dB (22 Hz-22 kHz, unweighted)
CMRR @ Unity Gain (Typical)	>70 dB
CMRR @ 40 dB Gain (Typical)	>90 dB

Input/Output Characteristics

Frequency Response @ 48 kHz Sample Rate	0 dB to -1 dB (20 Hz-20 kHz)
Dynamic Range, Analogue In to Analogue Out	106 dB (22 Hz-22 kHz, unweighted)
A/D Dynamic Range, Output (Typical)	109 dB (22 Hz-22 kHz, unweighted)
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 22 Hz-22 kHz unweighted
Residual Noise Level, Out 1-16 XLR Connectors, Muted	-88 dBu 22 Hz-22 kHz unweighted
Residual Noise Level, TRS and s Monitor out XLR Connector	-83 dBu 22 Hz-22 kHz 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) ± 10%
Power Consumption	120 W

Physical

Standard Operating Temperature Range	5°C – 40°C (41°F – 104°F)
Dimensions	891 x 612 x 256 mm (35.1 x 24.1 x 10.1")
Weight	25 kg (55 lbs)

* A-weighted figures are typically ~3 dB better