

Network Solid State Recorder **PMD580**



Expanding on the legacy of reliable, professional recording of the PMD560 and PMD570 solid state recorders for permanent installations, Marantz Professional is pleased to present the PMD580, a single rack-space digital recorder that adds advanced network control, automatic archiving, and high-resolution recording to the capabilities of this popular line.

Like its line mates, the PMD580 uses proven, stable Compact Flash (CF) as its recording medium, with the inherent reliability of no moving parts. But the PMD580 takes convenience and functionality to another level, incorporating Ethernet connectivity and an internal, web interface that allows centralized control of all operations including scheduling of recordings, machine setup, and file transfer.

With high resolution, 24-bit recording, professional analog and digital I/O hardware, RS232 control, and a myriad of other advanced features, the PMD580 is the ideal recording device for facilities such as universities, corporate meeting rooms, government buildings, churches, and broadcast organizations.

Key Features

- Choice of 24-bit or 16-bit Recording onto Compact Flash (CF) Card
- Ethernet Connectivity with Internal Web-based GUI
- Automatic Archiving of Recorded Files to the Network
- Easy One-touch Recording
- MP3 and WAV File Formats
- Menu-selectable Quality Settings
- Balanced XLR Inputs and Outputs
- AES/EBU and S/PDIF Digital Inputs and Outputs
- RS232 Control Port
- No Moving Parts
- Contact Closure remote with Menu-driven Control

Network Operation and Control with Record Scheduling

With its Ethernet connectivity and internal Web GUI, the PMD580 operates as a website, addressable from any computer on the network, allowing full remote setup and control. This web interface is integral to the design, requiring no extra software and compatible with both PC and Mac network environments. Recording sessions can be scheduled in advance, and recorded files can be downloaded directly to a computer.

Automatic Archiving

For ultimate convenience, an automatic archiving feature allows the uploading of recorded files to any specified network location, eliminating the need to physically walk the CF card back to the storage

server. With the ability to lock out front panel controls and track real time, the user can confidently schedule the day's recording to be archived to a designated computer or server at the end of the day, so the PMD580 is always ready to handle the next day's activities. And with its FIFO based file deletion, card maintenance can be completely avoided for a fully automated recording system.

Professional Quality Digital Recording

With a choice of 16 or 24-bit recording in a variety of file formats and quality settings, the PMD580 can handle everything from orchestral music to meetings and lectures with equal aplomb. Utilizing its full complement of professional balanced and unbalanced digital and analog inputs furthers its recording qualities and capabilities.

Flexible File Formats

The PMD580 can record uncompressed WAV or compressed MP3 files across a variety of quality settings, with sample rates up to 48 kHz. Assignable options are accessible from the menu – front panel or Web-GUI, making it simple even for inexperienced operators to select the best option for their application.

Ease of Operation

With its intuitive front panel controls and menu-driven setup, the PMD580 is easy to use. A front-panel screen guides the user through selection of file format and quality settings, while a 12-stage stereo VU meter and headphone output with volume control enable quick and sure confirmation of recording status.

Continued on next page

PMD580

Continued from previous page

System Compatibility

With full professional inputs and outputs, both analog and digital, the PMD580 integrates easily into any system. Analog I/O includes both balanced XLR and unbalanced RCA connections, while digital capabilities include both AES/EBU and S/PDIF inputs and outputs. Beyond that, an RS232C port enables remote control in Crestron and AMX systems, while an Ethernet connection makes the PMD580 a full-fledged network device for both acquisition and playback.

Convenience Features

The PMD580 includes numerous functional recording and editing features. Files can be marked and divided either manually while recording, as well as automatically in predefined increments, making it easier to sort through hours of recorded materials. Whether used manually, via RS232 control or via its IP network interface, the PMD580 offers both comprehensive recording capability and ease of operation, making it the ultimate solid state recorder for the installation market.



Specifications

Digital Audio System

System	Solid State Recorder
Usable Media	CF Memory Cards, Microdrive Cards
Recording and Media Methods	
MP3	MPEG1 Layer III Compression
WAV	16/24 Bit Linear PCM
Recording MP3 Bit-rate (Selectable)	
Mono	160, 128, 96, 64, 32 kbps
Stereo	320, 256, 192, 128, 64 kbps
Sampling Frequency	44.1/48 kHz
Number of Channels	2 (Stereo), 1 (Mono)
Audio Frequency Response	10 to 20,000 Hz \pm 1.0 dB
Signal-to-noise Ratio, IEC-A Weighted	91 dB
Total Harmonic Distortion at 0 VU	0.01%
Dynamic Range	94 dB

Inputs

Balanced Input	
Type	XLR (1:GND, 2:HOT, 3:COLD)
Input Sensitivity	+4 dBu/-20dBu/24 kohms
Unbalanced Input	
Type	RCA Jack
Input Sensitivity	500 mVrms/22 kohms
Balanced Digital Input	
Type	XLR (1:GND, 2:HOT, 3:COLD)
Sampling Frequency	44.1/48 kHz
Format	AES/EBU or SPDIF (IEC 958 Type II)
Unbalanced Digital Input	
Type	RCA Jack
Input Impedance	75 kohms
Standard Input Level	0.5 Vp-p
Sampling Frequency	44.1/48 kHz
Format	AES/EBU or SPDIF (IEC 958 Type II)

Outputs

Balanced Output	
Type	XLR (1:GND, 2:HOT, 3:COLD)
Level	+18 dBu (+4 dBu Reference)/600 kohms
Unbalanced Output	
Type	RCA Jack
Standard Level	2 Vrms (+4 dBu Reference)/10 kohms

Balanced Digital Output

Type	XLR (1:GND, 2:HOT, 3:COLD)
Output Impedance	110 ohms
Standard Output Level	3.5 Vp-p
Format	AES/EBU or SPDIF (IEC 958 Type II)

Unbalanced Digital Output

Type	RCA Jack
Output Impedance	75 ohms
Standard Output Level	0.5 Vp-p
Sampling Frequency	44.1/48 kHz
Format	AES/EBU or SPDIF (IEC 958 Type II)

LAN Interface

Format	10Base-T/100Base-TX
Transmission Rate	10/100 Mbps
Connector	8pin RJ-45

General

Power Requirements	
U.S. Model	AC 120 V 60 Hz
European Model	AC100 -240 V 50/60 Hz
Power Consumption	26 W
Environmental Conditions	
Operational Temperature	5-35 °C (41-95 °F)
Operational Humidity	25 - 85% (No Condensation)
Storage Temperature	-20 - 60 °C (-4 - 140 °F)
Headphone Output Power	18 mW+ 18 mW/32 ohms
Dimensions	
Width	483 mm (19.0")
Height	44 mm (1.7")
Depth	344 mm (13.5")
Weight	3.7 kg (8.2 lbs)

Included Accessories

Power Cord (for U.S.)	1
Power Cord (for Europe)	2
USB Cable	1
Audio Cable	2
CF Door Screw	2
Retainer	1
User Guide	1
CD-ROM	1
Customer Registration Document (Only for U.S.)	1

* Specifications are subject to change without notice.

D&M Professional
 1100 Maplewood Drive Itasca, Illinois 60143
 Tel: 630.741.0330 Fax: 630.741.0652
 www.d-mpro.com