

## High Resolution Compact Flash Recorder

# PMD671

*No compromises.* It's a phrase that field professionals aren't used to hearing. And it's precisely what the new PMD671 delivers. The original PMD670 flash recorder created a new standard in features and reliability among field recorders and the PMD671 continues that trend. Like its predecessor, the PMD671 records to CF media cards, offers multiple recording modes, long record and battery times, balanced mic inputs with phantom power, and a long list of technical and design features for professional applications. But the PMD671 offers something new, and we're not just talking bells and whistles.

*Marantz has raised the bar, exponentially.* The PMD671 can record 24-bit, 96 kHz audio for the highest sound quality available in the field or even in the studio. The ability to read-after-write offers completely new levels of functionality never before available in a field recorder. Even the mic preamps have been dramatically improved. Then add programmable presets, and changing formats on the fly is as easy as pressing a button.



Serious professionals need serious tools. If your application requires uncompromising audio, unflinching reliability, and unprecedented functionality, you owe it to yourself to take a very serious look at the PMD671.

### Key Features

- 24-bit, 96 kHz PCM capable for unrivaled fidelity
- "Virtual Third Head" for confidence monitoring (Read After Write)
- Time-Shift Playback capability for random access playback while recording
- No moving parts-no maintenance
- Built-in USB 2.0 port for ultra-fast, easy file transfer to PC
- Records uncompressed 16 and 24 bit PCM .wav files at 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48, 82 or 96 kHz
- Records .mp2 mono (32-192 kbps)
- Records .mp2 stereo (64-384 kbps)
- Records mono .mp3 files (16-160 kbps)
- Records stereo .mp3 files (32-320 kbps)
- A 1 GB CF card can hold almost 30 minutes of uncompressed stereo (24 bit, 96 kHz) PCM audio
- A 1 GB CF card can hold just over 90 minutes of uncompressed stereo (16 bit, 44.1kHz) PCM audio
- A 1 GB CF card can hold over 35 hours (stereo) or 70 hours (mono) .mp3 audio
- 4 to 6 hour audio life with standard AA alkaline batteries
- Optional rechargeable NiCd or NiMH batteries
- Built-in condenser mic for easy, true recordings
- Two XLR mic connections with +48v phantom power
- Dramatically upgraded microphone preamps
- RCA line I/O
- Built-in monitor speaker
- Optional RC600 wired remote control with peak indicator

### Unparalleled 24/96 Audio

Recording PCM audio at 24-bit resolution and 96 kHz sampling frequency is the absolute state of the art for digital audio applications. It offers 256 times the amplitude resolution, and more than twice the frequency resolution of compact discs. New microphone preamps have even been designed to take advantage of this quantum leap in fidelity.

### RAW (VTH-Virtual Third Head)

Professional analog recorders had a dedicated "third head" to monitor recorded signals after they were printed to tape. It was called, "confidence monitoring", because it allowed engineers to be 100% confident about what they had recorded as it was happening. The PMD671 is unique in offering the 21st century version of this same functionality, by playing back the recorded data simultaneously, rather than simply monitoring the input source.

### Time Shift (Time-Shift Playback)

The same technology that allows the virtual third head also allows time-shift playback capability. This means that as you continue to record an event, you can back up and listen to various parts, and then return to listening to the event in real-time. Court reporting and technical investigation may never be the same.

### Professional I/O

Let's face it: plugging professional-grade microphones into an 1/8" jack is asking for trouble. The PMD671 offers two balanced XLR mic inputs with +48v phantom power, and all new audiophile quality microphone preamps. Caught in a pinch? The PMD671 includes a condenser mic built right in. Of course, RCA stereo line I/O's and digital I/O's are also provided.

### Long Battery Life

Tired of lugging around six extra D-Cells just so you can interrupt your recording to change batteries half-way through an event? The PMD671 will run for four to six hours on regular alkaline AA batteries. Also available as optional accessories, the rechargeable NiCd battery (RB1100) will power the PMD671 for 4-5 hours while the NiMH battery (RB1651) will power the unit for 6-7 hours. And both batteries can be charged in the unit eliminating the need for carrying bulky battery chargers into the field.

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## Long Record Times

No more flipping tapes! A single 1 GB flash card can hold up to 70 hours of uninterrupted audio (monaural .mp3 at 32 kbps). For music recording, the same size card can hold more than 17 hours high-quality compressed stereo (.mp3 at 128 kbps).

## Solid State Technology

By storing audio data on Compact Flash (CF) media cards, all of the mechanical hassles of tape recorders are gone forever—as are the costs of servicing and maintaining them. Solid State Technology makes the PMD671 less vulnerable to bumps, vibrations, and sonic deterioration over the long haul. Not only that, but CF storage allows you to choose from several recording formats, and makes file transfers to computers a snap.

## USB 2.0 and file transfer

In the end, you'll probably want to transfer your audio to a PC for editing, and then burn it to CD for broadcast, evidence, documentation, or just for convenient playback. The PMD671's USB 2.0 port allows you to directly connect to a computer for blazing fast transfers. Alternatively, you can remove the CF card and use any standard CF card reader.

## Optional Wired Remote

It would be great if every recording situation had a field engineer running everything behind the scenes. Unfortunately, all too often it's just you, wishing you had more hands. The RC600 wired remote control enables you to start and pause recording, and to mark new track-starts on the fly. It even has a peak meter right on the remote, so you can keep an eye on your recording, without taking your eye off the ball.

## Specifications

### Digital Audio System

System	Solid State Recorder
Usable Media	CF memory/Microdrive cards
Recording and media methods	
.mp2	MPEG1 Layer II compression
.mp3	MPEG1 Layer III compression
.mp3	MPEG2 Layer III compression*
	*for all half sample rates.
PCM	16/24 bit linear PCM
Recording bit rate (selectable)	
MP2 mono	192, 128, 96, 64, 48, 32 kbps
MP2 stereo	384, 256, 192, 128, 96, 64 kbps
MP3 mono	160, 128, 80, 64, 40, 32, 24, 16 kbps
MP3 stereo	320, 256, 160, 128, 80, 64, 40, 32 kbps
Sampling frequency	
Analog	
24bit PCM	96, 88.2, 48, 44.1 kHz
16bit PCM	48, 44.1, 32, 24, 22.05, 16, 12, 11.025, 8 kHz
MP2	48, 44.1, 32 kHz
MP3	48, 44.1, 32, 24, 22.05, 16 kHz
Digital	
	96, 88.2, 48, 44.1 kHz
Number of channels	2 (stereo), 1 (mono)
Frequency response	44kHz (-0.5dB, fs=96kHz)
Signal-to-Noise Ratio	
IEC-A weighted	LINE 92 dB
	MIC 65 dB
Total Harmonic Distortion	
at 0 VU (PCM)	LINE 0.01%
	MIC 0.03%
Dynamic Range	94 dB
<b>Inputs</b>	
MIC IN L/R	
Type	XLR (1:GND, 2:HOT, 3:COLD)
Input Sensitivity (MIC)	1.2 mVrms/3 kohms
LINE IN L/R	
Type	RCA jack
Input Sensitivity	300 mVrms/22 kohms
DIGITAL IN	
Type	RCA jack
Input impedance	75 ohms
Standard input level	0.5 Vp-p

Sampling frequency	96, 88.2, 48, 44.1 kHz
Format	SPDIF (IEC 958 TypeII)

### Outputs

LINE OUT L/R	
Type	RCA jack
Standard level	2 Vrms max./2 kohms
DIGITAL OUT	
Type	RCA jack
Output impedance	75 ohms
Standard output level	0.5 Vp-p
Sampling frequency	96, 88.2, 48, 44.1 kHz
Format	SPDIF (IEC-958 Type II)

### General

Headphone Output power	20 mW/32 ohms
Speaker Output power	70 mW/4 ohms
Phantom power	+48V/7mA
Power consumption	
Recording/Playback	6 W
Charging	12 W max
Standby (battery driven)	2.9 mW
Battery life (Alkaline)	6 hours (typical)
Dimensions	
Width	10.4" (264 mm)
Height	2.0" (55 mm)
Depth	7.3" (185 mm)
Weight	2 lbs. 14 oz. (1.3 kg)
Included accessories	
AC adapter	1
Battery holder	1
Carry strap	1
Carry strap retainers	2
Screws (ISO 3x10 mm)	3
Plastic pin and retainer	1
USB cable	1
User Guide	1

### Optional accessories

Ni-Cd battery pack	RB1100
Ni-MH battery pack	RB1651
Carrying cover (vinyl)	CLC670
Mic Remote	RC600
Attache carrying case	CA200

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

PLEASE NOTE: Specifications are based on measurement conditions and proper care for the machine and are subject to change without notice.

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**DENON**  
PROFESSIONAL

**marantz**  
PROFESSIONAL

1 2 3 4 5 6 7 8 9  
min | max  
LEVEL