



## PMD650 Portable MiniDisc Recorder

The first in a new generation of portable digital recorders, Marantz Professional is proud to present the PMD650 Portable MiniDisc Recorder. The MiniDisc format has received considerable attention in many professional applications and the PMD650 fills the need as the first truly professional and affordable portable MiniDisc recorder.

The basic philosophy was simple - offer the same basic features as our legendary portable cassette recorders and establish a new benchmark of features and functions for the digital age.

One of the most important aspects of these new features centers around the safety of the recordings. Always a primary concern with digital recorders, the PMD650 secures all recordings by writing a backup of the Table of Contents (TOC) at the beginning of the track (Pre-UTOC). Even if a recording is interrupted by a power failure, all recorded information can be retrieved. Protection for late recording starts are protected by the Pre-Record Audio Cache that will store up to 2 seconds of audio while in the record-pause mode and then add that to the beginning of the track once recording is started.

To automate recording and save disc space, the PMD650 includes a sophisticated Level Sync Recording (LSR) system. The LSR system is programmed via the Preset menu and, when activated, controls the recording of the PMD650 based on the input sound levels. The parameters of the LSR system include sound threshold level (-10dB to -60dB), time below threshold level (2 to 10 seconds), and automatic or manual track increment.

For maximum versatility, the PMD650 provides various ways to record onto the disc. Either one or two mic/line sources can be recorded onto 1 (LP) or 2 (SP) tracks. When recording from one mic/line source onto 2 tracks, the PMD650 incorporates a dual mono mode that sets the level of the 2nd track 15dB lower than the first, so as to make sure that a backup track is available in the event of a problem or digital overload.

Groundbreaking new features and the design and quality Marantz is famous for, make the PMD650 the only choice for professional portable MiniDisc.

### KEY FEATURES

- Supports Recording in 2-Track SP (74 min.) or 1-Track LP (148 min.) mode
- MiniDisc Editing System: Divide, Combine, Move, Erase
- Time/Date Stamp
- Full Text Display and Editing
- 40 second (20 sec. 2-Track) Audio Buffer for Shock Resistance
- Pre-UTOC Writing at Track Start to Secure Recordings
- Pre-Record Audio Cache (up to 2 sec.)
- Control of SCMS On or Off
- One Touch Recording with Separate Rec-Pause Button
- Three Record Level Control Choices: Manual, Manual with Limiter, and Automatic
- Two Position Ambient Noise Cancel (ANC) Filter
- Programmable Level Sync Recording (LSR)
- A-B Loop Playback
- Repeat Playback (All or One Track)
- Stereo XLR Mic/Line Inputs
- 48V Phantom Power
- Variable Mic Attenuator (0, -15, -30dB)
- Stereo RCA Analog Line Outputs
- RCA Digital Input (SPDIF) with Sample Rate Converter
- XLR Digital Output (SPDIF)
- Remote Control (RC-5) Input
- Headphone Jack with Level Control
- Built-In Microphone & Speaker
- Backlit LCD Display
- 3-Way Power: AC Adapter, 8xAA Batteries, or Optional Ni-Cad Rechargeable Battery (RB1100)
- Low Battery Alarm
- Marantz Trademark Portable Design



## APPLICATIONS

**Broadcast/ENG:** From the start, the PMD650 was designed for Broadcast and Electronic News Gathering (ENG) professionals. A full complement of professional inputs and outputs allow total integration with professional broadcast studio and field equipment. The versatility to record either 1 or 2 tracks with any microphone combination allows customization for each individual requirement. All of the safety features built into the PMD650 ensure that an important interview or sound recording is always safe in any environment. An optional Reporter Bag (CLC600) provides storage and protection for the PMD650 and all the needed field recording accessories like microphones, cable, and batteries.

**Recording Studios:** The exceptional sound quality, cut and paste editing capability, and enhanced safety features of the PMD650 enables it to replace cassette and DAT recorders for location recording purposes. Back at the studio, professional inputs and outputs allow total integration with other professional equipment.

**Sound Production:** The PMD650 provides a high quality method of recording sound in the field. The built-in editing system allows tracks to be trimmed and combined in order to create custom sound files.

**Government:** Each MiniDisc can hold up to 148 minutes of audio from either one or two, microphone or line level sources. Every track recorded on the PMD650 is marked with the exact time and date of recording start, providing a reliable reference for archiving.

## INCLUDED ACCESSORIES

- Carrying Strap
- AC Adaptor

## OPTIONAL ACCESSORIES

- Protective Case (CLC650)
- Reporter Bag (CLC600)
- Ni-Cad Rechargeable Battery (Rb1100)

## TECHNICAL SPECIFICATIONS

### RECORDING SYSTEM

Recording Format.....	MD-Audio
Compression Algorithm.....	ATRAC (V4.0)
2-Track (SP) Recording Time.....	74min.
1-Track (LP) Recording Time.....	148min.

### OVERALL

Frequency Response.....	20-20kHz
THD+N.....	0.01%
Dynamic Range.....	>85dB
S/N Ratio (A-wtd).....	>90dB
Channel Separation.....	>80dB

### ANALOG INPUT

XLR Mic Level/Impedance.....	3.08mV/9k OHM
Phantom Power.....	48V (5mA)
XLR Line Level/Impedance.....	308mV/47k OHM

### ANALOG OUTPUT

RCA Line Level/Impedance.....	2.0V/2k OHM
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### DIGITAL INPUT

RCA Level/Impedance.....	0.5V/75 OHM
Sampling Frequency.....	32/44.1/48kHz
Format.....	SPDIF (IEC-958-II)

### DIGITAL OUTPUT

XLR Level/Impedance.....	3.3V/110 OHM
Sampling Frequency.....	44.1kHz
Format.....	SPDIF (IEC-958-II)

### DIMENSIONS/WEIGHT

Height.....	2.2" (55mm)
Width.....	10.4" (264mm)
Depth.....	7.3" (185mm)
Weight.....	2.8lbs. (1.3kg)

### POWER

Requirement.....	13VDC
Consumption-Playback.....	3.5W
Consumption-Recording.....	5.5W

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

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