

# SONY®

Get Studio-Quality Sound  
that Fits in the Palm of Your Hand  
with Sony's Most Advanced Portable DAT Recorder



Digital Audio Tape Recorder  
**PCM-M1**

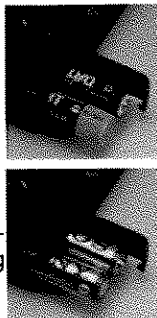
With its 16-bit linearity and a sampling frequency of 48kHz, DAT (Digital Audio Tape) has become indispensable in sound studios and broadcasting stations around the globe. Indeed, musicians and sound engineers consider DAT to be the king of the digital recording media, as its precision and versatility offer recording results with maximum fidelity to the original performance. The PCM-M1 Portable DAT Recorder has been designed to give you this professional-level sound quality in a model that fits in the palm of your hand.

### Lightweight Design and Durable Magnesium Die-Cast Body

The PCM-M1 utilizes an innovative mechanical deck specifically designed for portable use, allowing for a compact, lightweight design. The body of the PCM-M1 has been die-cast out of magnesium, one of the lightest and toughest metals available.

### Supplied Rechargeable Batteries for Long-Time Recording

Low power consumption technology has been incorporated into all stages of the PCM-M1, including the mechanical deck compartment. With two supplied NiH batteries (NH-D100), the PCM-M1 gives you continuous recording of approximately 3.5 hours (without recording monitor). You can also use this portable DAT player with standard AA dry batteries.



### High Quality Mic Amplifier Circuitry

For more accurate mic recording, Sony has incorporated the mic amplifier circuitry of the SMB-1 into the PCM-M1. This unique design improves the mic S/N ratio by about 3dB (compared to other Sony mics), greatly enhancing the sound quality of live recordings.

### New Features for Top-Quality Live Recording

The PCM-M1 is loaded with a full line-up of the most advanced DAT recording technology, ensuring that each recording you make is as good as a live performance.

For starters, the **Intelligent AGC (Auto Gain Control) System** automatically sets the recording level in accordance with the input level within the digital signal processing circuitry, preventing the sound distortion commonly caused by sudden surges in input level. This high-precision digital control reduces distortion noise to one-tenth that of conventional Sony analog processing.

In addition to the automatic selection provided by Intelligent AGC, you can also fine-tune recording levels by using one of two modes (Manual or Mic Limiter, which suppresses the peak level of mic input). The PCM-M1 also includes a self-adjusting mic attenuator (0/20dB).

Finally, the recording margin indication function displays the peak recording level in the main unit's level indicator. This feature makes it easy to set recording levels to maximize the advantages of DAT's wide dynamic range.

Thanks to Sony's revolutionary advancements in DAT technology, the compact PCM-M1 weighs only 290g (main unit), yet still gives you all of the cutting-edge recording and editing features found on standard DAT decks. In addition, new technology for low power consumption lets you enjoy 3.5 hours of continuous recording (when recording monitor is not in use) with the supplied rechargeable batteries. With its long battery life and host of cutting-edge features, the PCM-M1 is the ideal DAT recorder to bring to the recording studio or your live performance.

### Full-Range Start ID Function

The PCM-M1 offers three **Start ID recording modes**, helping you find the beginning of the track you want quickly and easily. In Auto Mode, a Start ID point is recorded automatically whenever a blank space continues for more than three seconds. Manual Mode lets you insert Start ID points at any desired location during recording. The exclusive Semi-Automatic Mode automatically records Start ID points when sound first begins on a recording. Since the Start ID points are recorded only at the beginning of each take, you can easily find the track you want, even when you are recording multiple takes. Of course, a Start ID ON/OFF mode has been included, for those times when you do not need Start ID points.

The PCM-M1 also incorporates a **Start ID Level Synchronization Function** to improve Start ID Auto Mode operation. Under normal Auto Mode operation, Start ID points are automatically recorded during blank

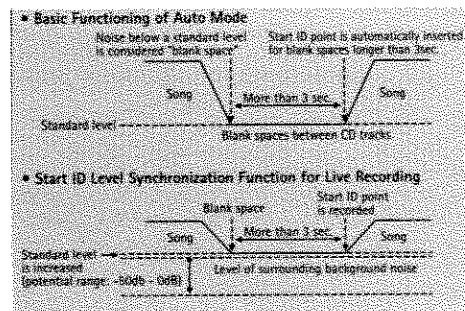
spaces on the tape. However, it is often difficult to maintain a sound-free environment during live recording. The Start ID Level Synchronization Function lets you set the "blank space" detection level according to one of 11 steps (range of -50dB to 0db). The system considers all noise below your selected level as blank space, providing accurate insertion of Start ID points, even in a noisy recording environment.

### Digital Recording/Editing with Digital IN/OUT

Use the digital input and output jacks of the PCM-M1 for top-quality digital recording or editing between your DAT recorder and an MD deck or CD player. By using the PCM-M1 on the recording side, you can create a back-up tape directly from a DAT audition tape or CD master tape. Since the back-up recording preserves the sound quality of the original recording, you do not have to worry about losing your precious sound data, even if your original is lost or destroyed.

### Other Features

- 44.1kHz Analog Input Recording Mode
- Dual LCD Display
- Electronic volume control for precise volume adjustment
- Low-power consumption mode to automatically lower battery power consumption when the system is in Pause mode for more than 3 minutes
- Date function & clock indication to automatically record date/time data (year, month, day, day of week, hour/minutes/second)



### Specifications

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| Recording/playback time (with 120-min. tape) | Standard: 120 min., Long-time mode: 240 min.   |
| Sampling frequency                           | 48kHz, 44.1kHz (Standard), 32kHz (Long-Time Mode)  |
| Bit-stream                                   | 16 bit linear (Standard), 12 bit non-linear (Long-Time Mode)   |
| Frequency response                           | 48kHz: 20 - 22,000Hz ± 1dB, 44.1kHz: 20 - 20,000Hz ± 1dB, 32kHz: 20 - 14,500Hz ± 1dB   |
| Wow & flutter                                | Below measurable limits  |
| S/N ratio                                    | More than 87dB   |
| Harmonic distortion                          | Below 0.008% (in Standard mode)  |
| Input jacks                                  | MIC/LINE IN (Stereo mini jack, plug-in-power compatible) x 1, headphone remote control input (4-pin comb type) x 1                                       |
| Digital in/out jack                          | 7-pin connector jack (remote control compatible)   |
| Maximum power output                         | 15mW + 15mW  |
| Power consumption                            | 900mW  |
| Power supply                                 | Nickel hydrogen rechargeable battery (NH-D100 supplied) x 2, AA dry battery (optional) x 2, external power supply (DC4.5V, AC100V) with supplied adaptor |
| Battery life for NiH battery                 | Continuous recording: Approx. 3 hr. 30 min. (without recording monitor)<br>Continuous playback: Approx. 2hr. 30 min.                                     |
| Recharging time for NiH battery              | Approx. 2 hr. 30 min. (complete recharge)  |
| Maximum external dimensions (W x H x D)      | 80 x 117.3 x 29.2mm (not including projecting parts)   |
| Weight                                       | Approx. 290g (main unit only)  |
| Supplied accessories                         | NiH rechargeable battery (NH-D100) x 2, rechargeable adaptor, AC adaptor, cleaning cassette, carrying case   |

\* Cannot be used with 180-min. tapes.

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