

SONY



PCM-M10 Linear PCM Recorder



A palm-sized, professional recorder with full-sized performance.

Meet the newest addition to Sony's family of portable audio recorders. The new PCM-M10 linear PCM recorder adopted many of its features and style from the highly acclaimed PCM-D50 model, including rugged construction, compact size and cool design.

The PCM-M10 model fits in your pocket and packs many savvy features: a five-second pre-record buffer, WAV and MP3 format record and play, USB port for easy upload/downloads, Digital Pitch Control and a microSD/Memory Stick Micro™ (M2™) slot. Providing 96 kHz/24bit recording, a 4GB built-in flash memory and user-friendly operation, the PCM-M10 model is the ideal choice for live musical, nature and field recordings.



4GB built-in memory to record 6 hrs*

Recording Mode	Built-in Memory (4GB)**		Optional Memory Stick Micro (M2) or microSD Recording Time**	
	4GB	4GB†	8GB†	16GB†
LPCM 96.00kHz 24bit	1 hr 50 min	1 hr 55 min	3 hrs 50 min	7 hrs 45 min
LPCM 96.00kHz 16bit	2 hrs 45 min	2 hrs 50 min	5 hrs 45 min	11 hrs 35 min
LPCM 48.00kHz 24bit	3 hrs 40 min	3 hrs 50 min	7 hrs 40 min	15 hrs 30 min
LPCM 48.00kHz 16bit	5 hrs 30 min	5 hrs 45 min	11 hrs 35 min	23 hrs 15 min
LPCM 44.10kHz 24bit	4 hrs 00 min	4 hrs 10 min	8 hrs 25 min	16 hrs 50 min
LPCM 44.10kHz 16bit	6 hrs 00 min	6 hrs 15 min	12 hrs 35 min	25 hrs 20 min
LPCM 22.05kHz 16bit	12 hrs 05 min	12 hrs 35 min	25 hrs 20 min	50 hrs 40 min
MP3 44.1kHz 320kbps	26 hrs 45 min	27 hrs 50 min	55 hrs 50 min	111 hrs 55 min
MP3 44.1kHz 128kbps	67 hrs 05 min	69 hrs 40 min	139 hrs 45 min	279 hrs 45 min
MP3 44.1kHz 64kbps	134 hrs 10 min	139 hrs 30 min	279 hrs 30 min	559 hrs 35 min

* 44.1kHz/16bit recording mode.

** Automatically divided when file size exceeds 2GB.

† Memory Stick Micro (M2) and microSD availability varies depending on the capacity.

Highlights

- User-friendly Operation
- 96kHz 24bit Recording
- 4GB Built-in Flash Memory
- 5 Second Pre-Record Buffer
- microSD/Memory Stick Micro™ (M2™) Slot
- WAV and MP3 Format Record/Play
- Digital Pitch Control
- Sound Forge® Audio Studio LE Software Included

Features and Benefits

Superb Recording Quality

The PCM-M10 is a 96 kHz/24bit linear PCM recorder that records in .WAV or .MP3 format and provides faithful recordings of even the most subtle nuances of live performances and events.

Expandable Memory

With a 4GB built-in flash memory, the PCM-M10 records up to six hours when recording in 44.1kHz 16bit CD quality mode. And the dual microSD/ Memory Stick Micro (M2) slot provides flexible recording options.



User Friendly Design

Built-in microphones, five second pre-record buffer and USB high-speed port allow for simple recording and uploading/downloading of native .WAV and .MP3 format recorded files to and from Windows® or Macintosh® computers.

Rugged Construction

The palm-sized recorder is built rugged to withstand the demands of professional applications ranging from houses of worship to journalism to live recordings including music, sound effects, field and nature and more.

Built-in Microphones/Speaker

Built-in omni directional microphones give a natural, stereo feeling to recordings, regardless of microphone placement, delivering optimum results even in lower frequencies. The built-in speaker allows for easy confirmation of recordings while on location.



Playback Functions

Provides MP3 playback, a special Digital Pitch Control that slows down playback without changing pitch and an A/B segment/repeat feature that allows you to mark and repeat a segment.

Track Marking

As you play a recording, the track marking function allows you to mark and locate sections of that recording for easy future reference.

Playback Key Control

This feature allows you to change the pitch of a song that has been recorded, which is especially helpful for musicians who want to sing the song in a higher or lower key.

Cross Memory

This crossover function allows you to continuously record from the 4GB built-in memory to the Memory Stick Micro (M2) or microSD and vice-versa, ensuring no interruption of recording if one medium reaches capacity.

Color Options

The PCM-M10 is available in black as well as red.



Specifications

Built-in Microphones

Electret condenser microphones: omni-directional
 Output sensitivity: -33.0dB/Pa 1kHz (Typical)
 Maximum input level: 123dB SPL (Typical)
 Noise level: less than 17dB SPL(A)

Recording Media

Built-in 4GB flash memory, Memory Stick Micro (M2) and microSD (optional)

Sampling Rates

22.05kHz, 44.1kHz, 48kHz and 96kHz

Quantization

16bit linear, 24bit linear

Recording Format

Linear PCM / MP3

Playback Format Linear PCM

Linear PCM / MP3 / WMA / AAC (.m4a)

Maximum Record Time using Internal 4GB Flash Memory

LPCM 96.00kHz 24bit:	1 hr 50 min
LPCM 96.00kHz 16bit:	2 hrs 45 min
LPCM 48.00kHz 24bit:	3 hrs 40 min
LPCM 48.00kHz 16bit:	5 hrs 30 min
LPCM 44.10kHz 24bit:	4 hrs 00 min
LPCM 44.10kHz 16bit:	6 hrs 00 min
LPCM 22.05kHz 16bit:	12 hrs 05 min
MP3 44.1kHz 320 kbps:	26 hrs 45 min
MP3 44.1kHz 128 kbps:	67 hrs 05 min
MP3 44.1kHz 64 kbps:	134 hrs 10 min

Frequency Characteristic (Line Input to Line Output)

96kHz: Frequency Response = 20Hz - 40,000Hz (0 to -2dB)
 48kHz: Frequency Response = 20Hz - 22,000Hz (0 to -2dB)
 44.1kHz: Frequency Response = 20Hz - 20,000Hz (0 to -2dB)
 22.05kHz: Frequency Response = 20Hz - 10,000Hz (0 to -3.5dB)

Signal-to-Noise Ratio (Line Input to Line Output)

87dB or above (1kHz IHF-A)

Total Harmonic Distortion (Line Input to Line Output)

0.03% or below (1kHz, 22kHz LPF)

Wow and Flutter

Below measure limit (less than +/-0.001%W.Peak)

Microphone Input (Stereo Mini Jack)

Input impedance: 3.9 kΩ
 Minimum input level: 0.9 mV
 Rated input level: 2.5 mV

Headphone/Line Out (Stereo Mini Jack)

Headphone mode
 - Load impedance: 16 Ω
 - Output level: 20 mW + 20 mW
 Line output mode
 - Load impedance: 22 kΩ
 - Rated output level: 1 Vrms

Line Input

Input impedance: 22 kΩ
 Minimum input level: 500 mV
 Rated input level: 2 V

USB Connection

mini-B jack, High-speed USB, Mass Storage Class

Memory Stick® Slot

Memory Stick Micro™ (M2™)/microSD memory card

Power Requirements

DC 3.0 V: When using the AC power adaptor (supplied)
 DC 3.0 V: LR6 (size AA) alkaline batteries (supplied) x 2
 DC 2.4 V: NH-AA nickel metal hydride rechargeable batteries (not supplied) x 2

Power Consumption

0.27W

Battery Life (Sony LR6 (SG) (size AA) alkaline batteries)

19/28 Hrs @ 96kHz 24bit LPCM recording with/without HP monitor
 19/28 Hrs @ 96kHz 16bit LPCM recording with/without HP monitor
 23/39 Hrs @ 48kHz 24bit LPCM recording with/without HP monitor
 24/39 Hrs @ 48kHz 16bit LPCM recording with/without HP monitor
 24/41 Hrs @ 44.1kHz 24bit LPCM recording with/without HP monitor
 24/46 Hrs @ 44.1kHz 16bit LPCM recording with/without HP monitor
 24/45 Hrs @ 22.05kHz 16bit LPCM recording with/without HP monitor
 26/40 Hrs @ 44.1kHz 320kbps MP3 recording with/without HP monitor
 26/40 Hrs @ 44.1kHz 128kbps MP3 recording with/without HP monitor
 26/43 Hrs @ 44.1kHz 64kbps MP3 recording with/without HP monitor

Dimensions (W x H x D)

2 1/2 in. x 4 1/2 in. x 7/8 in. not including projecting parts and controls

Weight

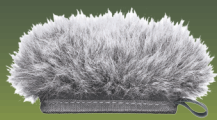
6 5/8 oz. including 2 LR6 (size AA) alkaline batteries

Supplied Accessories

Remote control, Sound Forge® Audio Studio LE (CD-ROM), AC power adaptor, Hand strap, USB cable, AA alkaline batteries (2)

Supplied and Optional Accessories

AD-PCM2 Windscreen



VCT-PCM1 Tripod



CKS-M10 Carrying Case Speaker



LC-PCMM10G Carrying Case



Remote Control (supplied)

