

Shown Actual Size

PCM-D100 portable recorder

sony.com/proaudio

a new high in resolution

The 4th generation PCM-D100 high-resolution audio portable recorder is part of Sony's new High-Resolution Audio initiative, a complete series of solutions designed to ensure that the latest generation of music enthusiasts can enjoy hi-res digital music.

As the successor to Sony's PCM-D50 model, the PCM-D100 portable recorder is a little high-res powerhouse with outsized features that belie its small size. Among its new features are larger, ultra high-quality, two-position (X-Y or Wide) stereo microphones, which make it ideal for a wide range of applications that require the highest sound quality possible; the ability to support the latest high-resolution codecs and formats, including DSD and 192kHz/24bit PCM; simultaneous dual recording capability in MP3 and PCM mode and editing* with Sony's Sound Forge® Audio Studio LE software, which is included with the PCM-D100; and 32 GB of built-in flash memory.

The recorder is fitted with a combination SD Card/Memory Stick slot for expandable storage. Its lightweight metal aluminum body is built to withstand the demands of professional applications and offers long battery life.

Whether you're gathering news or recording a concert or theatrical event, the PCM-D100 delivers a new high in resolution to satisfy the discriminating audio enthusiast, as well as the demanding audio professional.



32GB of built-in memory

| Record Mode | Built-in Memory** | | Memory Card** | |
|---------------------|-------------------|---------------|---------------|---------------|
| | 32GB | 16GB | 32GB | 64GB |
| DSD 2.8MHz/1bit | 10 hrs 50 min | 6 hrs 5 min | 12 hrs 15 min | 24 hrs 30 min |
| LPCM 192kHz/24bit | 6 hrs 35 min | 3 hrs 40 min | 7 hrs 25 min | 14 hrs 50 min |
| LPCM 176.4kHz/24bit | 7 hrs 10 min | 4 hrs 0 min | 8 hrs 5 min | 16 hrs 15 min |
| LPCM 96kHz/24bit | 13 hrs 15 min | 7 hrs 25 min | 14 hrs 50 min | 29 hrs 45 min |
| LPCM 96kHz/16bit | 19 hrs 50 min | 11 hrs 10 min | 22 hrs 20 min | 44 hrs 40 min |
| LPCM 88.2kHz/24bit | 14 hrs 25 min | 8 hrs 5 min | 16 hrs 10 min | 32 hrs 25 min |
| LPCM 88.2kHz/16bit | 21 hrs 35 min | 12 hrs 10 min | 24 hrs 20 min | 48 hrs 40 min |
| LPCM 48kHz/24bit | 26 hrs 30 min | 14 hrs 50 min | 29 hrs 45 min | 59 hrs 35 min |
| LPCM 48kHz/16bit | 39 hrs 45 min | 22 hrs 20 min | 44 hrs 40 min | 89 hrs 25 min |
| LPCM 44.1kHz/24bit | 28 hrs 50 min | 16 hrs 10 min | 32 hrs 25 min | 64 hrs 55 min |
| LPCM 44.1kHz/16bit | 43 hrs 15 min | 24 hrs 20 min | 48 hrs 40 min | 97 hrs 20 min |
| MP3 320 kbps | 190 hrs | 107 hrs | 214 hrs | 429 hrs |
| MP3 128 kbps | 477 hrs | 268 hrs | 536 hrs | 1,073 hrs |

^{*}The Sony Sound Forge Audio Studio LE software does not allow editing in the DSD format.

^{**}Approximate file size; file automatically divided when file size exceeds 2GB.

product highlights

- DSD, PCM, and MP3 recording
- Built-in high-quality Electret Condenser Microphones, adjustable from 90°-120°
- Built-in 32GB Internal Flash Memory and Optional SD Card slot
- 5-Second Pre-record Buffer*

- Divide/Combine during playback*
- Track Mark Support**
- Dual Signal Path Mic Pre and ADC***
- Fade-In, Fade-Out for LPCM self recordings
- Super Bit Mapping for LPCM 16 bit self recordings

features and benefits

Crystal-Clear Sound Prepare to be knocked out by the frequency response and overall sound quality made possible by this little recorder's high-resolution audio. The PCM-D100's strengths all start with this superior sound capability.

Adjustable Mics When you're close to the sound source, adjust the PCM-D100's larger stereo microphones to 90° for a natural stereo image with depth. For orchestras and other recordings in large venues, set the two mics at 120° for realistic rich sounds with a feeling of broad openness.





Anti-Distortion Design This portable recorder's "digital limiter" prevents sounds distortion, even in cases of excessive input, by automatically adjusting to the optimal level within the buffer range of -12dB.



Minimal Internal Noise Internal noise is almost eliminated during AD conversions because of the digital limiter mechanism. Noise is minimized for soft sounds while maintaining the same amplitude as the source sound—sometimes achieving a S/N ratio up to 100dB.

Built-in Editing Capability Edit on your computer or on the spot. Download the audio file to your computer and edit with the Sound Forge Audio Studio LE software that comes with your recorder. Or use the Divide and Combine functions to edit as you record.

User-Friendly Operation Set up menu access the way you need it, assigning frequently used features to the F1/F2 buttons. Home/Option buttons also simplify navigation.

Super Bit Mapping Sony's unique technology provides 20 bit levels of audio performance when recording 16 bits.

Dual Recording Record in both PCM and MP3 simultaneously. Then email the MP3 while retaining the larger PCM file on your computer.

Wireless IR Remote Control With two sensors on the IR receiver unit receiving signals from a wide range, it's simple to use your remote to control recording from a distance. The easy-to-see LED lets you know when recording has stopped—especially useful in a dark room or concert hall.

Cross-Memory Recording If the internal memory or remaining memory in the memory card runs out during recording, you're covered—the PCM-D100 can automatically switch to the other memory device to continue recording seamlessly.

Playback Choose from a variety of playback modes, including DSD, FLAC, LPCM, MP3, WMA, and AAC-LC. Utilize playback features such as Up Sampling (PCM), Effects (PCM + MP3), Digital Pitch Control (PCM + MP3), and Key Control (PCM + MP3).

^{*}For PCM + MP3 + DSD self recordings

^{**}For PCM + MP3 self recordings

^{***}Optional modes for PCM + MP3 self recordings

Specifications

| General | | | |
|--|------------|---|--|
| Built-in Microphone | | Electret condenser microphone in X-Y configuration | |
| Microphone Size | | 15 mm | |
| Maximum Input Level | | 128dB SPL | |
| Recording Format | DSD (dsf) | 2.8224MHz | |
| necessarily remna. | WAV MP3 | 192/176.4kHz 24bit, 96/88.2/48/44.1kHz 24/16bit 320/128 kbps | |
| Playback Format | 1411 0 | DSD (dsf, dff), WAV, FLAC, MP3, WMA, AAC | |
| Built-in Memory | | 32GB | |
| Memory Card Support | | SD, SD HC, SD XC, Memory Stick Pro Duo, Memory Stick Pro-HG Duo | |
| Frequency Range (input from Line IN) | | DSD 2.8MHz/1bit: 20-50,000Hz (0 to -6dB) LPCM 192kHz/24bit: 20-45,000Hz (0 to -2dB) LPCM 176.4kHz/24bit: 20-45,000Hz (0 to -2dB) LPCM 96kHz/24,16bit: 20-40,000Hz (0 to -2dB) LPCM 88.2kHz/24, 16bit: 20-38,000Hz (0 to -2dB) LPCM 48kHz/24, 16bit: 20-22,000Hz (0 to -2dB) LPCM 44.1kHz/24, 16bit: 20-22,000Hz (0 to -2dB) LPCM 44.1kHz/24, 16bit: 20-20,000Hz (0 to -2dB) MP3 320kbps: 20-20,000Hz (0 to -2dB) MP3 128kbps: 20-16,000Hz (0 to -2dB) | |
| Signal to Noise Ratio (input from Line IN) | | DSD 98dB or more (1kHz IHF-A) LPCM 100dB or more (1kHz IHF-A) when set to 24-bit, S/N100dB on | |
| Maximum Sound Pressure | | 128dBSPL | |
| Level (SPL) | | 10dRSDI (A)or below | |
| Inherent Noise Level | | 19dBSPL(A)or below DSD 0.008% or below (1kHz, 22kHz LPF) | |
| Total Harmonic Distortion (input from Line IN) | | LPCM 0.006% or below (1kHz, 22kHz LPF) | |
| Inputs and Outputs | | LI GIVI 0.000% OF DEIOW (TRITZ, ZZRITZ ELT) | |
| Microphone Jack (stereo | | Input impedance: 22k ohms; | |
| mini, supports external mic plug-in power) | | Rated input level: 2.5 mV; minimum input level: 0.7 mV | |
| Headphone Jack (stereo mini) | | Rated output level: 400 mV; Maximum output level: 25+25 mW or more; Load impedance: 16 ohms | |
| Line-in/Optical IN Jack | | Line input: input impedance: 22k ohms; | |
| | | Rated input level: 2.0V; minimum input level: 450 mV Optical digital input: input level -27dBm to -14dBm; Absorption wavelength: 660nm (Typ) | |
| Line-out/Optical OUT Jack | | Line output: output impedance: 220 ohms; Rated output level: 1.7V; load impedance: 22k ohms Optical digital output: output level -21dBm to -15dBm Emission wavelength: 640nm to 680nm | |
| DC in Jack | | 6V (AC 100-240V, 50/60Hz) | |
| USB Connection | | USB 2.0 (micro USB) | |
| Speaker | | | |
| Speaker Power Output | | 200 mW | |
| Speaker Size | | .63 in (16 mm) | |
| Others | | | |
| Power Requirements | | 4 x AA size alkaline batteries (supplied) or 4 x AA NiMH rechargable batteries (not supplied) | |
| Power Consumption | | 3.7w | |
| Dimensions (w/h/d) | | Approx 2.84 x 6.17 x 1.29 in (72.0 x 156.8 x 32.7 mm) | |
| Weight (including batteries) | | Approx 14 oz (395g) (including batteries) | |
| Battery Life for Recording | A | (Sony Alkarine Battery LR6) | |
| DSD 2.8MHz/1bit | Approx | (with monitor) 8hrs (without monitor) 12hrs | |
| LPCM 192kHz/24bit | Approx | (with monitor) 10hrs (without monitor) 18hrs | |
| LPCM 96kHz/24bit | Approx | (with monitor) 11 hrs (without monitor) 22hrs | |
| LPCM 44.1kHz/16 bit | Approx | (with monitor) 12hrs (without monitor) 25hrs | |
| MP3 320kbps Max Recording Time | Approx | (with monitor) 12hrs (without monitor) 25hrs (Built-in Memory 32GB) | |
| DSD 2.8MHz/1bit | | 10hrs 50min | |
| LPCM 192kHz/24bit | | 6hrs 35min | |
| LPCM 176kHz/24bit | | 7hrs 10min | |
| LPCM 96kHz/24bit, 16bit | | 13hrs 15min/19hrs 50min | |
| LPCM 96kHz/24bit, 16bit LPCM 88.2kHz/24bit, 16bit | | 14hrs 25min/19hrs 35min | |
| LPCM 48kHz/24bit, 16bit | | 26hrs 30min/39hrs 45min | |
| LPCM 44.1kHz/24bit, 16bit | | 28hrs 50min/43hrs 15min | |
| MP3 320kbps | | 190hrs | |
| MP3 128kbps | | 477hrs | |

Features

| Recording Features | | |
|--|--|--|
| S/N 100dB | Yes (PCM & MP3) | |
| Digital Limiter | Yes (PCM & MP3) | |
| Peak Hold | Yes | |
| Low Cut Filter | Yes | |
| Dual Recording | Yes (PCM & MP3) (Records PCM & MP3 at the same time) | |
| Cross Memory Recording | Yes | |
| Pre Recording | Yes | |
| Playback Features | | |
| Up Sampling Playback | Yes (PCM only) | |
| Digital Pitch Control (Speed Control) | Yes (PCM & MP3) | |
| Key Control | Yes (PCM & MP3) | |
| Sound Effect | Yes (PCM & MP3) | |
| Edit Features | | |
| Ean realules | | |
| Divide | Yes | |
| Divide | (Self recordings only) | |
| | | |
| Divide | (Self recordings only) Yes (DSD & PCM) | |
| Divide Combine | (Self recordings only) Yes (DSD & PCM) (Self recordings only) | |
| Divide Combine | (Self recordings only) Yes (DSD & PCM) (Self recordings only) Yes (PCM only) (Self recordings only) Yes (PCM & MP3) | |
| Divide Combine Fade-in / Fade-out | (Self recordings only) Yes (DSD & PCM) (Self recordings only) Yes (PCM only) (Self recordings only) | |
| Divide Combine Fade-in / Fade-out Track Mark | (Self recordings only) Yes (DSD & PCM) (Self recordings only) Yes (PCM only) (Self recordings only) Yes (PCM & MP3) (Self recordings only) | |
| Divide Combine Fade-in / Fade-out Track Mark Move File | (Self recordings only) Yes (DSD & PCM) (Self recordings only) Yes (PCM only) (Self recordings only) Yes (PCM & MP3) (Self recordings only) Yes | |
| Divide Combine Fade-in / Fade-out Track Mark Move File File Copy | (Self recordings only) Yes (DSD & PCM) (Self recordings only) Yes (PCM only) (Self recordings only) Yes (PCM & MP3) (Self recordings only) Yes Yes | |
| Divide Combine Fade-in / Fade-out Track Mark Move File File Copy File Protect | (Self recordings only) Yes (DSD & PCM) (Self recordings only) Yes (PCM only) (Self recordings only) Yes (PCM & MP3) (Self recordings only) Yes Yes | |
| Divide Combine Fade-in / Fade-out Track Mark Move File File Copy File Protect Other Features | (Self recordings only) Yes (DSD & PCM) (Self recordings only) Yes (PCM only) (Self recordings only) Yes (PCM & MP3) (Self recordings only) Yes Yes Yes | |
| Divide Combine Fade-in / Fade-out Track Mark Move File File Copy File Protect Other Features LCD Backlight | (Self recordings only) Yes (DSD & PCM) (Self recordings only) Yes (PCM only) (Self recordings only) Yes (PCM & MP3) (Self recordings only) Yes Yes Yes | |

Supplied Accessories

Sound Forge Audio Editing Software (CD)



Wireless IR Remote Commander



Carrying Case



Microphone Furry Windscreen



4 x AA Batteries

USB Cable

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