SONY

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.

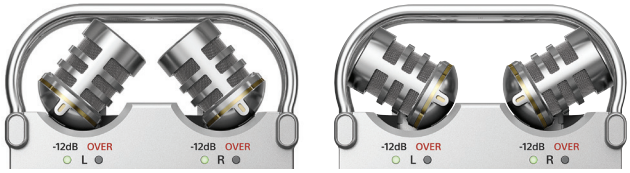
product highlights

- 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

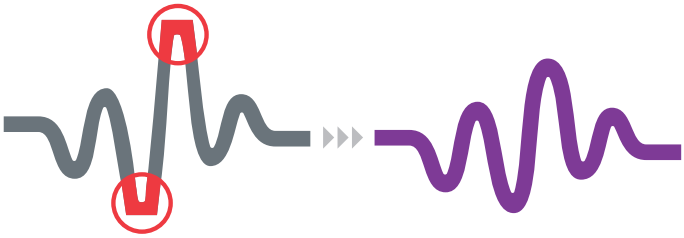
features and benefits

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
	WAV	192/176.4kHz 24bit, 96/88.2/48/44.1kHz 24/16bit
	MP3	320/128 kbps
Playback Format		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: 20-20,000Hz (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 Level (SPL)		128dBSPL
Inherent Noise Level		19dBSPL(A)or below
Total Harmonic Distortion (input from Line IN)		DSD 0.008% or below (1kHz, 22kHz LPF) LPCM 0.006% or below (1kHz, 22kHz LPF)
Inputs and Outputs		
Microphone Jack (stereo mini, supports external mic plug-in power)		Input impedance: 22k ohms; 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		**(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) 11hrs (without monitor) 22hrs
LPCM 44.1kHz/16 bit	Approx	(with monitor) 12hrs (without monitor) 25hrs
MP3 320kbps	Approx	(with monitor) 12hrs (without monitor) 25hrs
Max Recording Time		**(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 88.2kHz/24bit, 16bit		14hrs 25min/21hrs 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	
Divide	Yes (Self recordings only)
Combine	Yes (DSD & PCM) (Self recordings only)
Fade-in / Fade-out	Yes (PCM only) (Self recordings only)
Track Mark	Yes (PCM & MP3) (Self recordings only)
Move File	Yes
File Copy	Yes
File Protect	Yes
Other Features	
LCD Backlight	Yes
Rec Volume Backlight	Yes
USB Connection Charging	No

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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