

PCM-D100

Portable High Resolution Audio Recorder



Overview

High performance, high resolution portable audio recording

Sony's PCM-D100 audio recorder is designed to deliver the highest sound quality in professional audio applications including live music events, theatrical performances, and news gathering. The recorder supports the latest high-resolution codecs and formats, including 192kHz/24bit PCM and DSD.

Compatibility with the DSD format enables the recording of source sounds using digital signals, but in a format that closely resembles analogue waveforms. Compatible with recording and playback in 192 kHz/24-bit linear PCM, the unit can reproduce ultra-high range, delicate music components with excellent audio quality from low to high range. Its broad playback frequency band easily exceeds the audible band of 20 Hz to 25 kHz.

A highly sensitive directional microphone uses a new 15 mm unidirectional mic unit. The mic's sound collection range adjusts to suit various sounds, from performances with a small number of people to concert halls with a large group of performers. The highly sensitive, broadband recording functionality expresses frequency properties up to 40 kHz, to maximize the advantages of DSD recording.

The PCM-D100 recorder has 32 GB of built-in flash memory and a combination SD Card/Memory Stick slot for expandable storage. The recorder's lightweight metal aluminium body is built to withstand the demands of professional applications and offers long battery life via four AA batteries (up to approximately 11 hours in DSD (2.8 MHz/1-bit)).

The PCM-D100 recorder is part of Sony's newly announced High-Resolution Audio initiative, a complete series of products designed to help music lovers conveniently access and enjoy the digital music they love in the best playback quality.

Features

High Resolution Recording

Supported recording formats include DSD2.8, LPCM up to 192kHz/24 bit and MP3

Built-in Electret Condenser Microphones

The PCM-D100's electret condenser microphones have exceptional high sound quality. The X/Y or wide position stereo microphones are uni-directional with a flat and wide frequency response and natural sound characteristics.

Flexible Playback Features

The PCM-D100 includes both digital pitch control and key control for both LPCM and MP3 recordings. Digital pitch control maintains pitch while slowing down or speeding up playback speed. Key control allows changing the pitch while maintaining playback speed.

Simple uploading to computers

The recorder includes a USB 2.0 high-speed port for simple uploading/downloading to/from Windows® PC or Macintosh® computers.

Versatile Recording Functions

The PCM-D100 offers comprehensive signal processing features for location recording including a limiter and low cut filter. The PCM-D100 also includes a 5 second pre-record buffer and cross-memory recording function.

Specifications

General Specifications	
Audio Formats Supported	Record: DSD, WAV and MP3; Playback: DSD, WAV, FLAC, MP3, WMA (Non DRM), AAC-LC (Non-DRM)
Built-in Mic	Electret condenser microphones. Max input level: 128 dB SPL. Frequency response 20 Hz to 20 kHz
Mic Input	(Stereo Mini Jack) Input impedance: 22 k ohm, Rated input level: 2.5 mV; Minimum input level: 0.7 mV
Line Input (Analogue)	(Stereo Mini Jack) Input impedance: 22k ohm; Minimum input level: 450mV; Rated input level: 2.0V
Line Input (Optical)	Optical Digital Input: Input level: -27 dBm to -14 dBm; Emission wavelength: 660 nm
Line Output (Analogue)	Output impedance: 220 ohms; Output level: 1.7V; Load impedance 22k ohms
Line Output (Optical)	Output level: -21dBm to -15 dBm
Headphone Output	Stereo Mini Jack; Maximum output: 25 mW + 25 mW or more; Load impedance: 16 ohms
Frequency Response	20Hz - 50kHz (Line In) @ DSD2.8 ; 20Hz - 45kHz (Line In) @ LPCM 192kHz/24bit
Sampling Frequency	DSD 2.8MHz; LPCM 192kHz/176.4kHz/96kHz/88.2kHz/48kHz/44.1kHz
Quantization	16-bit LPCM, 24-bit PCM and 1-bit DSD
S/N Ratio	DSD 98dB or greater; LPCM 24 bit 96dB or greater
Total Harmonic Distortion (Line Input to Line Output)	DSD: 0.008% or below (1kHz, 22kHz LPF) LPCM: 0.006% or below (1kHz, 22kHz LPF)
Wow and Flutter	Below measurable limit (less than +/-0.001%W.Peak)
USB	High-speed USB 2, mass storage class
Power Consumption	0.75w
Power Requirements	Four AA size Alkaline batteries (supplied). Four AA NiMH Rechargeable batteries (optional)
DC Input Jack	6V

General Specifications

Battery Life	25 hrs @44.1kHz/16 bit; 18 hrs @192kHz/24bit or 12 hrs @ DSD2.8
Memory Stick Slot	Accepts SD, SD-HC,SD-XC, Memory Stick Pro Duo and Memory Stick Pro-HG
Dimensions	2 7/8" x 6 1/8" x 1 1/4" (w x h x d) not including projecting parts and controls
Weight	13.9 oz (including batteries)

Inputs and Outputs Specifications

DC Input Jack	6V
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Supplied Accessories

Sound Forge Audio Studio LE software
USB cable
Soft case
Windscreen
Wireless remote

Optional Accessories

PCM-D100 is compatible with SD (2GB), SD-HC (4GB-32GB), SD-XC (48GB, 64GB, 128GB), Memory Stick Pro-HG, Memory Stick Pro Duo
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Gallery





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