



PCMD100

Portable High Resolution Audio Recorder



The PCM-D100 is a high resolution recorder with two-position (X-Y or Wide) stereo microphones, 32 GB of internal flash memory and a SD-XC Card slot. Recording formats include linear PCM (at 192, 176.4, 96, 88.2, 48 and 44.1kHz); DSD (2.8224 MHz) and MP3 (320 and 128 kbps). Additional playback support is provided for FLAC, WMA and AAC files. The D100 is constructed of lightweight metal (aluminum) and it's built rugged to withstand the demands of pro applications, plus it offers long battery life using conventional AA alkaline batteries. The recorder includes a USB high-speed port for simple uploading/downloading to/from Windows® PC or Macintosh® computers. Other PCM-D100 features include digital pitch control, dual path digital limiter, low-cut filter, Super Bit Mapping® and A-B repeat capability.

Highlights:

- Offers solid-state storage -free of drive mechanisms
- Built-in high quality electret condenser stereo microphones

Features

Benefits:

High Resolution Recording	Supported recording formats include DSD2.8, LPCM up to 192kHz/24 bit and MP3
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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 Computer	Conforms to the USB 2.0 Mass Storage Class Device standard.
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.
General Specifications	Detail:
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 (Analog)	(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 (Analog)	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,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
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		Detail:
DC Input Jack		6V



