



SONY

THE ULTIMATE AUDIO RECORDER

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# PCM-D1 Portable Recorder

- Linear PCM Recorder
  - Ideal for recording superior high-quality stereo recordings
    - One-piece portable 96 kHz - 24 bit recorder
  - Solid-State Storage
    - 4 GB Internal Flash Memory
    - Removable Memory Stick Pro High-Speed
  - High Quality Built-in X-Y Configuration Condenser Microphones
    - Nearly 30 kHz frequency response
    - Low self noise and high sensitivity
  - USB 2.0 Mass Storage Device
    - .WAV file format recordings
    - Connect with PC and Mac



# PCM-D1 Portable Recorder

- Built-in condenser microphones
- Analog level meters
- Bi-color LED peak overload indicators
- LCD display
- PB level control
- Individual (L-R) record level controls



# PCM-D1 Portable Recorder



- External Mic Input (No Plug-in Power)
- Headphone Output
- Mic/Line Input Switching
- Memory Stick Slot
- Slit for supplied wrist strap

# PCM-D1 Portable Recorder

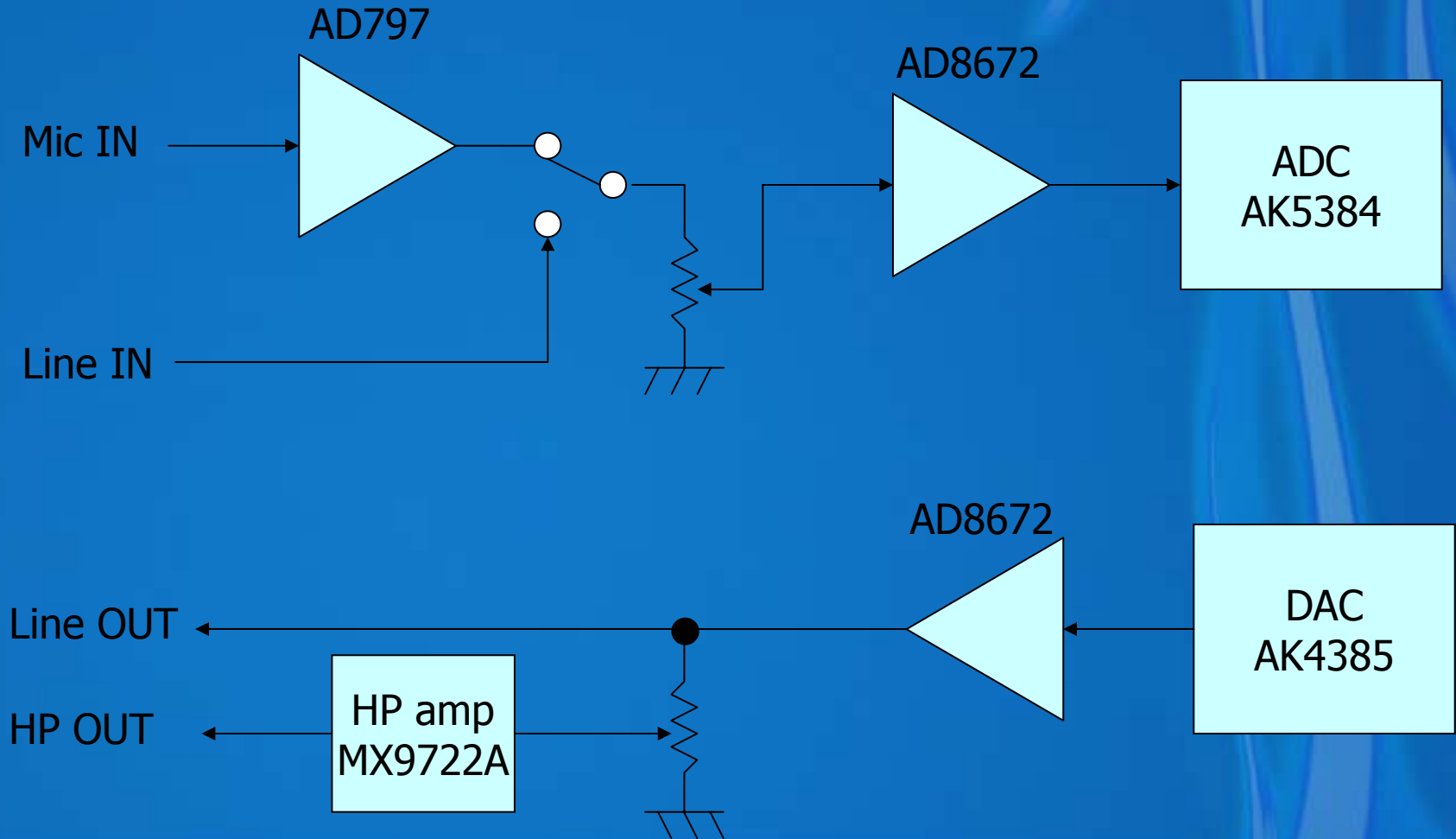


- Line out / optical digital out jack
- Line in jack
- 20 dB Mic Attenuator
- USB 2.0
- DC In 6 V jack
- Hold switch

# PCM-D1 Portable Recorder

- Supplied accessories include:
  - Windscreen
  - AC Power Adaptor
  - USB Cable
  - Carrying Case
  - Battery Charger
  - Four AA Nickel Metal Hydride Rechargeable Batteries
  - Operating Instructions

# PCM-D1 Analog Front End Block Diagram



# PCM-D1 Characteristic of Microphone

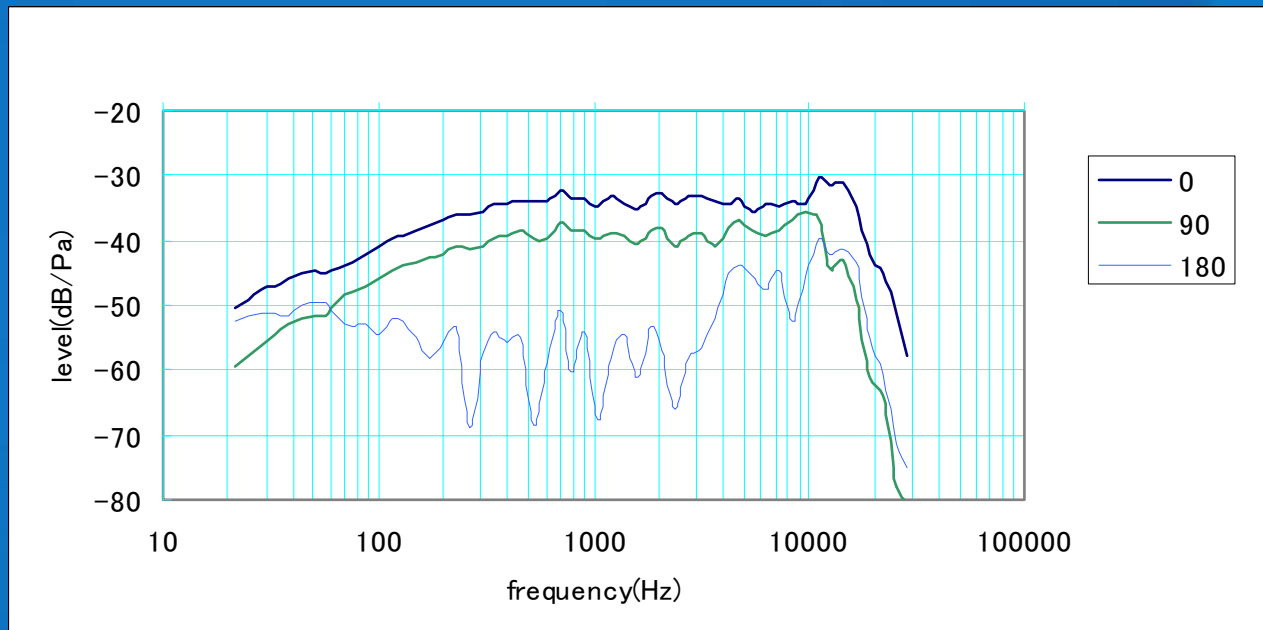
Electret Condenser Microphone

Output Sensitivity -32.0dB/Pa 1kHz

Maximum Input 130dB SPL

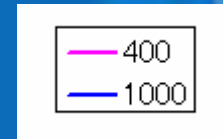
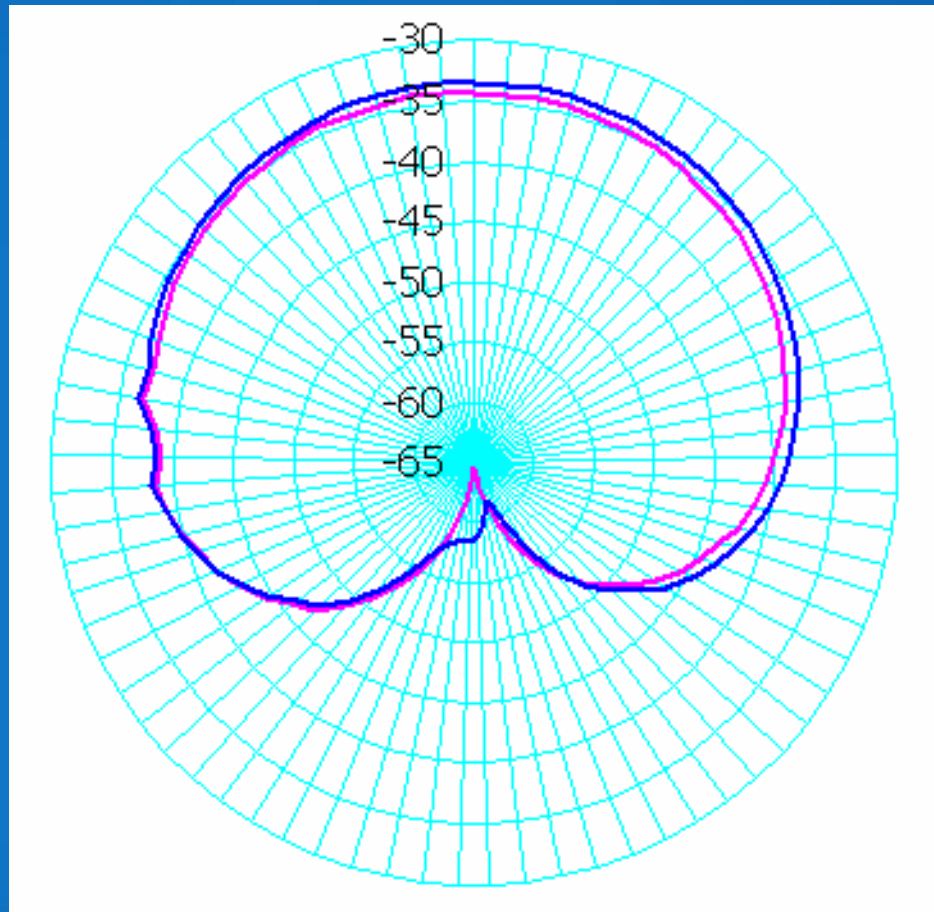
Noise Level 20.0dB SPL(A)

Paired Microphones within 1dB differences between Lch and Rch sensitivity





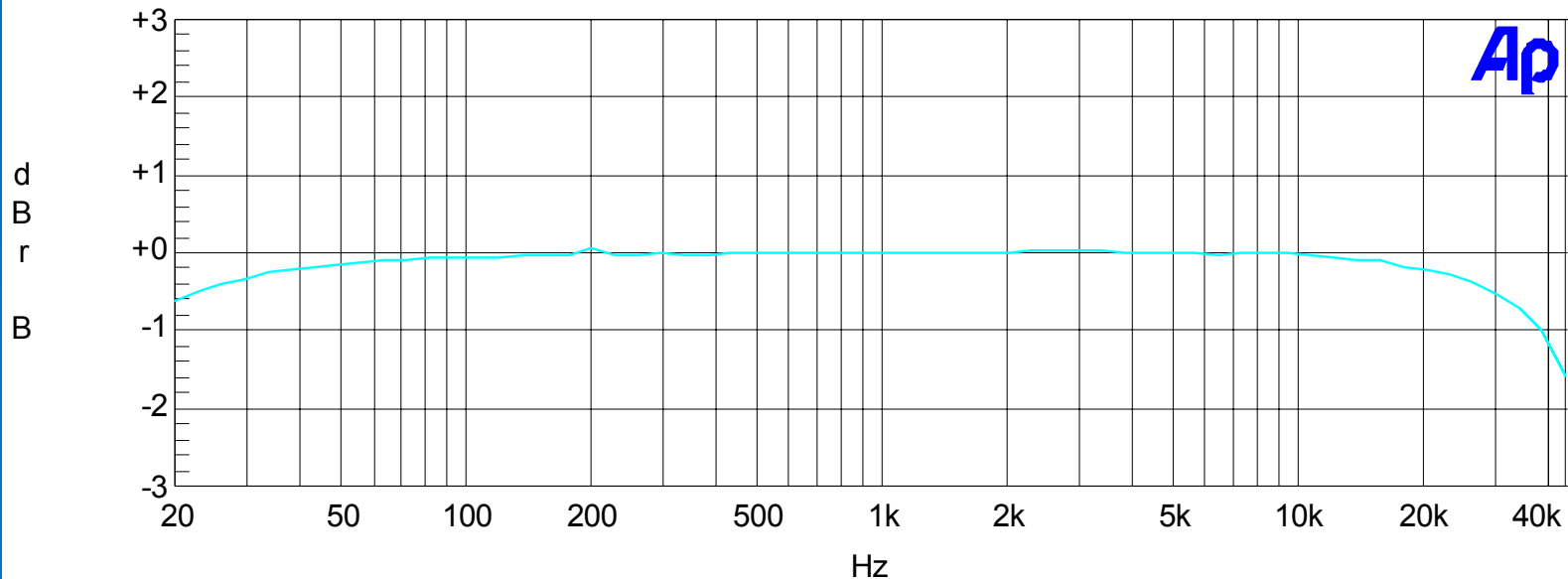
# PCM-D1 Microphone Polar Pattern



# PCM-D1 Frequency Characteristic Line in to Line out

Audio Precision

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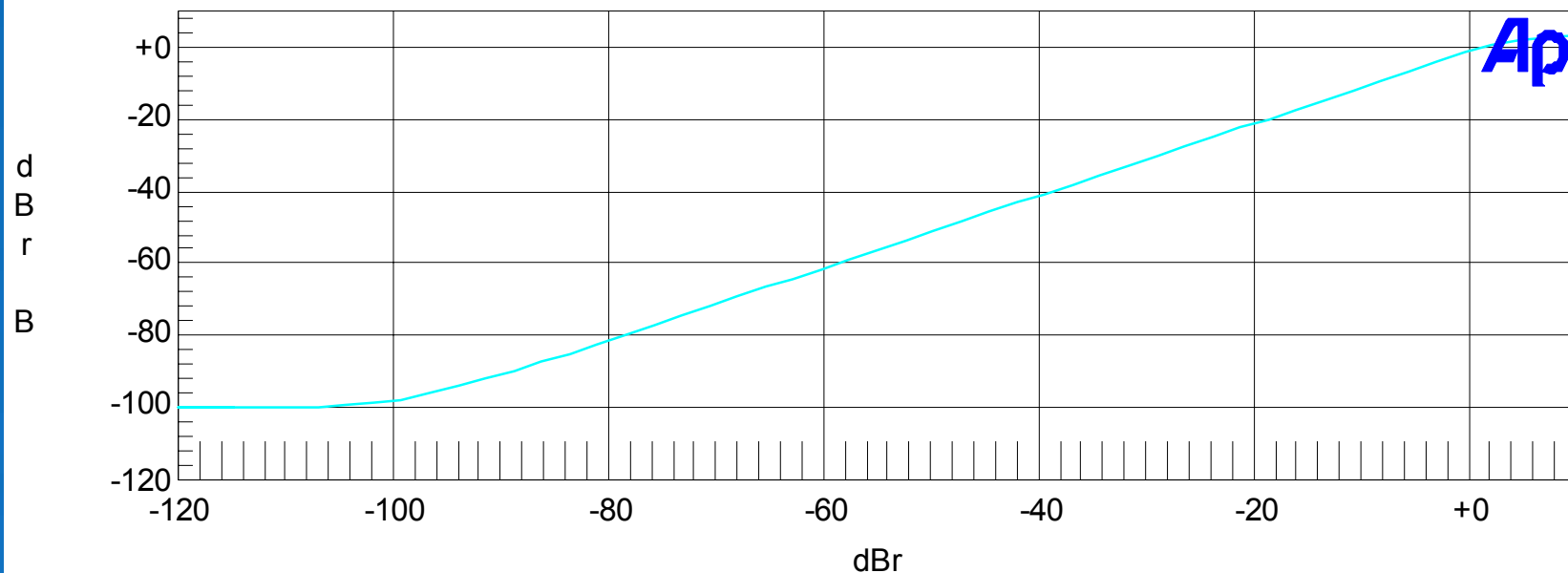


Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
1	1	Cyan	Solid	1	Anlr.Ampl	Left	

# PCM-D1 Linearity of Line in to Line out

Audio Precision

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Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
1	1	Cyan	Solid	1	Anlr.Ampl	Left	

# PCM-D1 Portable Recorder

- Limiter Function
  - Includes audio buffer simultaneously recording audio at -20dB
  - When limiter engaged, gain compensation is applied to -20 dB buffer signal to equal original recording level
  - Results in limiting without the sound of conventional limiter
  - Excessive gain (higher than 20dB) over input level settings – may cause sound to distort
- SBM for 16 bit recordings
  - Internal software generates 3 noise shaping algorithms simultaneously
  - Produces very high-quality 16-bit recording
- 200 Hz High Pass Filter
  - Great for removing low frequency rumble from recordings
- Clock
  - The Date/Time setting is used for .WAV file name

# PCM-D1 Portable Recorder

## Approximate Maximum Recording Time

Sample Rate and Quantization	256 MB MS Pro (HS)	512 MB MS Pro (HS)	1 GB MS Pro (HS)	2 GB MS Pro (HS)	4 GB MS Pro (HS)	4GB Int. Flash Mem
22.05 kHz, 16-bit	45 min	1 hr 30 min	3 hr 5 min	6 hr 25 min	12 hr 45 min	13 hr 10 min
44.1 kHz, 16-bit	20 min	45 min	1 hr 30 min	3 hr 10 min	6 hr 20 min	6 hr 35 min
44.1 kHz, 24-bit	15 min	30 min	1 hr	2 hr 5 min	4 hr 15 min	4 hr 15 min
48 kHz, 16-bit	20 min	40 min	1 hr 25 min	2 hr 55 min	5 hr 50 min	5 hr 50 min
48 kHz, 24-bit	10 min	25 min	55 min	1 hr 55 min	3 hr 50 min	3 hr 50 min
96 kHz, 16-bit	10 min	20 min	40 min	1 hr 25 min	2 hr 50 min	2 hr 55 min
96kHz, 24-bit	5 min	10 min	25 min	55 min	1 hr 55 min	1 hr 55 min

**MEMORY STICK MUST BE:**

**MEMORY STICK PRO HIGH SPEED**

**OR**

**MEMORY STICK PRO Duo HIGH SPEED WITH  
Duo ADAPTER**

# PCM-D1 Portable Recorder

- The .WAV File Standard has a 2 GB Size Limit
  - If you recorded at 96kHz-24bit and make a 1 hr 55 min. recording, the result will be two files, each under the 2GB limit
  - First file will be about one hour in duration
  - Second file will be the remainder of the recording
- Divide Function
  - Allows dividing a single recording into 2 or more individual files
  - Destructive process on the recorder
    - Back-up (via USB) first if original recording is needed
    - During playback, cue-up to an appropriate location, press divide
    - During recording 'on-the-fly', press divide

# PCM-D1 Portable Recorder

- Approximate Battery Life

Battery Type	96kHz 24-bit	44.1kHz 16-bit
Nickel Metal Hydride	4.0 hrs	5.0hrs
Alkaline	2.0 hrs	2.0 hrs

# PCM-D1 Portable Recorder

## THE ULTIMATE AUDIO RECORDER

Tentative List Price: \$2000.00

Available: December



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