TASCAM
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HD-P2
Portable Stereo Recorder

Answering the call of remote recording engineers, the HD-P2 is the professional solution for the challenging requirements of live and on-location applications. It writes uncompressed Broadcast Wave audio files at up to 192-kHz/24-bit resolution for audiophile quality to Compact Flash or Micro Drive media. Files are instantly available through the built-in high-speed FireWire computer connection and can be loaded into DAW projects with sample accuracy.

Unlike consumer MP3 sketchpads, the professional HD-P2 incorporates high-end features like SMPTE timecode and clock inputs for synchronization to video recorders or other external devices while in record or playback. Its XLR microphone inputs include phantom power and a limiter to curb unpredictable distortion during live events. The user interface has been designed for fast and intuitive use under stressful one-take-only situations, and with its large, angled LCD, the HD-P2 is perfect for any application from over-the-shoulder location recording to concert recording and commercial use.

	Recording time depending on memory size and recording resolution (Hours:Minutes)				
CF Card	44.1kHz 16-bit	48kHz 16-bit	48kHz 24-bit	96kHz 24-bit	192kHz 24-bit
512MB	00:50	00:46	00:31	00:15	00:07
1GB	01:36	01:30	01:00	00:30	00:15
2GB	03:18	03:06	02:00	01:00	00:30
4GB	06:42	06:12	04:06	02:00	01:00
8GB	13:30	12:24	08:12	04:06	02:00

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Features

Recording
- Ideal for electronic news gathering and other high-quality recording tasks in the field
- Recording media: CompactFlash, Microdrive
- 16- or 24-bit recording resolution at sample rates from 44.1 kHz through 192 kHz
- Uncompressed, time-stamped Broadcast Wave file format is easily imported into DAW software and spotted into projects with sample accuracy
- Pre-Record Cache permanently stores the last 5 or 10 seconds (selectable) when in Record Ready to even capture audio events happening before actually starting the recording (can be disabled)
- Retake function allows user to re-do last recording with a single button press
- Audio files continually re-saved to safeguard against data loss
- Comprehensive system and transport control from the front panel or a PS/2 keyboard

Inputs and Outputs
- Balanced XLR mic inputs with phantom power, 20-dB PAD, and analogue peak limiter
- Low-cut filter on each analogue input
- Unbalanced stereo line input and output (RCA)
- SPDIF digital input and output (coaxial)
- Headphone output (6.3-mm stereo jack)
- Built-in mono microphone and speaker
- FireWire port for connection with computer
- Analogue level controls allow easy operation without the need to look at the unit

Synchronization
- SMPTE/LTC timecode input on locking XLR balanced jack
- Timestamps Broadcast Wave recordings from SMPTE input
- Chase locks to incoming SMPTE timecode
- Video clock input resolves to house clock
- Tri-level sync support for HDTV applications
- Includes Frame Lock, Lock and Release and flexible Freewheel settings for unpredictable timecode sources
- Pull-up and Pull-down sample rates included for video format compatibility

Convenience
- Familiar tape machine-style layout and function
- Easily enter/edit file names via Computer Keyboard
- Large, angled, uncluttered LC display for table-top or shoulder strap use
- Shortcut keys and LED indicators for frequently-accessed functions
- Recessed Compact Flash slot
- Runs on 8 AA batteries (Alkaline, NiMH or NiCd) or DC power adapter
- Approximately 5 hours of operating time on battery power
- Durable and lightweight housing for field use
- Supplied accessories: Shoulder Belt, Carrying Case, AC adapter CS-P2

Specifications

General	
Recording media	CompactFlash® card (40x/80x), Microdrive®
File system	FAT16, FAT32
Recording format	Broadcast Wave audio files (BWF)
Quantization	16/24 bit linear
Sampling frequencies	44.1/48/88.2/96/176.4/192 kHz
External clock	SPDIF, Video (NTSC or PAL), LTC, Word
Frame rates	23.976, 24, 25, 29, 29.97 DF/NDF, 30 DF/NDF

Audio inputs and outputs	
MIC input	2 x XLR-3-31 (1: GND, 2: HOT, 3:COLD), 1.3 kOhm
Input level	–60 dBu (Trim max) to –13.8 dBu (Trim min)
Headroom	16 dB (22 dB with limiter)
PAD	20 dB
Phantom Power	+48 V, 10 mA
LINE input	2 x RCA, 10 kOhm
Input level	–46.2 dBV (Trim max) to 0 dBV (Trim min)
Headroom	16 dB
LINE output	2 x RCA, 100 Ohm
Nominal output level	–10 dBV
Maximum output level	+6 dBV
DIGITAL input	RCA (coaxial), 75 Ohm
Audio format	IEC60958 (SPDIF)
DIGITAL output	RCA (coaxial), 75 Ohm
Audio format	IEC60958 (SPDIF)
PHONES	6.3-mm stereo phone jack
Maximum output power	55 mW + 55 mW (at 32-Ohm load)
Built-in loudspeaker	500 mW, 16 Ohm

Other inputs and outputs	
TIMECODE INPUT	XLR-3-31 (1: GND, 2: HOT, 3:COLD), 75 Ohm
VIDEO INPUT	BNC, 75 Ohm
KEYBOARD	PS/2
FIREWIRE	IEEE 1394 (6-pin), 400 Mbps

Audio performance	
Frequency response	20 Hz to 20 kHz, –1.0 dB (44.1/48 kHz) 20 kHz to 40 kHz, +0.5 dB/–3.0 dB (88.2/96 kHz) 40 Hz to 80 kHz, +0.5 dB/–20.0 dB (176.4/192 kHz)
Dynamic range	> 105 dB(A) (MIC to LINE OUT, 44.1 kHz, 22-kHz LPF)
Total harmonic distortion	< 0.01 % (1 kHz, MIC to LINE OUT, max level (22 to 22,000 Hz), Trim min, 22-kHz LPF)
Crosstalk	> 80 dB (1 kHz)
Delay	1.5 ms (44.1 kHz), 0.7 ms (192 kHz)
Limiter attack/release time	< 25 µs / < 50 ms
Low Cut filter	100 Hz (18 dB/Oct.)

Power supply and other specifications	
AC adapter input voltage	100 V AC, 50–60 Hz, 120 V AC, 60 Hz, 230 V AC, 50 Hz, 240 V AC, 50 Hz
AC adapter output voltage	12 V DC (600 mA)
Batteries	8 x AA (SUM-3), Alkaline, NiMH (recommended), NiCd
Power consumption	6 W (with CompactFlash)
Operating temperature	0 °C to 35 °C
Display	240 x 160 px with backlight
Dimensions (W x H x D)	245 mm x 188 mm x 60 mm
Weight	1.2 kg (excluding batteries and AC adapter)
Supported operating systems	Windows XP, Macintosh OS X (10.3 or higher)

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