TASCAM

HS-P82

Professional Multi-Track Field Recorder

The HS-P82 offers 8 tracks of the highest quality recording, yet it's built for the rigours of location recording with reliable solid-state performance. The HS-P82 is built for location television and film production audio, with eight microphone inputs for big shoots or reality programs. The standard XLR microphone inputs include phantom power and analogue limiting, with trims controlled from recessed front-panel controls. In addition to the eight individual tracks, a stereo mixdown can be recorded for instant use during editing.

Audio is recorded at up to 192kHz/24-bit WAV format to a pair of CompactFlash cards. This solid-state media is completely reliable with no moving parts, and you can record to both cards simultaneously for extra security. The Broadcast WAV files include iXML metadata for quick import into nearly any video or audio editing system, either via the USB 2.0 connection or a standard card reader.

The HS-P82 offers several options for power supply. It runs on either AA or NP batteries, the included AC adapter, external DC input or a V-mount adapter for Endura batteries. An internal slate microphone is available for naming takes. Functions like a 5-second pre-record buffer, front panel lockout and headphone output alert signal further inspire confidence.

For high-resolution music recording, a set of AES/EBU connectors is available for attaching pedigree A/D converters and preamplifiers. SMPTE timecode in and out, video and word sync are provided. All of this is controlled from a color touchscreen interface which makes operation fast and simple. For even more intuitive control, a fader unit and transport controller is available as an option (**RC-F82**).

Related products

DR-680MKII: 8-Track Field Recorder

DA-6400: 64-track Audio Recorder

Features at a glance

- **Dual CompactFlash recording media supports backup and mirroring**
- **Long battery life through low power usage**
- **Easy to read and operate using pivoting TFT colour touch panel interface**
- **All-aluminum chassis is rugged yet lightweight**
- **8 -track recording plus stereo mix for a total of 10-track recording**
- **8-track recording at up to 96 kHz/24 bit**
- **4-track recording at 192 kHz/24 bit**
- **Mirror recording over two CF cards (44.1 kHz/48 kHz only)**
- **Broadcast WAV (BWF) support with iXML metadata**
- **Support for mid-side (MS) encoding/decoding**
- **Various power options:**
  - NP type batteries
  - AC adapter (included)
  - External DC input
  - Optional V-mount adaptor for Endura batteries
  - AA batteries (x10)
- **Pre-record buffer (up to 5 seconds)**

- **Internal microphone for slate recording**
- **Limiter and low-cut filter per track**
- **Auto or manual cue points**
- **Alert signal to headphone output**
- **Retake function**
- **Panel lockout function to prevent accidental transport switching**

  Inputs/Outputs
- **8 high-quality microphone preamps and A/D converters with independent 48V phantom power for each (standard XLR connectors)**
- **8 AES/EBU inputs and outputs (DB-25 connector)**
- **Sampling rate converter on each AES/EBU input**
- **2 balanced analogue outputs (XLR connectors)**
- **Stereo digital output (BNC connector)**
- **SMPTE Timecode input and output (BNC connector)**
- **Video/Word Clock/Cascade input/output (BNC connector)**
- **Headphones output (6.3-mm stereo jack)**
- **PS/2 keyboard input for track naming**
- **USB 2.0 high-speed data transfer to PC**

Specifications

General	
Recording media	CompactFlash card
Tested media	SanDisk Extreme IV 4 GB, 8 GB, 16 GB
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File system	FAT32
File format	BWF (single-channel, multi-channel)
Number of audio channels	8 channels at 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz
	8 channels + stereo mix at 44.1 kHZ, 48 kHz
	4 channels at 176.4 kHz, 192 kHz
Quantization bit rates	16 bit/24 bit
Sampling frequencies	44.1/47.952/48/48.048/88.2/96/176.4/192 kHz
	(47.952/48.048: 48 kHz ± 0.1% pull-up/pull-down)
Reference clock	Internal, Word in, Video in,
	Digital in (CH 1-2, CH 3-4, CH 5-6, CH 7-8)
Timecode frame rates	23.976, 24, 25, 29.97 DF, 29.97 NDF, 30 DF, 30 NDF
Built-in mic	Omni directional, monaural
Low cut filter	Cut-off frequency: 40/80/120 Hz
	Slope: −12/−18 dB/oct

Analogue audio inputs and outputs

MIC IN/LINE IN connectors (1–8)	XLR-3-31 (1: GND, 2: HOT, 3: COLD)
Input impedance (LINE)	10 kΩ
Nominal input level (LINE)	+ 6 dBu (Ref. level: –9 dB)
	+ 4 dBu (Ref. level: Other than –9 dB)
Maximum input level (LINE)	Selectable: +15 dBu, +18 dBu, +20 dBu, + 22 dBu, +24 dBu
Input impedance (MIC –25)	2.4 kΩ
Minimum input level (MIC –25)	–45 dBu
Maximum iput level (MIC –25)	+11 dBu
Input impedance (MIC 0)	2.4 kΩ
Minimum input level (MIC 0)	–70 dBu
Maximum input level (MIC 0)	–14 dBu
LINE OUT connectors (L/R)	XLR-3-32 (1: GND, 2: HOT, 3: COLD)
Output impedance	100 Ω or less
Nominal output level	+6 dBu (Ref. level: –9 dB)
Nominal output level	+4 dBu (Ref. level: Other than –9 dB)
Maximum output level	Selectable: +15 dBu, +18 dBu, +20 dBu, +22 dBu, +24 dBu
PHONES connector	6.3-mm stereo phone jack
Maximum output power	100 mW + 100 mW or more (THD+N: 1 % or less, at 32 Ω)

Digital audio inputs and outputs

DIGITAL I/O connector	D-Sub, 25-pin connector
Format	AES3-2003/IEC60958-4 (AES/EBU)
Minimum input voltage	200 mVpp
Maximum input voltage	7 Vpp
Output voltage	3.5 Vpp
DIGITAL OUT connectors	BNC
Format	AES3-2003/AES-3id-2001 (AES/EBU)
Output voltage	1 Vpp at 75 Ω

Control inputs and outputs

EXT DC IN connector	XLR-4-32 (1: –, 2: NC, 3: NC, 4: +)
Input voltage	11–16 V (2 A)
CASCADE/WORD/VIDEO IN connector	BNC
Input voltage	5 V TTL equivalent
Input impedance	75 Ω ±10 %
Allowable frequency deviation of external sync	±100 ppm
CASCADE/WORD OUT connector	BNC
Output voltage	5 V TTL equivalent
Output impedance	75 Ω ±10 %
Sampling frequencies	44.1/47.952/48/48.048/88.2/96/176.4/192 kHz (47.952/48.048: 48 kHz ± 0.1 % pull-up/pull-down)
TIME CODE IN connector	BNC
Input voltage	0.5–5 Vpp
Input impedance	10 kΩ
TIME CODE OUT connector	BNC
Output voltage	2.0 Vpp
Output impedance	600 Ω
USB port	USB B-type, 4-pin
Format	USB2.0 HIGH SPEED (480 MBit/s)
KEYBOARD connector	Mini-DIN connector (PS/2)

Audio performance

Frequency response (MIC/LINE IN to LINE OUT)	
All sample rates	20 Hz – 20 kHz, 0 dB (±0.5 dB)
88.2/96 kHz sample rates	at 40 kHz –1 dB (±1.0 dB)
176.4/192 kHz sample rates	at 80 kHz –3 dB (+1/–2 dB)
Distortion	
LINE IN to LINE OUT	0.003 % or less (–20 dB reference level, +23 dBu input, 1 kHz, AES-17 LPF)
MIC IN (MIC –25) to LINE OUT	0.02 % or less (–20 dB reference level, –10 dBu input, Trim at +20 dB, 1 kHz, AES-17 LPF)
MIC IN (MIC 0) to LINE OUT	0.02 % or less (–20 dB reference level, –35 dBu input, Trim at +20 dB, 1 kHz, AES-17 LPF)
S/N ratio	
LINE IN to LINE OUT	110 dB(A) or more (22 kHz LPF)
MIC IN (MIC –25 or MIC 0) to LINE OUT	100 dB(A) or more (22 kHz LPF)

Computer compatibility

Windows	
CPU	Pentium 300 MHz or faster
Memory	128 MB or more
USB	USB 2.0 port
Mac	
CPU	Power PC G3, G4, Intel Mac 266 MHz or faster
Memory	64 MB or more
USB	USB 2.0 port
Recommended USB host controller	Intel chipset

Power supply and other specifications

Power requirements	100–240 V AC, 50–60 Hz (AC adaptor PS-1225L) 10 AA batteries (Alkaline or NiMH) External DC battery (DC 11–16 V, 2 A or more)
Battery operation time (continuous operation)	Measured according to JEITA standard at 48 kHz, 24-bit, 8 ch playback or recording, phantom power off. Varies with operating conditions.
NP type battery (Li-Ion: 14.8 V/4.6 Ah)	About 5 hours
AA type batteries (NiMH)	About 2 hours
Power consumption	18 W
Dimensions (W x H x D)	270 mm x 100 mm x 260 mm (excluding protrusions)
Weight	3.65 kg (excluding batteries)
Operating temperature range	0–40 ºC

Design and specifications subject to change without notice.