

Professional Portable DAT Recording System

PORTADAT







PORTADAT

a four bay fast charger available as an option.

With Nickel Metal Hydride (Ni-MH) technology,

batteries are less susceptible to the 'memory

effect' associated with Ni-Cads, and therefore

professional features goes on: 48V phantom

powering; balanced XLR inputs; selectable

sampling rate (32/44.1/48kHz); SPDIF and

AES/EBU digital I/O; on-board limiting; large, clear record, pause and level controls which are

easily operated while wearing gloves; a large, clear back-lit LCD display; an internal monitor

speaker; and comprehensive indexing facilities.

The PORTADAT's comprehensive list of

run at full capacity throughout a longer lifetime.

Exceptional sound quality. Rugged build.



- Buttons for: end search, renumber, actual / recorded time and date display, end ID, ID erase, and auto ID on / off.
- Switches for: power on / off, key hold (locks transport controls), and open cassette compartment cover.
- Transport controls: ID search back / forward, rewind / review, play (with LED), fast forward / cue, and stop.
- 6 Switches for: L/R line / mic (HP filtered), mic input attenuation, +48V phantom power, internal limiter.
- 12V DC power input.
- Removable panel for access to clock back-up battery. Optional HM1000 headphone matrix replaces this panel.

- 12 Back-lit LCD display showing clock and counter, battery status, peak level metering, margin indicator, source / tape monitor, transport status, and selected sample rate.
- 13 Front panel controls: large sliding record key (with LED), large pause key (with LED), independently lockable L/R record level controls, ID write, time display format, counter / margin indicator reset, display illumination on / off, tape / source monitoring.
- Phono sockets for: SPDIF in / out, analogue out L/R.
- 15 XLR sockets for: AES/EBU digital in / out, balanced analogue in L/R.

The industry standard for location sound recording.



The PORTADAT is available in two versions - the PDR1000 (pictured left) and the PDR1000TC (above). The PDR1000TC offers all the features of the PDR1000, along with the facility to record, generate and reference to timecode in all existing international standards, as well as to jam sync and convert absolute time to linear timecode. Frame rate is selectable between 24. 25 (PAL), 29.97 drop frame (NTSC), 29.97 nondrop frame (NTSC) and 30 frames per second. Timecode can be recorded as time of day. preset free run or record run, and can be set to internal or external generation. The PDR1000TC also features a built-in chase synchroniser, allowing the machine to slave to an incoming timecode source.

PDR1000TC Features

- Side panel can be replaced by optional MS1000 Master sync module.
- 2 Internal / external timecode source selector.
- Timecode generator control panel (user bit set and reset, increment / decrement of selected digits).
- Back lit LCD display showing timecode and user bits, frame rate, sync mode, drop / non-drop indicator, timecode errors, timecode lock, and load timecode errors.
- 5 Timecode display controls for: int / ext / tape, user bits display, display timecode as user bits.

- 6 User bits source selector (internal user bits, date, external user bits, external timecode).
- 7 Timecode generator mode selector (time of day, record run, free run).
- Frame rate selector (24, 25 (PAL), 29.97 drop frame (NTSC), 29.97 non-drop frame (NTSC), 30 FPS).
- 9 BNC connectors for: word sync output, video / word sync input, video / word sync through.
- 10 XLR connectors for: linear timecode balanced input and output.

Optional Upgrades

MS1000 MASTER SYNC

The optional MS1000 Master Sync module makes PORTADAT the most accurate portable timecode DAT recorder on the market, ensuring that drift does not exceed 1 frame in 10 hours. Compatibility with Aaton timecode film cameras is provided by the standard Lemo socket, and the MS1000 also adds the facility to pull up from 29.97 FPS drop to 30 FPS drop. The MS1000 can be specified at the time of purchase or can be installed as a retrofit to any PDR1000TC.

HM1000 HEADPHONE MATRIX

While many recorders require
you to build custom headphone
monitoring systems, the PORTADAT offers
its own integral solution. The HM1000
Headphone Matrix features a large rotary switch which
changes between stereo, mono left, mono right, mono sum
and M/S stereo configurations. Again, the HM1000 can be specified
as you order your PORTADAT, or can be retrofitted.

PORTADAT PDR1000TC PLUS

Comprehensive and cost-efficient; quite simply the ultimate location recording system. The PORTADAT PDR1000TC *PLUS* consists of the standard PDR1000TC (as described left), with the MS1000 Master Sync Module (above) and the HM1000 Headphone Matrix (above right) fitted.

These optional upgrades are installed and tested at the time of purchase, ensuring that you have a fully unified digital location recording solution from the word go.



HHB DAT TAPE: The complete solution

As the world's leading independent supplier of DAT technology and developers of the industry standard PORTADAT, it comes as no surprise that HHB also produces the industry's most advanced range of DAT recording tape. Part of the HHB Advanced Media Products range, HHB DAT Tape is available in 6 convenient tape lengths to minimise costly wastage, and while other manufacturers use thinner tape for longer running times, all HHB DATs are full thickness. An advanced binder formulation ensures consistently low block error rates, while the anti-static lid of the precision engineered cassette shell discharges particularly quickly, resisting dust build-up. A new improved design in the hub lock assembly creates a more efficient braking action, reducing tape slack when ejecting and hence providing better loading.

In the independent head to head testing of 7 leading DAT tape brands by the widely respected pro audio journal 'Studio Sound', HHB DAT Tape emerged as a clear winner with consistently low block error rates and superior archival security.



TECHNICAL DATA



| AUDIO PERFORMANCE |
|--|
| Frequency Response |
| Sampling rates 48/44.1/32kHz via analogue or digital inputs |
| Signal-To-Noise-Ratio |
| THD + Noise |
| Wow and Flutter Below measurable limits |
| ANALOGUE INPUTS (2 X XLR3-F) |
| Microphone Input66dBu, impedance >10K Ω |
| Line Input OdBu, impedance = $47K\Omega$ |
| (Figures quoted are to achieve a recorded -12dBFS with record gain at max) |
| ANALOGUE OUTPUTS |
| Line Output (2 x Phono/RCA Sockets) 2Vrms max, load impedance >10 K Ω |
| Headphone Output (1/4"/6.5mm stereo jack) 12.5mW + 12.5mW, EIAJ 32Ω |
| DIGITAL I/O |
| AES/EBU In (XLR-3F) 3-10V pp per IEC958 Type 1 standard |
| AES/EBU Out (XLR-3M) 5V pp per IEC958 Type 1 standard |
| SPDIF In (Phono/RCA Socket) 0.5V pp 75Ω per IEC958 Type 2 standard |
| SPDIF Out (Phono/RCA Socket) 0.5V pp 75Ω per IEC958 Type 2 standard |

POWERING

| External DC Input (XLR-4M) | 12V DC, 9W (10-14V DC |
|-----------------------------------|-------------------------------------|
| MHB220 Rechargeable Battery 6V, 2 | 400mAH Nickel Metal Hydride pack |
| RB110 AC Adaptor | 100-240V AC, 18W |
| Operating Time 2 hrs using MHB220 | rechargeable pack after 2 hr charge |
| (Recor | d mode, without phantom powering |
| | or display backlight |

ADDITIONAL FEATURES

| Phantom Powering 48V, 7mA max |
|--|
| Microphone High Pass Filter 100Hz, 6dB per octave approx |
| Limiter Operating threshold -3dB approx |
| Monitor Speaker |
| Remote Control Allows control of: Play, Stop, Record, Pause, |
| Fast Fwd Rewind Skin Back Skin Forward functions |

PHYSICAL

| External Dimensions | 240(W) x 55(H) x 177(D) | mm (9.5 | x 2.1 x 7.0 ins) |
|--------------------------|-------------------------|---------|------------------|
| Weight (without battery) | | | 1620g (3.6 lbs) |
| Weight (with battery) | | | 1940g (4.3 lbs) |

PDR1000TC



| Standards Supported 24, 25, 29.9/NDF, 29.9/DF, 30 FPS | | | |
|---|--|--|--|
| per EBU and SMPTE standards | | | |
| Tape Format Conforms to IEC 461 | | | |
| Compatible Nominal Sample Frequencies 48KHz, 44.1KHz | | | |
| EXTERNAL SYNCHRONISATION | | | |
| Video Composite video (PAL, NTSC, SECAM) +/- 0.1% | | | |
| Field Sync | | | |
| Word Sync | | | |
| INPUTS AND OUTPUTS | | | |
| Time Code Input (XLR-3F) 0.2-18V pp, impedance 8KΩ | | | |

Time Code Output (XLR-3M) 2.2V pp, impedance 600Ω

Video/Word Sync Input (BNC).. Video Sync, 1-4V pp. Word Sync, TTL level

Video/Word Sync Through (BNC). Connected in parallel to above Use for loop through or 75Ω term **POWERING**

MHB220 Rechargeable Battery . . . 6V, 2400mAH Nickel Metal Hydride pack Operating Time . . 1.5 hrs using MHB220 rechargeable pack after 2 hr charge (Record mode, without phantom powering or display backlight)

PHYSICAL

| External Dimensions | 240(W) x 95(H) x 177(D) mm (9.5 | 5 x 3.7 x 7.0 ins) |
|--------------------------|---------------------------------|--------------------|
| Weight (without battery) | | . 2280g (5 lbs) |
| Weight (with battery) | | 2600g (5.7 lbs) |

PDR1000TC PLUS

Specifications as PDR1000TC, with the following optional upgrades factory fitted:



Includes upgrades: HM1000 Headphone Matrix MS1000 Master Sync Module

TIME CODE

ACCESSORIES

| SUPPLIED ACCESSORIES (PDR 1000, PDR 10001C & PDR 10001C PLUS) |
|---|
| 1 x Carrying Case |
| 1 x MHB220 Rechargeable Nickel Metal Hydride battery pack |
| 1 x RB110 12v DC power supply / 2 bay charger |
| 1 x |
| 1 x Operating Instructions |
| |

CURRULED ACCECCRIFE (DRD1000 DRD1000TC o DRD1000TC DLUC)

| | Operating Instructions |
|-----------------|--|
| OPTIONAL ACCESS | RIES |
| AR1000 | Portabrace case for PDR1000 |
| AR1000TC | Portabrace case for PDR1000TC / PDR1000TC PLUS |

| D | 100 AC power supply |
|-----|--|
| Г | 100 Ac power supply |
| M | A1000 AC/DC powered 4-bay fast charger |
| R | C1000 Remote control connector |
| PΙ | RSERV PDR1000 service manual |
| PΙ | RTCSERV PDR1000TC service manual |
| H | B DAT15, DAT35, DAT50, DAT65, DAT95, DAT125DAT Tape |
| Fo | consistently lower block error rates, improved archiving stability and |
| re | uced head wear, HHB Communications recommends the use of HHB DAT |
| tai | a with PORTADAT portable DAT recorders |

| AR10001C | Portabrace case for PDR10001C / PDR10001C PLUS |
|-----------|--|
| PDRCASE. | Aluminium case for PDR1000 or PDR1000TC / PDR1000TC PLUS |
| MHB220 . | Additional rechargeable NiMH battery pack |
| RB110 | Additional 12v DC power supply / 2-bay charger |
| DCP1000 . | 10V-14V vehicle power cable (connects to cigar lighter) |
| | |

OPTIONAL UPGRADES

| MS1000 | . Master Sync Module |
|--------|----------------------|
| HM1000 | Headphone Matrix |



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