

Z-DR1

DOCKABLE DIGITAL RECORDER



Z-DR1

Field Recorder for Hitachi Portable Cameras

Z-DR1 Dockable Digital Video Field Recorder for Hitachi SDTV Professional Cameras

The Z-DR1 is a field video recorder specially manufactured for Standard Definition Hitachi Professional portable cameras by nNovia Inc. Its dockable lightweight design allows use with all Hitachi portable camera models.

Compared to currently available "tape-less" camera technologies on the market, the Z-DR1 offers **the most practical** solution in digital video field acquisition. The implementation of Hard Disc drives in just about every piece of equipment in TV production and post-production processes is the elementary reason for its use in the design of the Z-DR1. Hitachi 2.5-inch Hard Disc Drives (Mediapac™) are used as the primary digital storage device in the new Z-DR1.

Hard Disc Drives presently surpass any other data storage device on the market when it comes to cost-per-gigabyte and ease of use. The economic and practical factors associated with IT-centric technologies currently being used in the TV industry are undeniable. Portable HDDs used with the Z-DR1 offer an investment guarantee unlike any other digital video recording device on the market.



- Applicable to the following Hitachi portable camera models:
- ▶ SK-900
 - ▶ SK-888
 - ▶ SK-777
 - ▶ SK-555
 - ▶ Z-4000W
 - ▶ Z-3500
 - ▶ Z-3000W
 - ▶ Z-3000
 - ▶ Z-2500

Major Features

- ▶ Features rugged, reliable Hitachi Travelstar 2.5-inch hard disc drives, the industry standard in most laptop and portable media devices.
- ▶ Hard Disc storage of digital audio and video is presently the most cost-effective and practical method of recording from a camera.
- ▶ Mediapac™ is available in recording times ranging from 3 to 9 hours per drive.
- ▶ Unsurpassed capacity-to-cost ratio compared to solid-state and optical disc.
- ▶ Metal case and special shock protection mounts ensure the Hard Disc Drive reliability.
- ▶ Leather case included for protection of the Mediapac™ exterior.
- ▶ Mediapac™ available directly from Hitachi Denshi America, Ltd. and Audavi Corporation.
- ▶ Can be used in docking bay for PC, stand-alone as portable media device, or with any of the PC interface adapters offered.
- ▶ Laptop IOs include PCMCIA, Firewire, USB, for great compatibility with currently available portable PCs.
- ▶ Records popular *.avi and *.mov file formats for use with most NLEs (non-linear editing suites) presently on the market.

Practical Tape-less Workflow Solutions



The Z-DR1 provide Hitachi camera users a new, reliable, easy to use and inexpensive digital field recording method.

It's a straight-forward digital video file recording system that avoids pitfalls and complexities of other competitive recorders.

Provided are popular user features such as:

- ▶ Loop record
- ▶ Time-lapse (animation) record
- ▶ External time code record
- ▶ HDD emulation mode
- ▶ Clip markers
- ▶ Camera trigger/ tally system
- ▶ Viewfinder monitoring.

Mediapac™ portable drives are ruggedized enclosures for the Hitachi hard discs. These are fast becoming the industry standard for large volume multimedia storage applications.

They can also easily adopt any other storage technology that may be developed in the near future including solid-state memory chips.

The Mediapac™ bay offers easy offload of recorded video to a desktop NLE or NAS (Network Attached Storage) device.

It occupies the space of a standard floppy drive and is offered with USB, Firewire, SCSI and SATA computer interfaces. The bay is compatible with most PCs currently manufactured.

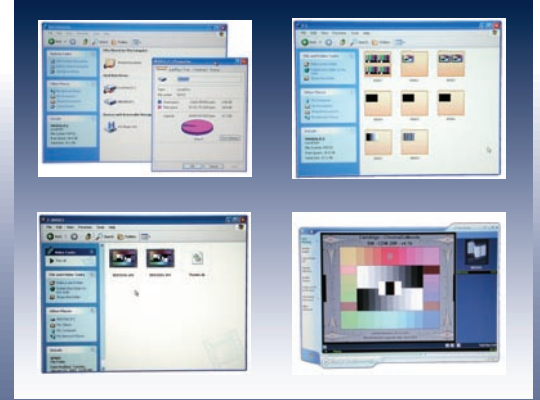
The Z-DR1 can use any of the different capacity Mediapac™ sold. Recording time will vary from 3 to 9 hours per drive depending on the drive's capacity.

The low cost of the Mediapac™ drives now make Tape-less recording in professional cameras a reality.

The Mediapac™ cartridges can be used in Hitachi cameras with the same convenience videotape users are used to.



Economical, Simple and Reliable



A minimal amount of equipment is needed to quickly go from shooting to editing. The Mediapac drive can be directly connected to a PC or MAC via USB, Firewire or inserted in the Desktop Bay. The PC's OS sees the drive natively. Editing can be performed right off the disc further accelerating your work.

User Interface



The Z-DR1 provides useful Inputs and Outputs to enhance the unit's versatility when used in Field Production. Analog composite, Time Code, program balanced audio in and out, analog audio monitor out, remote record trigger, and Digital Firewire are all available.

A comprehensive control panel allows quick access to commonly used functions. The panel can be locked to avoid accidental operation. LED audio VU meters, video record input selection, mic phantom power, record audio source select, audio levels, monitor level are some of the functions accessible soft-keys and menu display.

Specifications

Item	Specification
Camera Connectivity:	Component Y, R-Y, B-Y via 128-pin interface.
Inputs & Outputs:	Analog Composite Video In / Out.
Genlock (Input)	Black-Burst; Composite Sync via 128-pin camera interface.
Digital Video In / Out:	IEEE 1394, 6-pin
Balanced Audio In / Out:	L/R input via 3-pin XLR, output via 3-pin mini-XLR.
SMPTE Time Code In:	BNC, 0.5v p-p
GPI Trigger:	Contact closure On/ Off.
Power:	12VDC Accy output.
Audio Monitor:	Stereo Mini-Jack.
Audio:	2- modes user selectable 32kHz/ 12-bit/ 2-ch. 48kHz/ 16-bit/ 2-ch.
Recording Format:	DV25; NTSC and PAL.
File Format:	*.avi type-2, *.mov
Recording Time:	(45min/GB) on removable media Mediapac™

Item	Specification
P/N: HTS-6505-40 Mediapac™	40GB: 3hr.
P/N: HTS-6505-60 Mediapac™	60GB: 4.4hr.
P/N: HTS-6505-80 Mediapac™	80GB: 6hr.
P/N: HTS-6505-100 Mediapac™	100GB: 7.4hr.
P/N: HTS-6505-120 Mediapac™	120GB: 8.9hr.
Power Consumption:	6 Watts Average Draw.
Power Requirement:	12 VDC
Size:	5.6" (L) X 6.6" (H) X 5.4 (W).
Weight:	Approximately 33 ounces.
Power Requirements:	12 VDC via Camera Battery / External AC Adapter via industry std 4-pin XLR.
Recorder Shock Protection:	Anti-Shock Resistant Buffer & mechanical mounting.
HDD Shock Protection	
Operational Shock:	250G/2msec.
Non-operational Shock:	5,000G/0.5msec.
Operational Vibration:	1.0G (5-500 Hz).
Non-operational Vibration:	5.0G (10-500 Hz).
Backlit LCD display:	File Number. Time Code. Recording Time Remaining on HDD.
Temperature:	-41°F ~ +104°F Operational -40°F ~ +149°F Non-Operational.

These specifications and features are subject to change without notice. Contact your nearest Hitachi representative for the most current information.

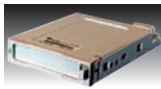
Accessories



Mediapac™
Enclosure for Hitachi 2.5-inch removable Hard Disc Drives.
Available in capacities from 40GB to 120GB, silver or black color chassis.
See Specifications section for P/NS.



Mediapac™ 5.25-inch modular bay.
For use with Desktop NLE PCs, NAS, File Servers.
Available in Black or Beige bezel colors.



Mediapac Bay Part Numbers:

- ▶ HTS-6500-BAY-BK (IDE/ black)
- ▶ HTS-6500-BAY-BG (IDE/ beige)
- ▶ HTS-6500-BAY-USB-BK (USB/ black)
- ▶ HTS-6500-BAY-USB-BG (USB/ beige)
- ▶ HTS-6500-BAY-LT44-BK (44-pin laptop/ black)
- ▶ HTS-6500-ADP-BK/BG Mediapac Bay Adapter Bracket for CD/DVD Slot (Black or Beige)



Custom NAS (Network Attached Storage) systems solutions are available.



External Mediapac Bay Part Numbers:

- ▶ HTS-6500-BAY-USFW-EXT: HardTape Bay Kit External with USB/FW Interface.
- ▶ HTS-6500-BAY-SC50-EXT: HardTape Bay Kit External with Narrow 50-pin SCSI Interface
- ▶ HTS-6500-BAY-SC68-EXT: HardTape Bay Kit External with Wide 68-pin SCSI Interface.



PCMCIA Laptop IF Kit
P/N HTS-6595-PCMKIT



RAID-1 Mediapac™ copier metallic color P/N HTS-2RAID-0SR



USB Laptop IF Kit
P/N HTS-6595-USBKIT



IEEE1394B (Firewire) Laptop IF Kit
P/N HTS-6595-FWKIT

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Printed in the United States of America

Z-DR1 issue 2.0 - June '05

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