

ivDR^{VC102} VIDEO CAPTURE DEVICE

POWERED BY
CitiDISK[®]



maxell
PROFESSIONAL



INTRODUCING THE iVDR VC102 VIDEO CAPTURE DEVICE

POWERED BY CitiDISK®

THE NEWEST INNOVATION IN FIELD TOUGH MEDIA

iVDR OFFERS THE ULTIMATE IN PORTABLE TAPELESS VIDEO

iVDR is the new standard in removable media designed for high-speed, high-resolution video imaging. The iVDR interface is the key. Based on a serial ATA model, this 26pin interface could produce transfer rates beyond SATA's 1.5Gz bps.

Whether off-loading HD video, recording, or editing footage in the field, now you can keep all your files with you on drop, shock and vibration-resistant Field Tough Media.

iVDR VC102 FEATURES AND BENEFITS

- Combines Maxell's world-renowned, removable "Field Tough Media" with Shining Technology's patented, award-winning CitiDISK® tapeless video recorder
- Supports DV, DVCAM, DVCPRO, DVCPRO 50, DVCPRO HD & HDV, QuickTime, AVI
- Storage capacity up to 500GB
- Recording time: Up to 38 hours (DV, HDV); up to 9 hours (HD) – with 500GB cartridge
- Battery life: 90 minutes (continuous recording, internal; 3.0 hrs., external)
- Self-powered rechargeable internal battery (lithium)
- Removable media offers great flexibility in the field - pocket-size, lightweight and more durable than other external hard drives
- Camera-controlled, or "slave" recording with or without tape, P2 Card and XDCAM SxS with media in camera
- Pre-scene loop recording; Quick play last captured scene or loop play captured scenes
- Built-in LCD with scrolling menu – provides convenient input commands and status information
- Easy-to-use menu system
- Easily import video clips for seamless, instant non-linear HD/DV editing (plug-n-play)
- Archive tape content
- Ultra-portable, rugged design
- Costs up to 40-percent less than flash (solid-state) media
- Quick erase button and utility programs



ULTRA-PORTABLE TAPELESS VIDEO THAT'S REMOVABLE, RUGGED, INSTANT, AND ANYWHERE.

THE NEW iVDR VC102: ACQUISITION TO EDITING ON THE FLY

The Maxell VC102 is a lightweight, ultra-portable tapeless video capture device optimized for direct recording from virtually any FireWire-enabled DV video camera. Featuring cost-effective, high-capacity storage, native QuickTime/AVI support, and other Direct-to-Disk capabilities you rely on, the iVDR VC102 is designed to help you save time, effort and money in the field.

RECORD AND DIGITIZE IN JUST ONE STEP

iVDR VC102 saves both professional shooters and editors many hours of production time by eliminating the often "dreaded" process of tape recapture or digitization. This is because VC102 streamlines the process for you automatically—your footage is digitized in real-time as it's being recorded. This one product benefit alone saves productions precious man-hours, money and other valuable resources.

COMPACT AND DURABLE

The unit's ultra-portability, removable high-capacity storage, and multiple mounting options provide video professionals a wide range of flexibility – especially in the field.

ADAPTABLE

iVDR VC102 connects via FireWire to DV, HD, and HDV camcorders to simultaneously or independently capture footage to tape and/or a removable high-capacity iVDR EX rugged hard drive cartridge. When shooting is complete, simply set camcorder to VCR mode to PLAY the last scenes on the viewfinder or plug directly into your computer's FireWire port to edit or play your video footage at anytime.

USER-FRIENDLY

Featuring a backlit LED, an easy-to-use scrolling menu system, and rechargeable lithium battery, the iVDR VC102 is the perfect Direct-to-Disk companion for virtually any FireWire-enabled camcorder. Additionally, audio, video, time-code, and control information are passed through the single FireWire cable.

THE iVDR EX MEDIA

iVDR EX, with up to 500GB of storage, provides reliability and ruggedness not found in other portable disk-based products. These features along with its compact size and versatility make it extremely well suited for ENG and other potentially rough field applications.

A cartridge capacity of 500GBs provides storage for up to 38.0 hours of DV and HDV or 9.0 hours of HD footage. A Maxell iVDR EX cartridge is rated to withstand non-operating shock of more than 2000Gs and operating shock equal to or greater than 350Gs, so it can be dropped repeatedly from a height of nearly five feet onto a tile or concrete floor without damage. In addition, it has a temperature range of -40° C to +70° C (up to 95% non-condensing humidity), which complies with MIL standards for thermal shock. It is also rated to operate at a maximum altitude of 10,000 ft.

Together, with the iVDR VC102, these two products create a video recording and storage powerhouse for today's DV/HDV/HD professional.

ivDR VC102

SPECIFICATIONS

INTERFACE	One IEEE 1394A port SBP-2 and Isochronous DV & HDV video streams
CABLES	One 6-pin to 4-pin (right angled) FireWire cable included One 6-pin to 4-pin (left angled) FireWire cable included One 6-pin to 6-pin FireWire cable included
SUSTAINED TRANSFER RATE	18 - 22 MB/s
INTERNAL BATTERY	Rechargeable, lithium battery good for up to 90 minutes of nonstop recording; 3.0 hours external
EXTERNAL POWER	+6V to +18V DC in
OPERATING TEMPERATURE	-10 to 55 Centigrade (14 – 131 Fahrenheit) Note: Environmental conditions, such as extreme temperature, may have an impact on the output battery.
STORAGE TEMPERATURE	-22 to 65 Centigrade (-7.6 – 149 Fahrenheit)
RELATIVE HUMIDITY	95% Maximum
RECORDING CAPACITY	Consult the Quick User's Guide
DIMENSIONS	Width: 91.71mm (3.61in), Length: 151.62mm (5.96in), Height: 32.91mm (1.29in)
WEIGHT	226 grams (8 ounces)

CitiDISK is a registered trademark of Shining Technology, Inc. DVCPRO, DVCPRO 50, DVCPRO HD and P2 are trademarks of Panasonic Corp. Final Cut Pro & QuickTime are trademarks of Apple Computer, Inc. HDV is a trademark of Sony Corp. & JVC. SxS is a trademark of Sony Corp. Other product and company names mentioned herein may be trademarks of their respective companies.

FORMAT

Camera Video Formats Supported DV, DVCPRO, DVCPRO 50, DVCPRO HD & HDV

RECORDING MODES SUPPORTED

FORMAT	RAW DV	MOV	AVI'S	M2T
DV	•	•	•	
DVCPRO	•	•	•	
DVCPRO 50	•	•	•	
DVCPRO HD	•	•	•	
HDV				•

* **Note:** Consult <http://www.maxell-ivdr.com>

NLE SYSTEM COMPATIBILITY

Because the VC102 is capable of recording video in a wide range of formats, it's compatible with a large number of nonlinear editing systems. For example, you can record DV, DVCPRO, DVCPRO 50, DVCPRO HD in native QuickTime mode and import clips directly into Final Cut Pro.

APPLICATIONS

- Rugged or harsh environments
- Particularly suitable for mobile ENG workflow
- Documentaries, corporate, sporting or house of worship events
- Military field applications
- Mobile medical or forensics
- Mobile videography
- Mobile law enforcement
- Other types of mobile productions

iVDR 500GB AND 250GB EX MEDIA / FEATURES / BENEFITS / SPECIFICATIONS

FEATURES AND BENEFITS

- Durable – non-operating shock $\approx 2000G$, operational temperature $0^{\circ}C - 50^{\circ}C$ $32^{\circ}F - 122^{\circ}F$
- Rugged – operational shock $\approx 350G$
- Rated at 10,000 cycles (inserts and removals)
- Meets military specifications for thermal shocks and conditions (soak time, quantity of shocks and temperature)
- Small Footprint – 127mm x 78.7mm x 17.8mm / 5" x 3.1" x 0.7" (pocket-sized)
- Lightweight – 155.9 g / 6.1oz.
- Hot-swappable - remove or insert the media at any time (camera dependent)
- Operational vibration (Grms) - 0.22
- Two piece design for portability
- Low power consumption (1.6w @ R/W)
- Preformatted FAT 32
- Compatible with PC, Mac® and Linux
- Stackable "Field Tough" storage case with U-Card included for easy labeling
- Easy to use and install

SPECIFICATIONS

MODEL NUMBER	iVDR 250 EX	iVDR 500 EX
CAPACITY	250GB	500GB

DIMENSIONS

HEIGHT (mm) / (inches)	17.8 / 0.7
WIDTH (mm) / (inches)	78.7 / 3.1
LENGTH (mm) / (inches)	127 / 5.0
WEIGHT (g) / (oz)	155.9 / 6.1

PERFORMANCE

DISK DATA TRANSFER RATE, MAXIMUM (Mbps)	830	1,175
DISK DATA TRANSFER RATE, SUSTAINED (Mbps)	480	
SPINDLE SPEED (rpm)	5,400	
BUFFER SIZE (MB)	8	
I/O DATA TRANSFER RATE, MAXIMUM (Mbps) (SATA)	2,400	
SEEK TIME, AVERAGE (msec)	14	
READ ERROR RATE (bits)	1 per 10^{14}	

POWER

READ / WRITE, TYPICAL (w)	1.6
STARTUP CURRENT 5V (amps max)	0.7
POWER-ON TO READY (sec)	<5

ENVIRONMENTAL

TEMPERATURE, AMBIENT OPERATING ($^{\circ}C$) / ($^{\circ}F$)	0 to 50 / 32 to 122
TEMPERATURE, AMBIENT NON-OPERATING ($^{\circ}C$) / ($^{\circ}F$)	-40 to 70 / -40 to 158
**THERMAL SHOCK ($^{\circ}C$) / ($^{\circ}F$)	-40 to 70 / -40 to 158
RELATIVE HUMIDITY, OPERATING AND NON-OPERATING	5% to 95%
ALTITUDE, OPERATING (m) / (ft)	-304.8 to 3048 / -1000 to 10,000
ALTITUDE, NON-OPERATING (m) / (ft)	-304.8 to 12192 / -1000 to 40,000

MECHANICAL RELIABILITY

DROP RESISTANCE (m) / (ft) (onto plywood over a concrete surface)	1.4 / 4.6
OPERATING SHOCK (g) (1 msec half sine linear)	50.8 / 2 ≥ 350
*NON-OPERATING SHOCK (g) (0.35 msec half sine linear)	$\geq 2,000$
OPERATING VIBRATION (grms) (5-500Hz, x,y and z axes, .0001 g2/Hz)	0.22
INSERTION / REMOVAL CYCLES	10,000

* z-axis, flat drop
** Thermal Shock - Military spec conditions

iVDR STANDARD ADAPTER / FEATURES / BENEFITS / SPECIFICATIONS

iVDR STANDARD ADAPTER FEATURES AND BENEFITS

- Removable Cartridge – Carry the drive in your pocket while leaving the adaptor connected to your computer or other iVDR device
- High speed USB 2.0 – (480 Mbps) and IEEE 1394b (FireWire 800) – (800Mbps) multi-interface
- Compact and lightweight – (33.0 mm x 88.9 mm x 134.6 mm) (1.3" x 3.5" x 5.3", 124.7 g / 4.7 oz)
- Universal AC Adaptor included if extra power is required
- Status LED
- Multi-interfaces for higher off-loading transfer speeds – Hi-Speed USB 2.0 / Firewire 800 (1394b)
- Comes complete with (1) USB 2.0 cable - type A to mini, (2) Firewire cables - 9 to 9 pin and 9 to 6 pin, and a Universal AC Adapter

SPECIFICATIONS

MODEL NUMBER	iVDR STANDARD ADAPTER
INTERFACE	HI-SPEED USB 2.0, FIREWIRE 800b
AUXILIARY POWER INPUT	5V, DC

DIMENSIONS

HEIGHT (mm) / (inches)	33.0 / 1.3
WIDTH (mm) / (inches)	88.9 / 3.5
LENGTH (mm) / (inches)	134.6 / 5.3
WEIGHT (g) / (oz)	124.7 / 4.7

PERFORMANCE

USB 2.0, MAXIMUM (Mbps)	480
FIREWIRE, MAXIMUM (Mbps)	800

POWER

READ / WRITE, TYPICAL (w)	3.8
STARTUP CURRENT 5V (amps max)	0.9
POWER-ON TO READY (sec)	5

ENVIRONMENTAL

TEMPERATURE, AMBIENT OPERATING ($^{\circ}C$)	0 TO 50 / 32 TO 122
TEMPERATURE, AMBIENT NON-OPERATING ($^{\circ}C$)	-40 TO 70 / -40 TO 158

MECHANICAL RELIABILITY

CARTRIDGE INSERTION / REMOVAL CYCLES	10,000
--------------------------------------	--------

Note: All specs may be subject to change

iVDR LINE UP

ITEM #	DESCRIPTION	CARTON QUANTITY
261388	iVDR VC102	1
261217	iVDR Standard Adapter	1
261527	iVDR EX 500GB Drive	1
261288	iVDR EX 250GB Drive	1

FOR MORE INFORMATION, VISIT OUR WEBSITE AT
WWW.MAXELL.COM
FOR TECHNICAL SUPPORT CALL 1.800.377.5887

MAXELL CORPORATION OF AMERICA

3 GARRET MOUNTAIN PLAZA, SUITE 300 - 3RD FLOOR,
WOODLAND PARK, NJ, 07424

MAXELL CANADA

237 ROMINA DRIVE, SUITE 200, CONCORD, ON L4K 4V3

MAXELL LATIN AMERICA

PLAZA BTESH, CALLE 50, PANAMA CITY, PANAMA

©2010 MAXELL CORPORATION OF AMERICA

PM-40004

