

Maxell iVDR-X (Xtreme) 250GB Field Tough Media

iVDR-X PRODUCT INTRODUCTION

The ultimate field tough media is here . . . iVDR-X. Now everybody can take advantage of portable disk-to-disk backups and restores. Have confidence using the smallest portable field tough media. Whether off loading a professional P2 camera, saving or editing files from a laptop on an airplane, at school, a business center, or internet cafe or library. You can have your desktop environment and latest files with you all on drop, shock and vibration resistant field tough media.

The arrival of next-generation field tough disk technology promises to solve many of the problems that individuals face with ordinary portable hard drives.

COMPACT, LIGHTWEIGHT AND RUGGED DESIGN

iVDR-X media is lightweight, weighing 5.8 oz and it is only 0.7" thick! It's small enough to fit in your shirt pocket. What makes the Maxell iVDR-X so unique and different from other removable hard disk drives is its rugged characteristics that can withstand severe shock and vibrations. While other external disk-based data storage solutions typically cannot withstand any significant drop, the patented shock-absorbent technology incorporated into the hot-swappable Maxell iVDR-X can resist shock up to 4.6 feet onto a tile floor providing superior shock protection for all applications where handling and mobility is required. Use the iVDR-X in a helicopter, on a construction site, onboard a ship, or in a police cruiser. With operating shock ratings of $\geq 350G$'s the iVDR-X is perfect for these rough mobile applications.



FLEXIBLE CAPACITIES AND POWER

Spinning at 5400 RPM with an expanded 8 MB buffer, the iVDR-X comes standard with a 250GB drive capacity. The iVDR-X is bus-powered by either a Hi-Speed USB 2.0 or 9 pin Firewire 800 port. Should you need extra power, the iVDR-X ships with an USB-5V cable and AC adaptor. Either can supply additional power.

Note 1: USB and Firewire bus power depends on the host's ability to supply ample current.

Note 2: Your Maxell iVDR-X adapter is shipped with a Hi-Speed USB 2.0 cable to ensure maximum data transfer performance when connected to a Hi-Speed USB 2.0 port. The cable will also work when connected to a standard USB port, but drive performance will be limited to USB 1.1 transfer rates.

FEATURES AND BENEFITS

- Durable – non-operating shock $\geq 2000G$, operational temperature up to 140° F
- Ruggedness – operational shock $\geq 350G$, rated at 10,000 cycles (inserts and removals)
- Small Footprint – 5" x 3.1" x 0.7" (pocket-sized)
- Lightweight – 5.8 oz.
- Hot-swappable – remove or insert the media at any time
- Low power consumption (0.22w @ standby, 2.6 – 2.85w @ R/W)
- Multi-interfaces for higher off-loading transfer speeds – Hi-Speed USB 2.0/FireWire 800 (1394b)
- Preformatted FAT 32
- Compatible with PC and Mac®
- Stackable "Field Tough" storage case with U-Card included for easy labeling
- Easy to use and install

WHAT DOES 250GB HOLD?

- Up to 19 hours of Digital Video (DV)
- Up to 110 hours of DVD quality video
- Up to 20 hours of HD video (MPEG-2)
- Up to 71,400 digital photos
- Up to 62,500 songs (MP3)
- Up to 6,250 songs (uncompressed CD quality)

APPLICATIONS

- Portable Field Production – Offload P2 and other Pro cameras
- Weddings and Events – Videographers
- Corporate and Industrial – Rough environments – in the field or in the office
- Education and Classroom Training – Rugged enough for the classroom or the lab
- Sports analysis – From the playing field to the locker room
- Military field work applications
- Mobile Medical
- Mobile Law Enforcement applications
- Mobile Forensics
- Mobile Game Stations
- Insurance Estimators
- Construction Site Planning
- On site graphic design and edits
- Carrying and securing important files and e-mail between work, home or the road
- Extended storage for Programmable Cable Set-top boxes
- Sharing and editing large files between PC and Mac
- Storing, backing up or transferring your digital music, videos and photos anywhere

ADAPTER FEATURES

- Carry the “Field Tough” media cartridge in your pocket while leaving the adaptor connected
- High speed USB 2.0 – (480Mbps) and IEEE 1394b (FireWire 800) – (800Mbps) multi-interface
- Compact and lightweight
- Optional USB-5V cable and AC Adapter additional included if extra power is required



BUS-POWERED

No need for an AC adapter. The iVDR-X powers on any standard USB or 9 pin FireWire 800 port.

FREE TECH SUPPORT

We stand behind our products with live toll-free, US based, 24/7/365 trilingual technical support.

Cartridge Specifications

General	
Model	iVDR-Xtreme Cartridge
Capacity	250 GB
Interface	iVDR
Dimensions	
Height (inches)	0.7
Width (inches)	3.1
Length (inches)	5.0
Weight (oz)	5.8
Performance	
Disk data transfer rate, maximum (Mbps)	830
Disk data transfer rate, sustained (Mbps)	482
Spindle speed (rpm)	5,400
Buffer size (MB)	8
I/O data transfer rate, maximum (MB/s) (SATA)	300
Seek time, average (msec)	14
Read error rate (bits)	1 per 10 ¹⁴
Power	
Read / Write, typical (W)	2.6 – 2.85
Standby, typical (W)	0.22
Power-on to Ready (sec)	3.4
Standby to Ready (sec)	3.2
Environmental	
Temperature, ambient operating (°C)	0 to 60
Temperature, ambient non-operating (°C)	-40 to 70
Temperature, gradient (°C per hour)	20 to 30
Relative Humidity, operating and non-operating	5% to 95%
Altitude, operating (ft)	-1000 to 10,000
Altitude, non-operating (ft)	-1000 to 40,000
Mechanical Reliability	
Operating shock (G) (2 msec half sine linear)	≥350
Non-operating shock (G) (0.5 msec half sine linear)	≥2,000
Drop resistance (ft) (tile over concrete surface)	4.6
Operating vibration (G) (swept sine @2oct/min, 5-500Hz, 0 to peak)	1.0
Insertion/removal cycles	10,000

Note: All specs may be subject to change



Docking Station Specifications

General	
Model	iVDR Universal Adaptor
Interface	Hi-Speed USB 2.0, Firewire 800b
Auxiliary power input	5v, DC
Dimensions	
Height (inches)	1.3
Width (inches)	3.5
Length (inches)	5.3
Weight (oz)	4.7
Performance	
USB 2.0, maximum (Mbps)	480
Firewire, maximum (Mbps)	800
Power	
Read / Write (W typical)	2.8 – 3.05
Standby (W typical)	0.42
Environmental	
Temperature, ambient operating (°C)	TBD
Temperature, ambient non-operating (°C)	TBD
Mechanical Reliability	
Cartridge insertion/removal cycles	10,000

Note: All specs may be subject to change