

IOMEGA® REV™ DRIVES AND DISKS

TECHNICAL SPECIFICATIONS



Revolutionary Removable Hard Disk Storage



FEATURES AT A GLANCE

- ▶ 35GB native capacity per removable disk
- ▶ 90GB* compression with included software
- ▶ Media data transfer rates of 12.7 to 25.4MB/sec (buffer to/from media)
- ▶ 13msec average seek
- ▶ Drive letter access
- ▶ Bootability
- ▶ 30-year shelf life for disk (estimated)
- ▶ 400,000 hour MTBF (estimated)
- ▶ Automatic sector reallocation
- ▶ Two-level enhanced error correction code (ECC)
- ▶ Adaptive power save control
- ▶ MMC-4 multi-media command set

- FAST & EFFICIENT** Back up and restore eight times faster than tape**; drag-and-drop files
- EXPANDABLE & EASY** Add capacity when you need it; no maintenance required
- DURABLE & SECURE** Virtually unlimited rewritability and password protection



SIMPLE STORAGE FOR A



COMPLICATED WORLD.™

The iomega® REV™ 35GB/90GB* drive is a revolutionary removable hard disk system which provides the speed, reliability, and ease-of-use of a hard drive with the portability and expandability of tape and optical media. While based on standard hard drive components, the removable iomega REV disk contains only the magnetic media and spindle hub and motor for greater durability – all the sensitive drive heads and electronics remain in the drive itself. Both the drive and disks are sealed by a unique shutter mechanism designed to keep the heads and media in a virtual “clean room” environment. Advanced air filtration, automatic head cleaning, and robust two-stage error correction are employed to ensure high data integrity and reliability.



www.iomega.com

PRODUCT COMPARISON



iomega REV drive DDS-4 Tape Travan Tape DVD+RW (8X)

Based on proven hard disk drive technology for maximum reliability and efficiency, iomega REV products are much more efficient and robust than traditional tape and optical solutions. With random access, hard drive transfer speed, and 35GB/90GB* capacities, iomega REV drives and disks are the best alternative for effective backup and portable storage needs.

	iomega REV drive	DDS-4 Tape	Travan Tape	DVD+RW (8X)
Max. Native Transfer Rate (MB/sec)	25	3	2	11
Media Capacity (GB) (Native/Compressed)	35/90*	20/40	20/40	4.7/NA
Media Durability (# of passes or rewrites)	1,000,000	2,000	10,000	1,000
Write Seek Time (ms)	13	40,000	38,000	500

PRODUCT SPECIFICATIONS

CAPACITY

Usable data bytes 35,002,122,240

CONFIGURATION

Bytes per sector 2,048
 User logical sectors 17,090,880
 Track density (nominal) 88,000 tracks/inch
 Linear density (max) 695,000 bits/inch
 Areal density (max) 61.16 Giga-Bits/square inch
 Number of heads 2
 Head type GMR
 Number of disks 1
 Substrate Type Smooth Glass disk
 Servo Embedded
 Zones 18
 Data recording method (coding) 48/50 Modified E²PRML

RELIABILITY (ESTIMATED)

Unrecoverable Data Error Rate (proj) 1 error in 10¹⁵ bits transferred
 Cartridge life 2,000 Insertion and Removal cycles
 Drive life 10,000 Insertion and Removal cycles
 Drive service life approx. 5 years
 Cartridge Shelf life >30 years
 Typical Insertion Force 1.5 kgf (3.3 lbf)

NATIVE DRIVE TRANSFER RATE

Burst (ATAPI) 100 MB/sec
 Burst (USB 2.0) 60 MB/sec
 Maximum data transfer rate OD 25.4 MB/sec
 Maximum data transfer rate ID 12.7 MB/sec

DEVICE TIMING

Seek Time
 Minimum (single track) 2.5 msec (read), 3.0 msec (write)
 Average 12 msec (read), 13 msec (write)
 Maximum 25 msec
 Latency (average rotational delay) 7.1 msec
 Spindle Speed 4200 rpm
 Start Time 12 sec
 Stop Time (including eject) 6 sec

TEMPERATURE AND TEMPERATURE GRADIENT

Ambient Operating Environment 0 to 45 degrees C. (32 to 113 deg. F.) Ext. unit
 0 to 60 degrees C. (32 to 140 deg. F.) Int. unit
 Ambient Non-Operating Environment -40 to 65 degrees C. (-40 to 149 degrees F.)
 Max Temperature Gradient 12 degrees C. per hour (22 degrees F. per hour)

HUMIDITY

Ambient Operating Humidity (Non-condensing) 8 to 90 % R.H.
 Ambient Non-Operating Humidity (Non-condensing) 5 to 95 % R.H.
 Max Wet Bulb Temperature - Operating 29 degrees C. (84 degrees F.)
 Max Wet Bulb Temperature - Non-Operating 40.0 degrees C. (104 degrees F.)
 Electro Static Discharge Up to 8 KV air discharge, or 4 KV contact

MECHANICAL SHOCK

Operating 60 g (2msec half sine)
 Non-Operating Disk 400 g (2msec half sine)
 Non-Operating Drive 200 g (2msec half sine)
 Typical cartridge drop (outside of case) up to 1.22 meters (48 inches) onto commercial grade carpet
 Cartridge drop (inside of case) up to 1.52 meters (60 inches) onto hard floor

MECHANICAL VIBRATION

Operating Reads/Writes 0.4 g (zero to peak) 5 to 20 Hz
 0.2 g (zero to peak) 20 to 300 Hz
 Sequential reads (Internal unit) 1.0 g (zero to peak) 5 to 300 Hz
 Non-Operating Disk 2.5 g (zero to peak) 5 to 500 Hz
 Non-Operating Drive 1.3 g (zero to peak) 5 to 27 Hz
 2.0 g (zero to peak) 27 to 60 Hz
 2.5 g (zero to peak) 60 to 500 Hz

PHYSICAL DIMENSIONS

Disk
 Height 10 mm
 Width 77 mm
 Length 75 mm
 Weight 73 grams
 Drive

	External	Internal
Height	36 mm	25.4 mm
Width	110 mm	101.4 mm
Length	156 mm	146 mm
Weight	392 grams	424 grams

POWER CHARACTERISTICS

Drive Supply Voltage 5.0 V

	Current Draw	Power Consumption
Seek (Peak)	1.18 A	5.9 W
Startup (Peak)	1.15 A	5.8 W
Eject (Peak)	0.92 A	4.6 W
Continuous Writes (RMS)	0.92 A	4.6 W
Continuous Reads (RMS)	0.89 A	4.5 W
Random Read-Writes (RMS)	0.89 A	4.5 W
Idle (RMS)	0.60 A	3.0 W

POWER SUPPLY

The circuitry for the drive derives power from either a 5.0 V power supply or a host powered interface. Power supply can provide 5.0 +/- .25 V D.C. and is capable of delivering up to 1.2 amp of continuous current.

ALTITUDE

Operating -300 to 3048 meters (10,000 ft)
 Non-Operating -300 to 12,192 meters (40,000 ft)

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*Compressed capacity assuming 2.6:1 data compression with iomega Automatic Backup Pro software. This capacity may vary since compression is data and software dependent.
 **Compared to DDS-4