

Western Digital EIDE Hard Drive

WD Caviar®

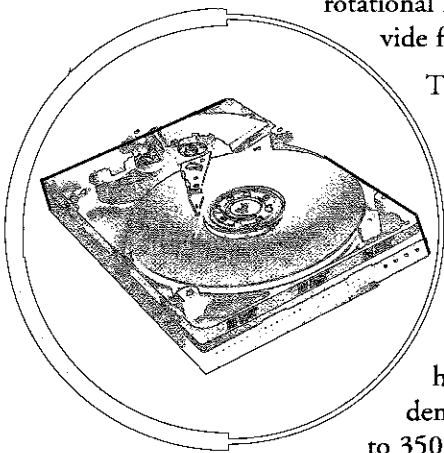
Western Digital's WD Caviar® Enhanced IDE (EIDE) hard drives are high-performance solutions designed to meet the requirements of today's most powerful systems, from home and business PC's to workstations and servers. Built upon Western Digital's successful design, the newest additions to the WD Caviar family add new head and read channel technology, enhanced electronics, and increased areal density.

High-speed host data transfers, advanced caching, increased rotational speeds, and low mechanical latency combine to give WD Caviar drives the level of performance demanded by today's most advanced systems. All drives in this series support Mode 4 PIO and Mode 2 DMA transfers. Some also offer Ultra DMA/33, a high-speed host data transfer feature that transfers data at 33.3 MB/s—double the current burst transfer rate. This results in maximum disk performance under PCI local bus environments.

WD Caviar drives deliver rotational speeds up to 5400 RPM and include CacheFlow4 or CacheFlow5—providing advanced, adaptive read and write caching capabilities that complement the advanced caching capabilities of today's major operating systems. An average read seek time of 11 ms and rotational latency speeds as low as 5.5 ms combine to provide fast mechanical access.

These WD Caviar drives are ideal storage solutions for systems running Windows 95, Windows 3.x, Windows NT, OS/2 Warp, Novell NetWare, or Unix operating systems on 486, Pentium, Pentium Pro, Pentium II, PowerPC or RISC-based processors.

Western Digital's award-winning WD Caviar drives are designed and manufactured to the highest standards of quality and reliability. This is demonstrated by their three-year warranty, 300,000 to 350,000 hours of Mean Time Between Failure, and guaranteed compatibility.



**WD CAVIAR
SERIES**

INTERFACE

EIDE

WIDTH/HEIGHT

3.5-inch/1-inch

CAPACITY

1.2 to 5.1 GB

FEATURES

AC11200

TO

AC35100

- **CacheFlow4 or CacheFlow5™** - Increases performance by adapting read and write operations on-the-fly, and works in conjunction with the advanced disk caching capabilities of today's major operating systems.
- **High Speed Host Transfers** - Enables maximum disk performance in local bus environments. All drives support Mode 4 PIO and Mode 2 multi-word DMA transfers. Some drives support Ultra DMA/33 high-speed host transfers.
- **S.M.A.R.T.™** - Assists the user in preventing possible system down time by warning of the impending risk of data loss.
- **Logical Block Addressing (LBA)** - An alternative addressing methodology of identifying a given location on an EIDE drive that permits disk sizes greater than 528 MB.
- **Low Power Consumption** - Saves energy, money, and the environment.
- **Exceptional Quality** - Guaranteed compatibility and automatic defect management allows easy installation. A three-year warranty and 300,000 to 350,000 MTBF means years of trouble-free operation.

 **Western
Digital**

Western Digital EIDE Hard Drive

WD Caviar® Series

WD Caviar Drive Specifications

| | 1.2 GB | 1.6 GB | 2.0 GB | 2.1 GB | 2.5 GB |
|--|-----------|-----------|-----------|-----------|-----------|
| Physical Specifications | | | | | |
| Interface | EIDE | EIDE | EIDE | EIDE | EIDE |
| Form Factor | 3.5-inch | 3.5-inch | 3.5-inch | 3.5-inch | 3.5-inch |
| Formatted Capacity ¹ | 1281.9 MB | 1624.6 MB | 2000.3 MB | 2111.8 MB | 2559.8 MB |
| Number of Disks / Heads | 1 / 2 | 2 / 4 | 2 / 3 | 2 / 4 | 2 / 4 |
| Bytes per Sector (STD) | 512 | 512 | 512 | 512 | 512 |
| User Sectors per Drive | 2,503,872 | 3,173,184 | 3,907,008 | 4,124,736 | 4,999,680 |
| Model Number | WDAC11200 | WDAC21600 | WDAC22000 | WDAC22100 | WDAC22500 |
| Performance Specifications | | | | | |
| Average Read Seek ² | 11 ms | sub 12 ms | 11 ms | sub 12 ms | 11 ms |
| Average Latency | 5.8 ms | 5.76 ms | 5.8 ms | 5.76 ms | 5.8 ms |
| Rotational Speed | 5200 RPM | 5200 RPM | 5200 RPM | 5200 RPM | 5200 RPM |
| Data Transfer Rate (Buffer to Host) | | | | | |
| - Mode 4 PIO ³ | 16.6 MB/s | 16.6 MB/s | 16.6 MB/s | 16.6 MB/s | 16.6 MB/s |
| - Mode 2 DMA ⁴ | 16.6 MB/s | 16.6 MB/s | 16.6 MB/s | 16.6 MB/s | 16.6 MB/s |
| Buffer | 256 KB | 128 KB | 256 KB | 128 KB | 256 KB |
| MTBF (POH) | 350,000 | 300,000 | 350,000 | 300,000 | 350,000 |
| Warranty | 3 years | 3 years | 3 years | 3 years | 3 years |

| | 3.1 GB | 3.2 GB | 4.0 GB | 4.3 GB ⁵ | 5.1 GB ⁵ |
|--|-----------|-----------|-----------|---------------------|---------------------|
| Physical Specifications | | | | | |
| Interface | EIDE | EIDE | EIDE | EIDE | EIDE |
| Form Factor | 3.5-inch | 3.5-inch | 3.5-inch | 3.5-inch | 3.5-inch |
| Formatted Capacity ¹ | 3166.7 MB | 3249.3 MB | 4000.7 MB | 4304.2 MB | 5163.5 MB |
| Number of Disks / Heads | 3 / 6 | 3 / 5 | 3 / 6 | 3 / 5 or 6 | 3 / 6 |
| Bytes per Sector (STD) | 512 | 512 | 512 | 512 | 512 |
| User Sectors per Drive | 6,185,088 | 6,346,368 | 7,814,016 | 8,406,720 | 10,085,040 |
| Model Number | WDAC33100 | WDAC33200 | WDAC34000 | WDAC34300 | WDAC35100 |
| Performance Specifications | | | | | |
| Average Read Seek ² | sub 12 ms | 11 ms | 11 ms | 11 ms | 11 ms |
| Average Latency | 5.76 ms | 5.8 ms | 5.8 ms | 5.5 ms | 5.5 ms |
| Rotational Speed | 5200 RPM | 5200 RPM | 5200 RPM | 5400 RPM | 5400 RPM |
| Data Transfer Rate (Buffer to Host) | | | | | |
| - Mode 4 PIO ³ | 16.6 MB/s | 16.6 MB/s | 16.6 MB/s | 16.6 MB/s | 16.6 MB/s |
| - Mode 2 DMA ⁴ | 16.6 MB/s | 16.6 MB/s | 16.6 MB/s | 16.6 MB/s | 16.6 MB/s |
| - Mode 2 Ultra DMA | | | | 33.3 MB/s | 33.3 MB/s |
| Buffer | 128 KB | 256 KB | 256 KB | 256 KB | 256 KB |
| MTBF (POH) | 300,000 | 350,000 | 350,000 | 350,000 | 350,000 |
| Warranty | 3 years | 3 years | 3 years | 3 years | 3 years |

¹ Western Digital defines a megabyte (MB) as 1,000,000 bytes, and a gigabyte (GB) as 1,000,000,000 bytes.

² Average Read Seek time is the total time required to seek between all possible ordered pairs of track addresses divided by the total number of these ordered pairs.

³ Maximum PIO Burst rate is specified at 16.6 MB/s using the IORDY signal.

⁴ Maximum DMA and multi-word DMA burst rate is specified using the DMARQ and DMACK signals.

⁵ Pending Microsoft Windows 95 certification.



For service and literature:
 714.932.4900 USA
 714.932.5000 Outside USA
 714.932.4300 DocuFAX
 www.wdc.com Internet

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