



QuickView® 320

ATA HARD DRIVE

80GB | 160GB | 250GB | 320GB

HIGHLIGHTS

- Up to 320 hours of standard-definition video recording*
- Mainstream capacities up to 320GB
- MHX cache for high-definition streaming
- Standard ATA-7 T13 streaming commands
- QuickView streaming commands
- Quiet Drive™ technology

FEATURES

- Leading technology supports most popular capacity points
- QuickView feature set for best performance managing multiple A/V streams
- Designed for lower power consumption and lower acoustics
- Latest Serial ATA interface with 3.0Gb/s data transfer speed
- Ultra ATA data transfer speeds up to 133MB/sec
- Engineered for robustness and reliability
- RoHS compliant

DESIGNED FOR

- DVD/HDD recorders
- Digital video recorders
- PVR/DVR combo
- Set-top box recorders
- Home media centers

Reliability and leading A/V digital recording features

The QuickView 320 hard drive is the latest Maxtor hard drive designed and developed with optimized features for digital A/V recording. Shock resistance, guaranteed A/V throughput, low power consumption, quiet operation and a focus on reliability make the QuickView 320 hard drive an ideal choice for consumer electronic applications. QuickView hard drives offer audio-visual performance and advanced features that enhance the digital entertainment experience.

Designed for the STB / DVR Environment

The hard drive has been engineered to combine performance with low power consumption and acoustics. The design improves box reliability by minimizing additional heat output, and quiet operation enhances viewer experience.

Delivering reliability

The QuickView 320 hard drive provides maximized reliability. The ramp load feature parks heads when not in use to avoid data loss due to shock and mishandling. Maxtor's leading head technology allows a 0 to 70°C operating temperature range¹ for increased margin in the demanding environment of PVR and media systems.

The hard drive offers advanced thermal monitoring and logging using HDD SMART technology.

The Maxtor developed Shock Protection System™ and Data Protection System™ provides enhanced protection against operating and non operating shock.

QuickView Features

Maxtor's QuickView command set, MHX dual processor and stream detection technology maximize the efficiency of drive and data management to optimize performance.

Interface

The QuickView 320 hard drive is available with a choice of 3.0Gb/s Serial ATA or parallel ATA/133 interfaces. Available SATA II features include Native Command Queuing², which intelligently reorders read and write commands to optimize drive efficiency and performance.

RoHS Compliant

The QuickView 320 hard drive complies with the EU directive for Restriction of Hazardous Substances (RoHS)³.

¹ Drive base casting temperature

² Native Command Queuing is not available on drives with a parallel ATA interface

³ Directive 2002/95/EC of the European Parliament and of the Council of 27 January, 2003

ORDER INFORMATION

Capacity	80GB	160GB	250GB	300GB	320GB
All products are RoHS Compliant 					
Model Serial ATA (3.0Gb/s) 8MB buffer	3G080E0	3G160E0	3G250E0	3G300E0	3G320E0
Model ATA /133 2MB buffer	3G080L0	—	—	—	—
Model ATA/133 8MB buffer	—	3G160M0	3G250M0	3G300M0	3G320M0

SPECIFICATIONS

Performance Specifications

Rotational Speed	7200 RPM
Buffer Size	
80GB to 320GB SATA	8MB
80GB ATA/133	2MB
External Data Transfer Rate (max)	
Serial ATA (Gb/s)	1.5 or 3.0
Parallel ATA (MB/s)	133
Internal Data Transfer Rate	tbd
Typical Seek time	<9ms
Average latency (ms)	4.17
SATA II Features including Native Command Queuing	

Reliability Specifications

Load/Unload cycles (min)	300k
Component Design Life (min)	5 years

Acoustics

Idle (typical: 1 disk, 2 disk)	2.3, 2.4
Quiet Seek (typical: 1 disk, 2 disk)	2.4, 2.7
Normal Seek (typical: 1 disk, 2 disk)	2.9, 3.1

Environmental Limits

Temperature

Operating (°C)	0 to 70
Non-operating (°C)	-40 to 71

Shock

Operating Mechanical Shock 2 ms (G)	65
Non-operating Mechanical Shock 2ms (G)	350

Power

Start up mode (peak W)	<25
Sequential Read/Write (w)	<9
Idle Mode (W)	<7.5
Standby Mode (W)	<1

Physical Dimensions

Width (max mm)	101.6
Length (typical mm)	147
Height (max mm)	26.1
Weight max (lb)	tbd



For support or information, call us at 1-800-2Maxtor or visit us at www.maxtor.com

All Maxtor products are backed by our leading service and support staff.

To speak with a Maxtor product support representative in the U.S. and Canada, call 1-800-2MAXTOR, Mon.-Fri. from 7 a.m. to 4 p.m. (PST).

In Europe, call +353 1 204 1111 Mon.-Thur. from 8:30 a.m. to 5 p.m. (GMT) and Fri. 8:30 a.m. to 4 p.m. (GMT).

In Australia, call +61 2 9369 3662. In Japan, call 005316-53616, and in Singapore, call 65-6852-0220 or 1-800-481-6788.

* Jon Peddie Research

For purposes of measuring drive storage capacity, a gigabyte (GB) means 1,000,000,000 bytes. Total accessible capacity varies depending on operating environment. Seek times are at nominal conditions and include settling. Specifications subject to change without notice.

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