

## Product Overview

# Lyrion

**60-GB, single-platter, 5-mm-thin drive**

**Portability • Reliability • Capacity •**  
**Enabling the portable digital media experience**

### Features and Benefits

- Industry-leading capacity enabled by perpendicular recording technology
  - Single platter, 60 GB provides a breakthrough in capacity and value for handheld audio and video devices.
- Best-in-class power management features deliver longer battery life for handheld devices.
  - 3600-RPM motor provides the right balance of performance and power savings.
  - Power management algorithms provide optimal use of battery life.

### Key Specifications

- 60-GB capacity with only a 5-mm thickness
- Under 2-second startup time
- Lowest startup power current of 350 mA
- 0°C to 60°C operating temperature range
- 2.2 bels operating acoustics—below human hearing range

### Applications

Environments where the best combination of portability, reliability, and capacity are paramount, including:

- Personal media players
- Portable navigation systems
- Digital video cameras
- Portable storage devices



### The Seagate Advantage

Consumers are driving a revolution in the way they access, store and enjoy content. Seagate® calls it the on-demand world, where consumers can choose to experience content when they want, where they want and on the device they choose. The growth of services that allow audio and video to be stored on mobile devices, and the devices on which this content will be stored, make increased storage imperative in the on-demand world.

The Lyrion™ drive from Seagate delivers an industry-leading 60 GB of storage in a compact 1.8-inch HDD. The culmination of decades in customizing hard drive technology for new applications, the Lyrion drive combines the best features for portable media players:

- Seagate RunOn™ technology enables smooth audio and video streaming even under high-motion conditions.
- Sophisticated power management technologies help extend battery performance, even for demanding video streaming.

Seagate Design Service Centers provide testing and integration services for handheld devices. Utilizing world-class Seagate labs, handheld device manufacturers can bring products to market with optimal reliability and performance, secure in the knowledge that they are backed by a standard Seagate limited warranty.

Specifications	
Capacity (GB)	60
Interface	IDE
Cache (MB)	2
Acoustics, Operating Typical (bels)	2.2
Operating Robustness (Gs)	1500
Time to Ready (sec)	1.8

### New Customer Requirements

Today's media consumer understands the power of taking entertainment anywhere and everywhere. A subway train can become a home theater. Weeks-old magazines are replaced by up-to-the-minute news clips as lunchtime entertainment. Airplane entertainment options are limited only by the consumer's tastes, not by the movies on board. The portable media powerhouse is being enabled by legal media options that free the consumer to customize the entertainment experience.

Many devices are converging audio-video functions with other core applications. For example, portable navigation systems are using HDD technology to include media playback with systems that incorporate 3D graphics, millions of points of interest and even photographs of the destination. Digital video cameras are replacing fragile tape with direct-to-disk recording that includes automatic time-code and GPS data. And a new breed of handheld computer based on the Microsoft Origami platform brings the power of multimedia and productivity applications to pocket-sized devices.

### Enabling New Opportunities

Handheld video players are expected to continue their increase in sales. Consumer Electronics Association forecasts that the mobile video and navigation market will have grown to over \$1B in sales in the U.S. by the end of 2006.

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