

## Product Overview

# Pipeline HD™

**The industry's leading combination of video streaming and low-power performance**

### Key Features and Benefits

- Eco-friendly power savings enable the most energy-efficient and cost-effective system designs.
- Industry-leading reliability of 0.55% AFR in an always-on environment supports longevity expectations of consumer and commercial video applications.
- 75°C operating temperature capability for improved system reliability
- Video streaming optimized to support at least 10 simultaneous high-definition video streams for multi-room DVR applications
- Seagate SoftSonic™ motor technology enables years of ultra-quiet, worry-free operation with acoustics performance as low as 1.9 bels.
- Up to 1-TB capacity enabling up to 200 hours of HD storage or 1000 hours of SD television recording
- Sweet-spot capacities enable premium television services such as video on demand, high-definition storage and multi-room streaming for DVRs and media centers
- Seagate Think Green™ sustainability goes beyond green with improved reliability, low power consumption, leading recycling programs, RoHS compliance, PVC free, halogen free and brominated flame retardant free.

### Best-Fit Applications

- Consumer DVR and media center applications
- Embedded surveillance DVR (SDVR) systems
- Home theater PCs, karaoke and audio jukeboxes
- Cable, satellite and IPTV set-top boxes



# Pipeline HD™

The industry's leading combination of video streaming and low-power performance



Seagate® Pipeline HD hard drives provide manufacturers and system designers with the leading combination of video streaming and low-power performance. Ideal for consumer DVRs, media centers and even commercial video surveillance recording applications, Pipeline HD drives offer comprehensive value encompassing both practical performance considerations as well as having an eco-friendly footprint.

## Think Green Strategies

Pipeline HD drives carry Seagate Think Green certification which provides consumers and system designers assurance they have selected a storage solution with leading environmental stewardship performance. With the lowest overall power consumption performance of any drive in its class, Pipeline HD drives save energy and help enable systems to achieve today's tough power consumption initiatives like ENERGY STAR. In addition, Pipeline HD drives lead in overall compliance to important environmental issues, including:

- RoHS compliance
- PVC-free compliance
- Low-halogen compliance
- Pipeline HD drives are 75 percent recyclable, and 50 percent of the materials for production come from recycled sources.

## And Beyond Green

In addition to being kind to the environment, Pipeline HD drives provide system designers with uncompromising performance for today's video streaming applications. Pipeline HD drives spin at a unique speed of 5900 RPM. This was carefully tuned by Seagate engineers to balance performance in video delivery, achieve near-silent operation and deliver leading low-power performance. Pipeline HD drives can support at least 10 simultaneous high-definition (20 Mbps) video streams, enough to support emerging

applications such as multi-room DVR. Translated to video surveillance applications, Pipeline HD drives can easily support 16 channels of high-quality video common in embedded video surveillance DVRs. Combine this performance with bedroom-quiet acoustics, an always on, 24x7 workload profile, and a leading predicted failure rate of only 0.55 percent AFR, and it's easy to see why Pipeline HD drives have become the choice of so many A/V system designers and manufacturers.

## Expert Support

With more experience in the A/V storage market than any other hard drive company and a skilled engineering staff available worldwide, Seagate understands the needs of our customers when it comes to integration and testing to achieve fast time to market. Seagate technical support is unmatched and should be an important consideration when selecting a hard drive for A/V applications. Our integration application engineering support is enhanced with services and consultation for chassis and drive mounting, as well as system evaluation for performance and reliability.

## Compatibility

Pipeline HD drives are compatible with SATA interface chipsets, the industry standard for high-definition systems, and are tested with a range of A/V solutions, operating systems and middleware combinations.

Specifications	
Capacity	1 TB, 500 GB, 320 GB, 250 GB, 160 GB
Interface	SATA 3Gb/s NCQ
Simultaneous Streams	10 (20 Mbps)
Idle Power (W)	3.0 (500 GB or less)
Operating Power (W)	3.4 (500 GB or less)
Acoustics, Typical/Max (bels)	1.9/2.0 (500 GB or less)
Operating Temperature (°C)	0 to 70 (75 at drive case)
Annualized Failure Rate (AFR)	As low as 0.55%

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