

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 the longevity expectations of consumer and commercial video applications
- 75°C operating temperature capability for improved system reliability
- Video streaming optimised 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 acoustic performance as low as 1.9 bels
- Up to 1-TB capacity enabling up to 200 hours of HD storage or 1,000 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 centres
- Seagate Think Green™ sustainability goes beyond green with improved reliability, low power consumption, leading recycling programmes, RoHS compliance, PVC-free, halogen-free and brominated flame retardant-free

Best-fit Applications

- Consumer DVR and media centre applications
- Embedded surveillance DVR (SDVR) systems
- Home cinema 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 centres 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 that provides consumers and system designers with the assurance that 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 such as ENERGY STAR. In addition, Pipeline HD drives lead in overall compliance with important environmental issues, including:

- RoHS compliance
- PVC-free compliance
- Low-halogen compliance
- Pipeline HD drives are 75 per cent recyclable, and 50 per cent of the production materials 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 5,900 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 the 16 channels of high-quality video that are 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 per cent AFR, and it is easy to see why Pipeline HD drives have become the drives of choice for 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 a 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 3-Gb/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)
Annualised Failure Rate (AFR)	As low as 0.55%

www.seagate.com

Toll free: 00 8004 SEAGATE (732 4283)

(non toll free: 001 405 324 4714)

AMERICAS Seagate Technology LLC 920 Disc Drive, Scotts Valley, California 95066, United States, +1 831 438 6550
ASIA/PACIFIC Seagate Singapore International Headquarters Pte. Ltd. 7000 Ang Mo Kio Avenue 5, Singapore 569877, +65 6485 3888
EUROPE, MIDDLE EAST AND AFRICA Seagate Technology SAS 130-136, rue de Sully, 92773 Boulogne-Billancourt Cedex, France, +33 1 41 86 10 00

Copyright © 2009 Seagate Technology LLC. All rights reserved. Printed in USA. Seagate, Seagate Technology and the Wave logo are registered trademarks of Seagate Technology LLC in the United States and/or other countries. Pipeline HD, SoftSonic and Think Green are either trademarks or registered trademarks of Seagate Technology LLC or one of its affiliated companies in the United States and/or other countries. All other trademarks or registered trademarks are the property of their respective owners. When referring to hard drive capacity, one gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes. Your computer operating system may use a different standard of measurement and report a lower capacity. In addition, some of the listed capacity is used for formatting and other functions, and thus will not be available for data storage. Quantitative usage examples for various applications are for illustrative purposes. Actual quantities will vary based on various factors, including file size, file format, features and application software. Seagate reserves the right to change, without notice, product offerings or specifications. PO0089.1-0906GB, June 2009