

Video 2.5 HDD

Data Sheet

Reliable. Quiet. Low Power.

- Purpose-built 2.5-inch drive tuned for video streaming, 24x7 operation and low power consumption¹
- Small form factor—1/6 the size of 3.5-inch solutions—allows system cost reduction, operational power savings and fanless design while supporting flexibility in a sleeker industrial system design.
- Eco-friendly power consumption enables energy-efficient, always-on systems with up to 55% in power savings in comparison to 3.5-inch solutions.
- Proven Seagate reliability of 0.55% AFR supports longevity in demanding consumer electronic environments.
- Designed for cool, quiet, worry-free operation
- Media streaming optimized for smooth content delivery of up to 12 HD streams

Best-Fit Applications

- DVR and media center applications
- Home theater PCs
- Karaoke and audio jukeboxes
- Cable, satellite and IPTV set-top boxes
- In-camera or surveillance systems

¹ Seagate® Video 2.5 HDD was previously known as the Pipeline HD® Mini hard drive.





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| Specifications | 500GB ¹ | 320GB ¹ |
|---|--------------------|--------------------|
| Model Number | ST500VT000 | ST320VT000 |
| Interface Options | SATA 6Gb/s | SATA 6Gb/s |
| Performance | | |
| Cache, Multisegmented (MB) | 16 | 16 |
| Simultaneous HDTV Streams Supported (Assumes 20Mb host buffer per stream) | 12 | 12 |
| Power-On to Ready (typical, sec) | 3.0 | 3.0 |
| Standby to Ready (typical, sec) | 2.5 | 2.5 |
| Maximum Sustained Data Transfer Rate (MB/s) | 100 | 100 |
| Voltage | | |
| Voltage Tolerance (including noise) | 5V ± 5% | 5V ± 5% |
| Reliability | | |
| Nonrecoverable Read Errors per Bits Read | 1 sector per 10E14 | 1 sector per 10E14 |
| Annualized Failure Rate (AFR) | 0.55% | 0.55% |
| Load/Unload Cycles (software/hardware-controlled power cycles) | 20,000 600,000 | 20,000 600,000 |
| Warranty, Limited (years) | 3 | 3 |
| Power Management | | |
| Startup Current (5V, A max) | 1.0 | 1.0 |
| Operating Seeks (W) | 1.5 | 1.5 |
| Idle Average (W) | 0.66 | 0.66 |
| Standby/Sleep Mode (typical, W) | 0.18 | 0.18 |
| Environmental | | |
| Temperature (°C) | | |
| Operating (drive case max) | 60 | 60 |
| Nonoperating (drive case min) | 0 | 0 |
| Nonoperating (ambient) | -40 to 70 | -40 to 70 |
| Temperature Gradient, Operating/Nonoperating (°C per hour max) | 20/35 | 20/35 |
| Relative Humidity, Operating/Nonoperating (non-condensing, %) | 5 to 95 | 5 to 95 |
| Wet Bulb Temperature, Operating/Nonoperating (°C max) | 37.7/40.0 | 37.7/40.0 |
| Shock | | |
| Operating: 2ms (max, Gs) | 400 | 400 |
| Nonoperating: 1ms (max, Gs) | 1000 | 1000 |
| Vibration, Operating | | |
| 5Hz to 200Hz (Gs, max displacement applies below 10Hz) | 2.0 | 2.0 |
| 200Hz to 500Hz (Gs, 0 to peak) | 1.0 | 1.0 |
| Vibration, Nonoperating | | |
| 5Hz to 500Hz (Gs, max displacement applies below 22Hz) | 5.0 | 5.0 |
| Acoustics | | |
| PVR Profile (typical/max, bels) | 2.2/2.4 | 2.2/2.4 |
| Physical | | |
| Height (mm/in) ² | 7.0/0.276 | 7.0/0.276 |
| Width (mm/in) ² | 70.1/2.76 | 70.1/2.76 |
| Depth (mm/in) ² | 100.55/3.959 | 100.55/3.959 |
| Weight (g/lb, max) | 95/0.209 | 95/0.209 |
| Carton Unit Quantity | 50 | 50 |
| Cartons per Pallet | 60 | 60 |
| Cartons per Layer | 10 | 10 |

¹ One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.

² These base deck dimensions conform to the Small Form Factor Standard (SFF-8203) found at www.sffcommittee.org. For connector-related dimensions, see SFF-8223.

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