



SKYHAWK

SURVEILLANCE

Datasheet

Standard models

ST1000LV000

2.0 Drive Specifications

Unless otherwise noted, all specifications are measured under ambient conditions, at 25°C, and nominal power. For convenience, the phrases *the drive* and *this drive* are used throughout this manual to indicate the following drive models:

The specification summaries listed in the following tables are for quick reference. For details on specification measurement or definition, refer to the appropriate section of this manual.

Table 1 Drive Specifications Summary

Drive Specification	ST2000LV000	ST1000LV000
Formatted capacity ⁽¹⁾	2TB	1TB
Guaranteed sectors	3,907,029,168	1,953,525,168
Heads	4	2
Disks	2	1
Bytes per sector	512 (logical) / 4096 (physical)	
Recording density	2276 Kb/in	
Track density	580 Ktracks/in avg	
Areal density	1320 Gb/in ² avg	
Spindle speed	5400 RPM	
Maximum sustained data rate, OD read	140 MB/s	
Interface	SATA 6Gb/s	
ATA data-transfer modes supported	PIO modes 0–4 Multiword DMA modes 0–2 Ultra DMA modes 0–6	
Cache buffer	128 MB	
Height (mm/in)	7.0 (± 0.2) / 0.276 (± 008)	
Width (mm/in)	69.85 (± 0.25) / 2.750 (± 0.010)	
Length (mm/in)	100.35 (+0.20/-0.25) / 3.951 (+0.008/-0.010)	
Weight (g/lb) max	90 / 0.198	
Average latency	5.6 ms	
Startup current, Max (+5V)	1.0 A	
Voltage tolerance (including noise)	5V ± 5%	
Non-Operating (Ambient °C)	–40° to 70°	
Operating temperature *	0° to 60°†	
Temperature gradient	20°C per hour max (operating) 35°C per hour max (non-operating)	
Relative humidity	5% to 95% (operating) 5% to 95% (non-operating)	
Relative humidity gradient (max)	30% per hour	
Wet bulb temperature	37.7°C max (operating) 40.0°C max (non-operating)	
Altitude, operating	–304.8 m to 3048 m (–1000 ft to 10,000+ ft)	
Altitude, non-operating (below mean sea level, max)	–304.8 m to 12,192 m (–1000 ft to 40,000+ ft)	
Operational Shock	400 Gs at 2 ms max	

Table 1 Drive Specifications Summary (continued)

Drive Specification	ST2000LV000	ST1000LV000
Non-Operational Shock	1000 Gs at 1 ms max	
Linear Operating Vibration	5 - 200Hz @ 2.4 Grms ref	
Rotational Operating Vibration	10 - 500Hz @ 15 rad/s ²	
Vibration, non-operating	5-500 Hz: 5.0 Gs	
Non-recoverable read errors	1 per 10 ¹⁴ bits read	
Warranty	To determine the warranty for a specific drive, use a web browser to access the following web page: http://www.seagate.com/support/warranty-and-replacements/ . From this page, click on the "Is my Drive under Warranty" link. The following are required to be provided: the drive serial number, model number (or part number) and country of purchase. The system will display the warranty information for the drive.	
Reliability	24x7 surveillance application	
Supports Hotplug operation per the Serial ATA Revision 3.2 specification	Yes	

- 1. One GB equals one billion bytes when referring to hard drive capacity. Accessible capacity may vary depending on operating environment and formatting.
- † Seagate does not recommend operating at sustained case temperatures above 60°C. Operating at higher temperatures will reduce useful life of the product.
- * The operating case temperature is 0 to 70°C (32 to 158°F).

Note	If the drive is powered-off before issuing flush cache command, in some instances, the end user data in the DRAM cache might not be committed to the disk.
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2.1 Formatted Capacity

Model	Formatted Capacity ⁽¹⁾	Guaranteed Sectors	Bytes per Sector
2TB model	2000 GB	3,907,029,168	512 (logical) / 4096 (physical)
1TB model	1000 GB	1,953,525,168	

- 1. One GB equals one billion bytes when referring to hard drive capacity. Accessible capacity may vary depending on operating environment and formatting.



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