



SKYHAWK

SURVEILLANCE



2.5 HDD DATA SHEET

Smart. Safe. Secure.

Seagate Surveillance-Optimized Storage



Leveraging Seagate's 10-year experience in designing drives specifically for surveillance storage, the slimmest first-to-market 2.5" SkyHawk™ with up to 2TB capacity, is built for mobility and small form factor systems.



Best-Fit Applications

- Transportation DVRs/NVRs
- Embedded Surveillance DVRs (SDVR)
- Small Form Factor Surveillance DVRs/NVRs

Key Advantages

ImagePerfect™ firmware supports 24×7 surveillance-optimized workloads¹ tuned to record video majority of the time, and supports more higher resolution cameras than traditional 2.5" drives.

Workload rating of 90TB/Y allows SkyHawk to perform reliably in write-intensive surveillance environments – over 1.5x better workload rating than traditional mobile drives.

IntelliIRV™ technology allows drives to sense external vibrations in mobile environments and intelligently use the shock and positions sensors to provide uncompromised performance under harsher conditions.

Highest Capacity, Up to 2TB, or 400+ hours of HD video storage provides ample storage space for continued video recording in small form factor and mobile surveillance environments without the need to replace cartridges often.

Superior Reliability backed by 3-year limited warranty², which represents an improved total cost of ownership (TCO) with reduced maintenance costs.

Lower power consumption, especially over bigger 3.5" drives, means a reduction in heat emissions, which improves reliability in surveillance solutions.

¹ SkyHawk surveillance drives are designed for always-on low transaction workloads (20% duty cycle) of 90TB/year. For higher transaction workloads, see Seagate's enterprise-class drive offerings.

² Skyhawk surveillance drives are designed to operate under ambient operating temperatures of 0-60 deg and normal environments, usage of drives in higher temperature or other extreme environmental conditions will reduce useful life



Specifications	2TB ¹	1TB ¹
Model Numbers	ST2000LV000	ST1000LV000
Bytes per Sector (logical/physical)	512/4096	512/4096
Features and Performance		
Interface	SATA 6 Gb/s	SATA 6 Gb/s
Data Transfer Rate (MB/s)	Up to 140	Up to 140
Cache (MB)	128	128
Camera supported	Up to 8 HD	Up to 8 HD
Reliability/Data Integrity		
Load/Unload Cycles	600,000	600,000
Head-Rest Method	QuietStep™ Ramp Load	QuietStep Ramp Load
Nonrecoverable Read Errors per Bits Read, Max	1 per 10E14	1 per 10E14
Power-On Hours per year	8760	8760
Workload Rate Limit (WRL)	90	90
Limited Warranty (years) ²	3	3
Power Management		
Startup Current (+5V, A)	1.0	1.0
Read/Write Power, Average (W)	1.7/1.8	1.6/1.7
Idle Power, Average (W)	0.5	0.45
Environmental		
Temperature, Operating (°C) ⁴	0 to 60	0 to 60
Temperature, Nonoperating (°C)	-40 to 70	-40 to 70
Shock, Operating: 2ms (Gs)	400	400
Shock, Nonoperating: 1ms (Gs)	1000	1000
Rotational Operating Vibration 10-500Hz (rad/s ²)	15	15
Linear Operating Vibration 5-200Hz (Grms)	2.4	2.4
Acoustics, Idle, Typical (bels—sound power)	2.2	2.0
Acoustics, Seek, Typical (bels—sound power)	2.4	2.2
Physical		
Height (mm/in)	7.0/0.276	7.0/0.276
Width (mm/in)	69.85/2.750	69.85/2.750
Depth (mm/in)	100.35/3.951	100.35/3.951
Weight (g/lb, max)	90/0.198	90/0.198
Carton Unit Quantity	50	50
Cartons Per Pallet/Layer	60/10	60/10
Special Features		
IntelliRV ³	Yes	Yes
Halogen Free	Yes	Yes
RoHS Compliance	Yes	Yes

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

² Extended warranty options available. Consult your distributor for details.

³ IntelliRV uses positioning and shock sensors in the drive.

⁴ Seagate does not recommend operating at sustained extreme temperatures. Operating at higher temperatures will reduce useful life of the products.

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