Specifications

Specifications	
Capacity	8TB
Standard Model Number	ST8000VE001
Interface	SATA 6Gb/s
Recording Technology	CMR
Drive Design	Air
Features and Performance	
Drive Bays Supported	Unlimited
AI Channels	32
AI Real Time Capture Events/Sec [1, 2]	Up to 120
AI Real Time Compare Events/Sec [1, 2]	Up to 96
HD Cameras Supported [3]	Up to 64
RV Sensors	Yes
Max. Sustained Transfer Rate OD (MB/s, MiB/s)	Up to 255
Cache (MB)	256MB
Reliability/Data Integrity	
Tarnish Resistant	Yes
Load/Unload Cycles	600,000
Nonrecoverable Read Errors Rate, Max	1 per 10E15
Power-On Hours per year	8760
Workload Rate Limit (WRL) [4]	550
Mean Time Between Failures (MTBF) (hours)	2000000hr
Power Management	
Startup Current, Typical (12V, A)	2.0A
Average Read/Write Power * (W) [5]	8.8
Idle Average (W)	7.4W
Standby Mode/Sleep Mode, Typical (W)	1.0/1.0W
Voltage Tolerance (5V)	±5%
Voltage Tolerance (12V)	±10%
Environmental/Temperature	
Operating (drive reported, min °C)	5
Operating (drive reported, max °C) [6]	65°C
Nonoperating (ambient, min °C)	-40°C

1 Events can be human, vehicle, or object capture.

2 Tested and verified using embedded AI NVR – 64-ch HD recording, 16-ch PB. Average picture size ~250KB

3 1080P, H.265, 25fps

4 SkyHawk AI surveillance drives are designed for always-on workloads of 550TB/year.

5 Based on IDEMA three stream workload

6 Seagate does not recommend operating at sustained extreme temperatures. Operation at high temperatures will shorten product life.

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