

Surveillance HDD

Data Sheet

The New Generation SV Drive

- The industry's first surveillance-optimized hard drive platform with capacities up to 6TB improves video streaming, drive performance and data integrity in surveillance applications.
- Seventh-generation Seagate® surveillance drive is tuned for high write-cycle workloads typical in video surveillance storage systems.
- The Surveillance HDD supports higher-resolution cameras and up to 16 drives per system, with up to 32 cameras per drive.
- Reliably performs in multi-drive systems with RAID support from RV sensors
- 24×7 operational capabilities while maintaining high MTBF of 1M hours
- Options for a current-limited startup of less than 2A supports the use of embedded system power supplies.
- Low power consumption options support always-on surveillance systems.
- Never miss a frame with quick time-to-ready.
- Idle3 spin control features enable power-on in standby mode or drive spin-down to conserve power and improve reliability during archival periods.
- Optional 3-year +Rescue Data Recovery Service plan protects against data loss from viruses, software issues, or mechanical and electrical breakdowns.

Best-Fit Applications

- NVR
- Embedded SDVR
- Hybrid SDVR
- Surveillance DVR





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Specifications	6TB ¹	5TB¹	4TB¹	3TB¹	3TB¹	2TB¹	1TB¹	
Marketing Name	Surveillance HDD							
Model Number	ST6000VX0001	ST5000VX0001	ST4000VX000	ST3000VX002	ST3000VX006	ST2000VX003	ST1000VX001	
+Rescue Model Number	ST6000VX0011	ST5000VX0011	ST4000VX002	_	ST3000VX005	ST2000VX005	ST1000VX003	
Interface	SATA 6Gb/s							
Cache, MB	128	128	64	64	64	64	64	
Bytes per Sector	4096	4096	4096	4096	4096	4096	4096	
Surveillance Performance								
R/V (Rotational Vibration) Sensor	Υ	Υ	Υ	Υ	N	N	N	
Drive Bays Supported	1 to 16	1 to 16	1 to 16	1 to 16	1 to 8	1 to 8	1 to 8	
Cameras Supported	up to 32							
Max Sustained Data Rate, OD Read (MB/s)	180	180	180	180	180	180	180	
+Rescue Data Recovery Service								
3-Year Option With +Rescue Model	Υ	Υ	Υ	N	Υ	Υ	Υ	
Voltage								
Voltage Tolerance, Including Noise (5V)	±5%	±5%	±5%	±5%	±5%	±5%	±5%	
Voltage Tolerance, Including Noise (12V)	±10%	±10%	±10%	±10%	±10%	±10%	±10%	
Power Management								
Startup Current, Average (12V, A)	1.8	1.8	1.8	1.8	1.8	1.8	1.2	
Operating Mode, Typical (W)	9	9	5.6	5.6	5.6	5.6	5.6	
Idle Average (W)	7.2	7.2	4.0	4.0	4.0	4.0	4.0	
Standby Mode (W)	0.6	0.6	0.5	0.5	0.5	0.5	0.5	
Sleep Mode (W)	0.6	0.6	0.5	0.5	0.5	0.5	0.5	
Environmental								
Temperature								
Operating (ambient, min °C)	5	5	0	0	0	0	0	
Operating (drive case, max °C) Nonoperating (ambient, min °C)	60 -40	60 -40	70 -40	70 –40	70 –40	70 -40	70 -40	
Nonoperating (ambient, max °C)	-40 70	-40 70	-40 70	-40 70	70	70	70	
Reliability								
Load/Unload Cycles	300,000	300,000	300,000	300,000	300,000	300,000	300,000	
Nonrecoverable Read Errors per Bits Read, Max	1 per 10E14							
Mean Time Between Failures (MTBF, hours)	1M							
Power-On Hours	8760	8760	8760	8760	8760	8760	8760	
Warranty, Limited (years)	3	3	3	3	3	3	3	
Physical								
Height (mm/in)	26.11/1.028	26.11/1.028	26.11/1.028	26.11/1.028	26.11/1.028	26.11/ 1.028	19.98/0.787	
Width (mm/in)	101.85/4.010	101.85/4.010	101.6/4.0	101.6/4.0	101.6/4.0	101.6/4.2	101.6/4.0	
Depth (mm/in)	147.0/5.878	147.0/5.878	146.99/5.787	146.99/5.787	146.99/5.787	146.99/5.789	146.99/5.787	
Weight (g/lb)	780/1.720	780/1.720	610/1.345	610/1.345	610/1.345	610/1.347	400/0.88	
Carton Unit Quantity	20	20	20	20	20	20	25	
Cartons per Pallet	40	40	40	40	40	40	40	
Cartons per Layer	8	8	8	8	8	8	8	

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









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Specifications	3TB1	2TB¹	1TB¹					
Marketing Name	SV35 Series™	SV35 Series	SV35 Series					
Model Number	ST3000VX000	ST2000VX000	ST1000VX000					
+Rescue Model Number	ST3000VX004	ST2000VX004	ST1000VX002					
Interface	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s					
Cache, MB	64	64	64					
Bytes per Sector	4096	4096	4096					
Surveillance Performance								
R/V (Rotational Vibration) Sensor	N	N	N					
Drive Bays Supported	1 to 8	1 to 8	1 to 8					
Cameras Supported	up to 32	up to 32	up to 32					
Max Sustained Data Rate, OD Read (MB/s)	210	210	210					
+Rescue Data Recovery Service								
3-Year Option With +Rescue Model	Υ	Y	Υ					
Voltage	·							
Voltage Tolerance, Including Noise (5V)	±5%	±5%	±5%					
Voltage Tolerance, Including Noise (12V)	+10%/-7.5%	+10%/-7.5%	+10%/-7.5%					
Power Management								
Startup Current, Average (12V, A)	2.0	2.0	2.0					
Operating Mode, Typical (W)	8.0	8.0	5.90					
Idle Average (W)	5.40	5.40	3.36					
Standby Mode (W)	0.75	0.75	0.63					
Sleep Mode (W)	0.75	0.75	0.63					
Environmental								
Temperature								
Operating (ambient, min °C)	0 70	0 70	0 70					
Operating (drive case, max °C) Nonoperating (ambient, min °C)	70 -40	70 -40	70 -40					
Nonoperating (ambient, max °C)	70	70	70					
Reliability								
Load/Unload Cycles	300,000	300,000	300,000					
Nonrecoverable Read Errors per Bits Read, Max	1 per 10E14	1 per 10E14	1 per 10E14					
Mean Time Between Failures (MTBF, hours)	1M	1M	1M					
Power-On Hours	8760	8760	8760					
Warranty, Limited (years)	3	3	3					
Physical								
Height (mm/in)	26.11/1.028	26.11/1.028	19.98/0.787					
Width (mm/in)	101.6/4.0	101.6/4.0	101.6/4.0					
Depth (mm/in)	146.99/5.787	146.99/5.787	146.99/5.787					
Weight (g/lb)	626/1.38	626/1.38	400/0.88					
Carton Unit Quantity	20	20	25					
Cartons per Pallet	40	40	40					
Cartons per Layer	8	8	8					

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







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