

Surveillance HDD

Data Sheet

The New Generation SV Drive

- The industry's first surveillance-optimised hard drive precision-tuned for high write surveillance workloads operating 24x7
- Capacities up to 8TB support 64 cameras per drive and 8+¹ drives per system
- Engineered for workloads of 180TB/year, three times that of desktop drives
- Low power consumption and startup current to minimise heat and vibration emission, improving long-term drive reliability
- Tarnish-resistant components to help protect drive from environmental elements, increasing field reliability
- Customise power settings for incremental savings during system downtime without compromising time to record
- Reliable performance in multi-drive systems with support from RV sensors
- Optional 3-year +Rescue Data Recovery Service plan to help protect against data loss from viruses, software issues or mechanical and electrical breakdowns

Best-Fit Applications

- NVR
- Embedded SDVR
- Hybrid SDVR
- Surveillance DVR

¹Drives with Rotational Vibration sensors can be used in systems with 8+ drive bays. Drives without Rotational Vibration are ideal for systems with 8 or fewer drives.





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Specifications	Surveillance HDD						
Capacity	8TB	6TB	5TB	4TB	3TB	2TB	1TB
Standard Model Numbers	ST8000VX0002	ST6000VX0001	ST5000VX0001	ST4000VX000	ST3000VX006	ST2000VX003	ST1000VX001
+Rescue Model Numbers	ST8000VX0012	ST6000VX0011	ST5000VX0011	ST4000VX002	ST3000VX005	ST2000VX005	ST1000VX003
Interface	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s
Cache	256MB	128MB	128MB	64MB	64MB	64MB	64MB
Bytes per Sector	4,096	4,096	4096	4,096	4,096	4,096	4,096
Performance							
R/V (Rotational Vibration) Sensor	Yes	Yes	Yes	Yes	No	No	No
Drive bays supported	8+	8+	8+	8+	1 to 8	1 to 8	1 to 8
Cameras Supported	Up to 64	Up to 64	Up to 64	Up to 64	Up to 64	Up to 64	Up to 64
Max Sustainable Transfer Rate	230MB/s	180MB/s	180MB/s	180MB/s	180MB/s	180MB/s	180MB/s
+Rescue Data Recovery Service							
3-Year Option With +Rescue Model	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Voltage							
Voltage Tolerance, Inc. Noise (5V)	±5%	±5%	±5%	±5%	±5%	±5%	±5%
Voltage Tolerance, Inc. Noise (12V)	±10%	±10%	±10%	±10%	±10%	±10%	±10%
Power Management							
Startup Power (12V, A)	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Average Operating Power	9.0W	9.0W	9.0W	5.6W	5.6W	5.6W	5.6W
Idling Average	7.6W	7.2W	7.2W	4.0W	4.0W	4.0W	4.0W
Standby Mode	0.6W	0.6W	0.6W	0.5W	0.5W	0.5W	0.5W
Sleep Mode	0.6W	0.6W	0.6W	0.5W	0.5W	0.5W	0.5W
Environmental/Temperature							
Operating (ambient, min)	5 °C	5 °C	5 °C	0 °C	0 °C	0 °C	0 °C
Operating (drive case, max)	60 °C	60 °C	60 °C	70 °C	70 °C	70 °C	70 °C
Non-operating (ambient, min)	-40 °C	-40 °C	-40 °C	-40 °C	-40 °C	-40 °C	-40 °C
Non-operating (ambient, max)	70 °C	70 °C	70 °C	70 °C	70 °C	70 °C	70 °C
Reliability							
Tarnish Resistant	Yes ¹	Yes ¹	Yes ¹	Yes ¹	No	No	No
Load/Unload Cycles	300,000	300,000	300,000	300,000	300,000	300,000	300,000
Non-recoverable Read Errors per Bits Read, Max	1 per 10E15	1 per 10E14	1 per 10E14	1 per 10E14	1 per 10E14	1 per 10E14	1 per 10E14
Mean Time Between Failures	1,000,000hr	1,000,000hr	1,000,000hr	1,000,000hr	1,000,000hr	1,000,000hr	1,000,000hr
Power-on Hours	8760	8760	8760	8760	8760	8760	8760
Warranty, Limited (years)	3	3	3	3	3	3	3
Physical							
Height	26.11mm	26.11mm	26.11mm	26.11mm	26.11mm	26.11mm	19.99mm
Height	1.028in	1.028in	1.028in	1.028in	1.028in	1.028in	0.787in
Width	101.85mm	101.85mm	101.85mm	101.6mm	101.6mm	101.6mm	101.60mm
Width	4.010in	4.010in	4.010in	4.0in	4.0in	4.0in	4.0in
Depth	147.00mm	147.00mm	147.00mm	146.99mm	146.99mm	146.99mm	146.99mm
Depth	5.878in	5.878in	5.878in	5.787in	5.787in	5.787in	5.787in
Typical Weight	780g	780g	780g	610g	610g	610g	400g
Typical Weight	1.72lb	1.72lb	1.72lb	1.345lb	1.345lb	1.345lb	0.88lb
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

Specifications	SV35 Series™		
Capacity	3TB	2TB	1TB
Standard Model Numbers	ST3000VX000	ST2000VX000	ST1000VX000
+Rescue Model Numbers	ST3000VX004	ST2000VX004	ST1000VX002
Interface	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s
Cache	64MB	64MB	64MB
Bytes per Sector	4,096	4,096	4,096
Performance			
R/V (Rotational Vibration) Sensor	No	No	No
Drive bays supported	1 to 8	1 to 8	1 to 8
Cameras Supported	Up to 32	Up to 32	Up to 32
Max Sustainable Transfer Rate	210MB/s	210MB/s	210MB/s
+Rescue Data Recovery Service			
3-Year Option With +Rescue Model	Yes	Yes	Yes
Voltage			
Voltage Tolerance, Inc. Noise (5V)	±5%	±5%	±5%
Voltage Tolerance, Inc. Noise (12V)	+10%/–7.5%	+10%/–7.5%	+10%/–7.5%
Power Management			
Startup Power (12V, A)	2.0	2.0	2.0
Average Operating Power	8.0W	8.0W	5.90W
Idling Average	5.4W	5.4W	3.36W
Standby Mode	0.75W	0.75W	0.63W
Sleep Mode	0.75W	0.75W	0.63W
Environmental/Temperature			
Operating (ambient, min)	0°C	0°C	0°C
Operating (drive case, max)	70°C	70°C	70°C
Non-operating (ambient, min)	–40°C	–40°C	–40°C
Non-operating (ambient, max)	70°C	70°C	70°C
Reliability			
Tamish Resistant	—	—	—
Load/Unload Cycles	300,000	300,000	300,000
Non-recoverable Read Errors per Bits Read, Max	1 per 10E14	1 per 10E14	1 per 10E14
Mean Time Between Failures	1,000,000hr	1,000,000hr	1,000,000hr
Power-on Hours	8760	8760	8760
Warranty, Limited (years)	3	3	3
Physical			
Height	26.11mm	26.11mm	19.99mm
Height	1.028in	1.028in	0.787in
Width	101.6mm	101.6mm	101.6mm
Width	4.0in	4.0in	4.0in
Depth	146.99mm	146.99mm	146.99mm
Depth	5.787in	5.787in	5.787in
Typical Weight	626g	626g	400g
Typical Weight	1.38lb	1.38lb	0.88lb
Carton Unit Quantity	20	20	25
Cartons per Pallet	40	40	40
Cartons per Layer	8	8	8

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