



Seagate ST4000VX016

Standalone Seagate SkyHawk surveillance hard drive, not a NAS appliance · Specification summary

Capacity	4 TB
Interface and form factor	SATA 6 Gb/s; 3.5-inch drive
Device class	3.5-inch surveillance hard drive
Recording technology	CMR recording technology in this exact model column.
Drive construction	Air-filled drive design in the cited model table.
Capacity measurement	One TB represents one trillion bytes. Formatting, operating-system measurement and reserved functions reduce the space available for video.
Recorder application	The manufacturer identifies NVR and video DVR storage as intended applications. Confirm the actual recorder drive-capacity limit, firmware and compatibility list.
Surveillance firmware reference	ImagePerfect firmware is described for 24x7 surveillance recording, subject to the model workload limit and recorder configuration.
Health management	SkyHawk Health Management is listed for this model. Recorder and software support require separate confirmation.
Drive-bay reference	Up to 16 drive bays in this model column. Check the recorder enclosure, vibration environment and approved drive list.
Camera-stream reference	Up to 64 HD camera streams is the manufacturer drive reference; actual bitrate, workload and recorder channel limits still apply.
Maximum sustained transfer reference	180 MB/s maximum sustained outer-diameter transfer reference; this is distinct from the SATA 6 Gb/s interface rate.
Cache	256 MB cache for ST4000VX016.
Rotational-vibration sensors	RV sensors are listed in this exact model column.
Workload rating	180 TB/year surveillance workload reference. Assess aggregate recording traffic rather than capacity alone.
Annual powered-operation reference	8,760 power-on hours per year in the manufacturer table; this is not a promise of uninterrupted service.
Load and unload cycle reference	600,000 load/unload cycles in this edition; this is a design rating, not a guaranteed installation life.
MTBF reference	1,000,000 hours MTBF in the model table is a reliability statistic, not a one-million-hour lifetime or warranty for an individual drive.
Environmental-component reference	Tarnish-resistant components are listed. This does not make the bare drive waterproof, an outdoor enclosure or suitable for every corrosive environment.
Startup current	1.8 A typical startup current on the 12 V rail; size the complete recorder supply for all drives and other loads.

Average operating power	3.7 W average operating power in the cited model column; actual system consumption depends on operation.
Average idle power	2.5 W average idle-power reference.
Standby and sleep power	0.25 W standby and 0.25 W sleep, both typical references.
5 V supply tolerance	5 V rail voltage tolerance: plus or minus 5%.
12 V supply tolerance	12 V rail voltage tolerance: plus or minus 10%.
Minimum operating ambient temperature	0 degrees C minimum operating ambient temperature. The separate drive-reported maximum is not an ambient-temperature upper limit.
Maximum drive-reported temperature	65 degrees C maximum drive-reported operating temperature in this column. Sustained high temperatures reduce useful life; provide appropriate enclosure cooling.
Minimum non-operating ambient temperature	-40 degrees C minimum non-operating ambient temperature. No maximum storage temperature is inferred from this row.
Maximum physical dimensions	20.2 x 101.6 x 146.99 mm, in height x width x depth order, using the separate maximum-dimension rows.
Typical drive weight	630 g typical drive weight in this edition; it is not a shipping-package weight.
Carton planning reference	25 drives per carton in the manufacturer logistics table. This is not an ISD minimum order or a multiplier for the quantity entered in an enquiry.
Pallet planning reference	40 cartons per pallet and eight cartons per layer in the manufacturer logistics table; actual ISD packing and freight require confirmation.
Manufacturer warranty edition	The 2022 table lists a three-year limited manufacturer warranty. Confirm the actual serial, region, purchase eligibility and ISD local warranty terms; this reference is not an ISD warranty promise.
Regional Rescue service reference	The model table lists a three-year Rescue Data Recovery Services reference. The footnote limits this offer to selected regions and qualifying availability; confirm the actual serial and purchase. Recovery success is not guaranteed.

Specifications are summarised from the manufacturer's published information (checked 2026-10-21). They describe the cited version only. Confirm the exact model, suffix and supplied revision before ordering. ISD confirms supply, price, availability and warranty separately.

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