

TOSHIBA



S300 Surveillance Hard Drives




Always On, Always Watching

With surveillance systems, nothing but the best is good enough. The Toshiba 3.5-inch S300 is built to meet the highest demands. With support for up to 32 high-resolution surveillance video cameras simultaneously and 2 TB capacity, it brings everything into clear view. Each S300 is built with the highest-quality components and has passed rigorous tests to ensure 24x7 reliability and performance. That's Toshiba quality you can trust under the harshest working conditions.

Use for

- Surveillance Digital Video Recorders (sDVR)
- Surveillance Network Video Recorders (sNVR)
- Hybrid sDVR (analog and IP)
- RAID Storage Arrays for Surveillance

Top Features

- SATA** 3.5" SATA Hard Drive
- RPM** 5,400 rpm
-  128 MB buffer
-  Up to 32 cameras
- 24/7** 24/7 operation
-  3-year warranty

Capacity

2
TB





S300

 Surveillance Hard Drives

Designed and tested for compatibility

The S300 has been designed and tested to support up to 32 high resolution cameras, allowing flexible scalability for your security camera systems. Compatible with DVR, NVR, video servers and video management systems for around-the-clock security, the surveillance never sleeps – so that you can.



Smart performance delivers

The S300 is a smart performer. That's because Toshiba's Dynamic Cache Technology optimises read and write cycle each allocation through buffer management and a special on-board cache algorithm.



Integrated RV sensors

Regular hard disk drives without RV sensors can affect the performance of a multi-bay system by generating 'knock-on' vibration. The S300 ensures high reliability by minimising vibration effects through their advanced control and sensing technology. Multiple sensors detect the slightest shock and built-in RV sensors also compensate for rotational vibration – eliminating the possibility of 'knock-on' vibration in multi-bay surveillance systems.

2 TB

HDWT720UZSVA

Basic Specifications

Form factor	3.5-inch
Interface	6.0 Gbit/s
Number of cameras supported	32
Drive bays supported	up to 8
Rotational Vibration (RV) Sensors	–
Shock Sensor	yes
Advanced Format (AF)	yes
RoHS compatible	yes
Halogen free	yes
Recording Technology	SMR

Performance

Rotational speed (rpm)	5400
Max. data transfer speed (sustained MB/s Typ.)	184
Buffer size (MB)	128
Average latency (ms)	5.56

Reliability

Workloads (TB/year)	180
MTTF (hours)	1 000 000
Unrecoverable error rate	1 per 10 ¹⁴
24 x 7 operation	yes
Load/Unload cycle	600 000
Limited warranty (years)	3

Power Management

Supply voltage	5 V DC ±5 % 12 V DC ±10 %
Consumption (operating)	4.01 W typ.
Consumption (active idle)	2.08 W typ.

Environmental

Temperature (operating/non-operating)	0 to 70 °C –40 to 70 °C
Vibration (operating)	4.90 m/s ² {0.50 G} (5 to 350 Hz) 2.45 m/s ² {0.25 G} (350 to 500 Hz)
Vibration (non-operating)	29.4 m/s ² {3.0 G} (5 to 500 Hz)
Shock (operating)	686 m/s ² {70 G} (2 ms duration)
Shock (non-operating)	3430 m/s ² {350 G} (2 ms duration)
Acoustics (idle mode)	21 dB typ.

Physical

Dimensions	147 (L) x 101.85 (W) x 26.1 (H)
Weight	440 g