

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 4 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
-  Up to 32 cameras
- 24/7** 24/7 operation
-  3-year warranty

Capacity

**4
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.

4 TB	4 TB
HDWT740UZSVA	HDWT140UZSVA

Basic Specifications

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

Performance

Rotational speed (rpm)	5400	5400
Max. data transfer speed (sustained MB/s Typ.)	184	157
Buffer size (MB)	128	128
Average latency (ms)	5.56	5.56

Reliability

Workloads (TB/year)	180	110
MTTF (hours)	1 000 000	1 000 000
Unrecoverable error rate	1 per 10 ¹⁴	1 per 10 ¹⁴
24 x 7 operation	yes	yes
Load/Unload cycle	600 000	600 000
Limited warranty (years)	3	3

Power Management

Supply voltage	5 V DC ±5 % 12 V DC ±10 %	5 V DC ±5 % 12 V DC ±10 %
Consumption (operating)	4.11 W typ.	7.5 W typ.
Consumption (active idle)	2.36 W typ.	4 W typ.

Environmental

Temperature (operating/non-operating)	0 to 70 °C -40 to 70 °C	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)	7.35 m/s ² {0.75 G} (5 to 300 Hz) 2.45 m/s ² {0.25 G} (300 to 500 Hz)
Vibration (non-operating)	29.4 m/s ² {3.0 G} (5 to 500 Hz)	29.4 m/s ² {3.0 G} (5 to 500 Hz)
Shock (operating)	686 m/s ² {70 G} (2 ms duration)	686 m/s ² {70 G} (2 ms duration)
Shock (non-operating)	3430 m/s ² {350 G} (2 ms duration)	2940 m/s ² {300 G} (2 ms duration)
Acoustics (idle mode)	22 dB typ.	26 dB typ.

Physical

Dimensions	147 (L) x 101.85 (W) x 26.1 (H)	147 (L) x 101.85 (W) x 26.1 (H)
Weight	650 g	720 g