

TOSHIBA



S300 Pro Surveillance Hard Drives




Capture every detail

Toshiba's 3.5-inch S300 Pro Surveillance Hard Drive is designed and tested for 24/7 reliable surveillance, built for speed, capacity, and longer content retention. Capture and analyse every frame from up to 64 video cameras in high resolution with the S300 Pro. Space is important to continually capture a history of video evidence over a period of time. With 10 TB you get the capacity to record and play back the events in real-time in high resolution and with object identification and face recognition.

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** 7,200 rpm
-  256 MB buffer
-  Up to 64 cameras
- 24/7** 24/7 operation
-  3-year warranty

Capacity

10
TB





S300 Pro

 Surveillance Hard Drives

Designed and tested for compatibility

The S300 Pro has been designed and tested to support up to 64 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.



Industry-leading performance

A 256 MB buffer and high transfer rates meet the demands of surveillance data from higher-resolution camera streams. Improved real-time drive performance is achieved through Toshiba's Dynamic Cache Technology optimizing read and write cycle cache allocation through an on-board cache algorithm and buffer management.



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 Pro 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.

10 TB

HDWT31AUZSVA

Basic Specifications

Form factor	3.5-inch
Interface	6.0 Gbit/s
Number of cameras supported	64
Drive bays supported	8+
Rotational Vibration (RV) Sensors	yes
Shock Sensor	yes
Advanced Format (AF)	yes
RoHS compatible	yes
Halogen free	yes
Recording Technology	CMR

Performance

Rotational speed (rpm)	7200
Max. data transfer speed (sustained MB/s Typ.)	248
Buffer size (MB)	256
Average latency (ms)	4.17

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 +6/-5 % 12 V DC ±10 %
Consumption (operating)	9.48 W typ.
Consumption (active idle)	7.15 W typ.

Environmental

Temperature (operating/non-operating)	0 to 70 °C -40 to 70 °C
Vibration (operating)	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)
Shock (operating)	686 m/s ² {70 G} (2 ms duration)
Shock (non-operating)	2450 m/s ² {250 G} (2 ms duration)
Acoustics (idle mode)	34 dB typ.

Physical

Dimensions	147 (L) x 101.85 (W) x 26.1 (H) mm
Weight	770 g