TOSHIBA

S300 Pro
Surveillance
Hard Drives

Capture every detail

Toshiba 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 up to 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.

50+ YEARS OF TOSHIBA STORAGE INNOVATION

Use for

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

Top Features

- Designed for 24/7 operation
- Up to 64 cameras
- Workload 300 TB/year
- MTTF/MTBF 1.2 million hours
- 7200 rpm speed with 512 MiB buffer
- CMR technology
- 3.5-inch Form Factor

Capacities

10 TB 8 TB 6 TB 4 TB

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S300 Pro

👁 Surveillance Hard Drives

Capacity *1		10 TB	8 TB	6 TB	4 TB
Parts Number		MD10ADA10TV HDWTA1AUZSVA	MD10ADA800V HDWTA80UZSVA	MD10ADA600V HDWTA60UZSVA	MD10ADA400EV HDWTA40UZSVA
Basic Specifications					
Recording Technology		CMR			
Interface		SATA 6.0 Gbit/s			
Mechanical Design		Air			
Form Factor *2		3.5-inch			
Sector Size		512e			
Features					
Number of Camera *3		up to 64			
Drive Bays Supported		up to 24			
Tarnish resistant		yes			
24 / 7 Operation		yes			
Rotational Vibration Safeguard (RVS)		yes			
Shock Sensor		yes			
Performances					
Rotation Speed		7200 rpm			
Sustained data transfer rate *4		281 MB/s (268 MiB/s)			
Buffer Size *5		512 MiB			
Reliability					
MTTF/MTBF *6		1 200 000 hours			
Unrecoverable Error Rate		1 per 10E15			
Maximum rated workload *7		300 TB/year			
Load/Unload cycles		600 000 times			
Power Requirements					
Supply Voltage		12 VDC ±10 % 5 VDC +10 / -7 %			
Power Consumption	Operating	9.07 W	8.19 W	7.43 W	6.75 W
	Active Idle	5.74 W	4.92 W	4.14 W	3.49 W
Environmental					
Temperature	Operating *8	0 to 65 ℃ (Surface)			
	Non-operating	-40 to 70 ℃			
Vibration	Operating	7.35 m/s² {0.75 G} (5 to 300 Hz) 2.45 m/s² {0.25 G} (300 to 500 Hz)			
	Non-operating	29.4 m/s² {3.0 G} (5 to 500 Hz)			
Shock	Operating	686 m/s² {70 G} (2 ms duration)			
	Non-operating	2450 m/s² {250 G} (2 ms duration)			
Acoustics (Active Idle)		34 dB (Typ.)			
Physical					
Dimensions		147 (L) x 101.85 (W) x 26.1 (H) mm (Max)			
Weight		755 g (Max)	730 g (Max)	710 g (Max)	690 g (Max)

*1 Definition of capacity: One terabyte (TB) = one trillion bytes, but storage capacity actually available may vary depending on operating environment and formatting. Available storage capacity (including examples of various media files) will vary based on file size, formatting, settings, software and operating system and/or pre-installed software applications, or media content. Actual formatted capacity may vary.
*2 "3.5-inch" means the form factor of HDDs. They do not indicate drive's physical size.
*3 Number of surveillance cameras support capability is defined by performance simulation with High Definition cameras at 10Mbit/s rate. Actual results may vary based on various factors, including the types of cameras installed, the system's hardware and software capabilities, and the video compression technology used, as well as system variables such as resolution, frames per second, and other settings.
*4 Read and write speed may vary depending on the host device, read and write conditions, and file size.
*5 A mebibyte (MiB) means 1 048 576 bytes.
*6 MTTF/MTBF (Mean Time to Failure/Mean Time Between Failures) is not a guarantee or estimate of product life; it is a statistical value related to mean failure rates for a large number of products which may not accurately reflect actual operation. Actual operating life of the product may be different from the MTTF/MTBF.
*7 Workload is a measure of the data throughput of the year, and it is defined as the amount of data written, read or verified by commands from the host system.
*8 Operation of high surface temperature will be shortened of the drives useful life. The recommendation operating condition of surface temperature is less than 60℃.

• Product image may represent a design model.
• Before creating and producing designs and using, customers must also refer to and comply with the latest versions of all relevant information of this document and the instructions for the application that Product will be used with or for.

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