

TOSHIBA



S300 Surveillance Hard Drives

Always On, Always Watching

Toshiba S300 Surveillance Hard Drive is built to meet the customer demands. With support for up to 64 high-resolution surveillance video cameras simultaneously and up to 6 TB capacity, it brings everything into clear view. The S300 is built with the high-quality components and has passed rigorous tests to ensure 24/7 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)

Top Features

- Designed for 24/7 operation
- Up to 64 cameras
- Workload up to 180 TB/year
- MTTF/MTBF 1.0 million hours
- 5400 rpm speed with up to 256 MiB buffer
- 3.5-inch Form Factor

Capacities

6 TB 4 TB 2 TB

S300

Surveillance Hard Drives

Capacity *1	6 TB		4 TB		2 TB	
Parts Number	HDWT860UZSVA	HDWT760UZSVA	HDWT840UZSVA	HDWT740UZSVA	HDWT720UZSVA	
Basic Specifications						
Recording Technology	SMR					
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	up to 32	up to 64	up to 32		
Drive Bays Supported	up to 8					
Tarnish resistant	yes					
24 / 7 Operation	yes					
Rotational Vibration Safeguard (RVS)	yes	-	yes	-		
Shock Sensor	yes					
Performances						
Rotation Speed	5400 rpm					
Sustained data transfer rate *4	184 MB/s (176.4 MiB/s)					
Buffer Size *5	256 MiB	128 MiB	256 MiB	128 MiB		
Reliability						
MTTF/MFBF *6	1 000 000 hours					
Unrecoverable Error Rate	1 per 10E14					
Maximum rated workload *7	180 TB/year					
Load/Unload cycles	600 000 times					
Power Requirements						
Supply voltage	12 VDC ±10 % 5 VDC ±5 %					
Power Consumption	Operating	4.84 W	4.48 W	4.36 W	4.11 W	4.01 W
	Active Idle	2.81 W	2.69 W	2.33 W	2.36 W	2.08 W
Environmental						
Temperature	Operating *8	0 to 70 °C (Surface)				
	Non-operating	-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)				
	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)				
	Non-operating	2940 m/s ² {300 G} (2 ms duration)	3430 m/s ² {350 G} (2 ms duration)			
Acoustics (Active Idle)	24 dB (Typ.)		22 dB (Typ.)		21 dB (Typ.)	
Physical						
Dimensions	147 (L) x 101.85 (W) x 26.1 (H) mm (Max)					
Weight	680 g (Max)		650 g (Max)		440 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°C.

- 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.