

TOSHIBA



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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 64 high-resolution surveillance video cameras simultaneously and up to 6 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 (only S300 4 TB – HDWT140UZSVA)

Top Features

- SATA** 3.5" SATA Hard Drive
- RPM** 5,400 rpm (6 | 4 | 2 TB)
5,700 rpm (1 TB)
- 256 MB buffer (6 | 4 TB)
128 MB buffer (4 | 2 TB)
64 MB buffer (1 TB)
- 64** Up to 64 cameras
- 24/7** 24/7 operation

Capacities

6 TB 4 TB 2 TB 1 TB



S300



6 TB	4 TB	4 TB	4 TB	2 TB	1 TB
HDWT860UZSVA	HDWT840UZSVA	HDWT740UZSVA	HDWT140UZSVA	HDWT720UZSVA	HDWV110UZSVA

Basic Specifications

Form factor	3.5-inch				
Interface	6.0 Gbit/s				
Number of cameras supported	64	64	64	64	32
Drive bays supported	up to 8				
Rotational Vibration (RV) Sensors	-	-	-	yes	-
Shock Sensor	yes				
Advanced Format (AF)	yes				
RoHS compatible	yes				
Halogen free	yes				
Recording Technology	SMR	SMR	SMR	CMR	CMR

Performance

Rotational speed (rpm)	5400				5700
Max. data transfer speed (sustained MB/s Typ.)	184		157	184	153
Buffer size (MB)	256		128		64
Average latency (ms)	5.56				5.27

Reliability

Workloads (TB/year)	180		110	180	
MTTF (hours)	1 000 000				-
Unrecoverable error rate	1 per 10 ¹⁴				
24 x 7 operation	yes				
Load/Unload cycle	600 000				300 000
Limited warranty (years)	3				

Power Management

Supply voltage	5 V DC ±5 % 12 V DC ±10 %					
Consumption (operating)	4.84 W typ.	4.36 W typ.	4.11 W typ.	7.5 W typ.	4.01 W typ.	5.7 W typ.
Consumption (active idle)	2.81 W typ.	2.33 W typ.	2.36 W typ.	4 W typ.	2.08 W typ.	3 W typ.

Environmental

Temperature (operating/non-operating)	0 to 70 °C -40 to 70 °C				0 to 75 °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)	4.90 m/s ² {0.50 G} (5 to 350 Hz) 2.45 m/s ² {0.25 G} (350 to 500 Hz)		6.57 m/s ² {0.67G} (5 to 500 Hz)
Vibration (non-operating)	29.4 m/s ² {3.0 G} (5 to 500 Hz)		49.0 m/s ² {3.0 G} (5 to 500 Hz)	29.4 m/s ² {3.0 G} (5 to 500 Hz)		10.2 m/s ² {1.04G} (2 to 200 Hz)
Shock (operating)	686 m/s ² {70 G} (2 ms duration)					
Shock (non-operating)	2940 m/s ² {300 G} (2 ms duration)	3430 m/s ² {350 G} (2 ms duration)		2940 m/s ² {300 G} (2 ms duration)	3430 m/s ² {350 G} (2 ms duration)	3432 m/s ² {350G} (2 ms half sine)
Acoustics (idle mode)	24 dB typ.	22 dB typ.		26 dB typ.	21 dB typ.	19 dB typ.

Physical

Dimensions	147 (L) x 101.85 (W) x 26.1 (H)				
Weight	680 g	650 g	720 g	440 g	450 g