

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 up to 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 (4 | 2 TB)
5,700 rpm (1 TB)
-  128 MB (4 | 2 TB) buffer
64 MB (1 TB) buffer
-  Up to 32 cameras
- 24/7** 24/7 operation
-  3-year warranty

Capacities

4	2	1
TB	TB	TB



S300



4 TB	4 TB	2 TB	1 TB
HDWT740UZSVA	HDWT140UZSVA	HDWT720UZSVA	HDWW110UZSVA

Basic Specifications

Form factor	3.5-inch			
Interface	6.0 Gbit/s			
Number of cameras supported	32	32	32	16
Drive bays supported	up to 8	up to 8	up to 8	up to 8
Rotational Vibration (RV) Sensors	–	yes	–	–
Shock Sensor	yes	yes	yes	yes
Advanced Format (AF)	yes	yes	yes	yes
RoHS compatible	yes	yes	yes	yes
Halogen free	yes	yes	yes	yes
Recording Technology	SMR	CMR	SMR	SMR

Performance

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

Reliability

Workloads (TB/year)	180	110	180	72
MTTF (hours)	1 000 000	1 000 000	1 000 000	–
Unrecoverable error rate	1 per 10 ¹⁴	1 per 10 ¹⁴	1 per 10 ¹⁴	1 per 10 ¹⁴
24 x 7 operation	yes	yes	yes	yes
Load/Unload cycle	600 000	600 000	600 000	300 000
Limited warranty (years)	3	3	3	3

Power Management

Supply voltage	5 V DC ±5 % 12 V DC ±10 %	5 V DC ±5 % 12 V DC ±10 %	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.	4.01 W typ.	5.7 W typ.
Consumption (active idle)	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 70 °C -40 to 70 °C	0 to 70 °C -40 to 70 °C	0 to 65 °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)	29.4 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)	686 m/s ² {70 G} (2 ms duration)	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)	3430 m/s ² {350 G} (2 ms duration)	3432 m/s ² {350G} (2 ms half sine)
Acoustics (idle mode)	22 dB typ.	26 dB typ.	21 dB typ.	19 dB typ.

Physical

Dimensions	147 (L) x 101.85 (W) x 26.1 (H)	147 (L) x 101.85 (W) x 26.1 (H)	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	440 g	450 g