

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)
-  128 MB (4 | 2 TB) buffer
-  32 cameras
- 24/7** 24/7 operation
-  3-year warranty

Capacities

4 2
TB TB



S300



Surveillance Hard Drives

	4 TB	4 TB	2 TB
	HDWT740UZSVA	HDWT140UZSVA	HDWT720UZSVA
Basic Specifications			
Form factor	3.5-inch		
Interface	6.0 Gbit/s		
Number of cameras supported	32	32	32
Drive bays supported	up to 8	up to 8	up to 8
Rotational Vibration (RV) Sensors	–	yes	–
Shock Sensor	yes	yes	yes
Advanced Format (AF)	yes	yes	yes
RoHS compatible	yes	yes	yes
Halogen free	yes	yes	yes
Recording Technology	SMR	CMR	SMR
Performance			
Rotational speed (rpm)	5400	5400	5400
Max. data transfer speed (sustained MB/s Typ.)	184	157	184
Buffer size (MB)	128	128	128
Average latency (ms)	5.56	5.56	5.56
Reliability			
Workloads (TB/year)	180	110	180
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
24 x 7 operation	yes	yes	yes
Load/Unload cycle	600 000	600 000	600 000
Limited warranty (years)	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 %
Consumption (operating)	4.11 W typ.	7.5 W typ.	4.01 W typ.
Consumption (active idle)	2.36 W typ.	4 W typ.	2.08 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
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)
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)
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)
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)
Acoustics (idle mode)	22 dB typ.	26 dB typ.	21 dB typ.
Physical			
Dimensions	147 (L) x 101.85 (W) x 26.1 (H) mm	147 (L) x 101.85 (W) x 26.1 (H) mm	147 (L) x 101.85 (W) x 26.1 (H) mm
Weight	650 g	720 g	440 g