

# 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 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 (6 | 4 TB) buffer  
128 MB (4 | 2 TB) buffer  
64 MB (1 TB) buffer
- 64** Up to 64 cameras
- 24/7** 24/7 operation

#### Capacities

6	4	2	1
TB	TB	TB	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	32	32	32	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	SMR	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 <sup>14</sup>					
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 65 °C -40 to 70 °C	
Vibration (operating)	4.90 m/s2 {0.50 G} (5 to 350 Hz) 2.45 m/s2 {0.25 G} (350 to 500 Hz)		7.35 m/s2 {0.75 G} (5 to 300 Hz) 2.45 m/s2 {0.25 G} (300 to 500 Hz)	4.90 m/s2 {0.50 G} (5 to 350 Hz) 2.45 m/s2 {0.25 G} (350 to 500 Hz)	6.57 m/s2 {0.67G} (5 to 500 Hz)	
Vibration (non-operating)	29.4 m/s2 {3.0 G} (5 to 500 Hz)		49.0 m/s2 {3.0 G} (5 to 500 Hz)	29.4 m/s2 {3.0 G} (5 to 500 Hz)	10.2 m/s2 {1.04G} (2 to 200 Hz)	
Shock (operating)	686 m/s2 {70 G} (2 ms duration)					
Shock (non-operating)	2940 m/s2 {300 G} (2 ms duration)	3430 m/s2 {350 G} (2 ms duration)		2940 m/s2 {300 G} (2 ms duration)	3430 m/s2 {350 G} (2 ms duration)	3432 m/s2 {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