

# 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)
-  Up to 64 cameras
- 24/7** 24/7 operation

#### Capacities

|    |    |    |    |
|----|----|----|----|
| 6  | 4  | 2  | 1  |
| TB | TB | TB | TB |



## S300

 Surveillance Hard Drives

| 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  |
| 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 <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 %<br>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<br>-40 to 70 °C   |  |  |  | 0 to 65 °C<br>-40 to 70 °C                       |  |
| Vibration (operating)                 | 4.90 m/s <sup>2</sup> {0.50 G}<br>(5 to 350 Hz)<br>2.45 m/s <sup>2</sup> {0.25 G}<br>(350 to 500 Hz) |  | 7.35 m/s <sup>2</sup> {0.75 G}<br>(5 to 300 Hz)<br>2.45 m/s <sup>2</sup> {0.25 G}<br>(300 to 500 Hz) | 4.90 m/s <sup>2</sup> {0.50 G}<br>(5 to 350 Hz)<br>2.45 m/s <sup>2</sup> {0.25 G}<br>(350 to 500 Hz) |  | 6.57 m/s <sup>2</sup> {0.67G}<br>(5 to 500 Hz)   |
| Vibration (non-operating)             | 29.4 m/s <sup>2</sup> {3.0 G}<br>(5 to 500 Hz)   |  | 49.0 m/s <sup>2</sup> {3.0 G}<br>(5 to 500 Hz)   | 29.4 m/s <sup>2</sup> {3.0 G}<br>(5 to 500 Hz)   |  | 10.2 m/s <sup>2</sup> {1.04G}<br>(2 to 200 Hz)   |
| Shock (operating)                     | 686 m/s <sup>2</sup> {70 G}<br>(2 ms duration)   |  |  |  |  |  |
| Shock (non-operating)                 | 2940 m/s <sup>2</sup> {300 G}<br>(2 ms duration)   | 3430 m/s <sup>2</sup> {350 G}<br>(2 ms duration) |  | 2940 m/s <sup>2</sup> {300 G}<br>(2 ms duration)   | 3430 m/s <sup>2</sup> {350 G}<br>(2 ms duration) | 3432 m/s <sup>2</sup> {350G}<br>(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 |