

Video/Surveillance

# S300 Surveillance Hard Drive

Capture every detail



10 8 6 5 4  
TB TB TB TB TB

Color

Toshiba's 3.5-inch S300 Surveillance Hard Drive is designed and tested for 24/7 reliable surveillance, built for speed, capacity, and longer content retention. Capture and analyse every frame from up to 64 video cameras in high resolution with the S300. Space is important to continually capture a history of video evidence over a period of time. With up to 10 TB you get the capacity to record and play back the events in real-time in high resolution and with object identification and face recognition.

Use for:

- Surveillance Digital Video Recorders (sDVR)
- Surveillance Network Video Recorders (SNVR)
- Hybrid sDVR (analog and IP)
- RAID Storage Arrays for Surveillance



- SATA** 3.5" SATA Hard Drive
- RPM** 7200 / 5400 rpm
- 256 / 128 MB buffer
- 24/7** 24/7 operation
- Supports up to 64 video cameras
- High reliability and enhanced real-time performance
- Toshiba Dynamic Cache Technology
- Toshiba Stable Platter Technology
- High-endurance design
- 3-year warranty

## Manual

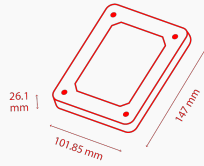
[Toshiba Installation and Safety.pdf](#)

## Tools

[ToshibaStorageDiagnosticTool\\_1.30.8920.zip](#)



# Product Specifications



## Basic Specifications

|  |   |
|--|---|
| <b>Form factor</b>                       | 3.5-inch                                  |
| <b>Interface</b>                         | 6.0 Gbit/s                                |
| <b>Number of cameras supported</b>       | 64 (6 TB - 10 TB),<br>32 (4 TB, 5 TB)     |
| <b>Drive bays supported</b>              | 8+ (6 TB - 10 TB),<br>1 to 8 (4 TB, 5 TB) |
| <b>Rotational Vibration (RV) Sensors</b> | Yes                                       |
| <b>Advanced Format (AF)</b>              | Yes                                       |
| <b>RoHS compatible</b>                   | Yes                                       |
| <b>Halogen Free</b>                      | Yes                                       |
| <b>Shock Sensor</b>                      | Yes                                       |

## Performance

|                                    |   |
|------------------------------------|---|
| <b>Rotational speed</b>            | 7,200 rpm (6 TB - 10 TB),<br>5,400 rpm (4 TB, 5 TB)                                 |
| <b>Buffer size</b>                 | 256 MB (6 TB - 10 TB),<br>128 MB (4 TB, 5 TB)                                       |
| <b>Data transfer speed</b>         | 248 MB/s Typ. (10 TB),<br>241 MB/s Typ. (6 TB, 8 TB),<br>157 MB/s Typ. (4 TB, 5 TB) |
| <b>Average latency</b>             | 4,17 ms (6 TB - 10 TB),<br>5,56 ms (4 TB, 5 TB)                                     |
| <b>Native Command Queing (NCQ)</b> | supported   |

## Reliability

|                                 |   |
|---------------------------------|---|
| <b>Workloads</b>                | 180 TB/year (6 TB - 10 TB),<br>110 TB/year (4 TB, 5 TB) |
| <b>MTTF</b>                     | 1,000,000 hours   |
| <b>Unrecoverable error rate</b> | 1 per 10E14 bits read                                   |
| <b>24/7 operation</b>           | Yes   |
| <b>Load / Unload Cycle</b>      | 600,000   |

## Box Content

|                    |  |
|--------------------|--|
| <b>Box Content</b> | 3.5-inch internal hard drive -<br>S300 Surveillance Hard Drive |
|--------------------|--|

## Physical

|                         |  |
|-------------------------|--|
| <b>Weight (approx.)</b> | 770 g max. (6 TB - 10 TB),<br>720 g max. (4 TB, 5TB) |
| <b>Dimensions</b>       | 147 (L) x 101.85 (W) x 26.1 (H) mm                   |

## Environmental

|  |   |
|--|---|
| <b>Acoustics (idle mode)</b>                   | 34 dB typ. (6 TB - 10 TB),<br>26 dB typ. (4 TB, 5 TB)                         |
| <b>Shock (non-operating)</b>                   | 250 G / 2 ms duration (6 TB - 10 TB),<br>300 G / 2 ms duration (4 TB, 5 TB)   |
| <b>Shock (operating)</b>                       | 70 G / 2 ms duration  |
| <b>Vibration (non-operating)</b>               | 3.0 G (5 to 500Hz) (6 TB - 10 TB),<br>5.0 G (5 to 500Hz) or less (4 TB, 5 TB) |
| <b>Vibration (operating)</b>                   | 0.75 G (5 to 300 Hz)<br>0.25 G (300 to 500 Hz)                                |
| <b>Temperature (operating / non-operating)</b> | 0 to 70° C / -40 to 70° C   |

## Power Management

|                                  |  |
|----------------------------------|--|
| <b>Consumption - Active Idle</b> | 7.15 W typ. (10 TB),<br>6.33 W typ. (8 TB),<br>5.59 W typ. (6 TB),<br>4.00 W typ. (4 TB, 5 TB) |
| <b>Consumption (operating)</b>   | 9.48 W typ. (10 TB), 8.61 W typ. (8 TB),<br>7.88 W typ. (6 TB),<br>7.5 W typ. (4 TB, 5 TB)     |
| <b>Supply voltage</b>            | 5VDC +6/-5%; 12VDC ±10% (6TB - 10TB) ,<br>5VDC ±5%; 12VDC ±10% (4TB, 5TB)                      |

# Product Range

| Part number         | Capacity | Color |
|---------------------|----------|-------|
| HDWT31AUZSVA (Bulk) | 10 TB    | -     |
| HDWT380UZSVA (Bulk) | 8 TB     | -     |
| HDWT360UZSVA (Bulk) | 6 TB     | -     |
| HDWT150UZSVA (Bulk) | 5 TB     | -     |
| HDWT140UZSVA (Bulk) | 4 TB     | -     |

## Logistical Information:

|                              |   |
|------------------------------|---|
| Box dimensions               | n/A                                     |
| Box weight (gross)           | n/A                                     |
| Master carton dimensions     | 321 x 406 x 213 mm                      |
| Master carton weight (gross) | 16 kg (typ.), 11 kg (typ.) (1TB, 500GB) |
| Boxes per master carton      | 20                                      |
| Pallet dimensions            | n/A                                     |
| Pallet weight (net)          | n/A                                     |
| Units per pallet             | 180                                     |

## Contact

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