

TOSHIBA



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S300 AI Surveillance Hard Drives

Reliable. Scalable. AI-ready.

The Toshiba S300 AI Surveillance Hard Drive is designed for professional environments and large-scale surveillance infrastructures. Supporting up to 10 TB of storage, it can manage video feeds from up to 64 cameras while delivering real-time AI analytics on 32 simultaneous streams — all without dropping a single frame. Designed for nonstop operation, it ensures smooth capture and analysis of large data volumes — keeping your system responsive and reliable, even under a heavy load.

Use for

- AI Video Analytics Server and Storage Systems
- Centralized Surveillance Data Storage Systems
- Video Archive and Data Recovery Systems
- Multi-Bay-RAID Storage for Surveillance Data

Top Features

- SATA** 3.5" SATA Hard Drive
- RPM** 7,200 rpm
- 512 MB buffer
- 24/7** 24/7 operation
- Supports up to 64 video cameras
- Supports up to 32 AI streams
- 550** 550 TB/year workload
- 5** 5-year warranty

Capacities

10 **8**
TB **TB**



S300 AI

 Surveillance Hard Drives

| | 10 TB | 8 TB |
|--|--|---------------|
| | MG10ADA10TE-V | MG10ADA800E-V |
| Basic Specifications | | |
| Form factor | 3.5-inch | |
| Interface | SATA 6.0 Gbit/s | |
| Recording Technology | CMR | |
| Number of cameras supported | 64 | |
| AI Streams supported | 32 | |
| Drive bays supported | 24 | |
| Shock Sensor | yes | |
| Native command queuing (NCQ) | yes | |
| Advanced Format (AF) | yes | |
| RoHS compatible | yes | |
| Halogen free | yes | |
| Performance | | |
| Rotational speed (rpm) | 7,200 | |
| Max. data transfer speed (sustained MB/s Typ.) | 281 | |
| Buffer size (MB) | 512 | |
| Reliability | | |
| Workloads (TB/year) | 550 | |
| MTTF (hours) | 2,000,000 | |
| Unrecoverable error rate | 1 per 10^15 | |
| 24 x 7 operation | yes | |
| Load/Unload cycle | 600,000 | |
| Limited warranty (years) | 5 | |
| Power Management | | |
| Supply voltage | 5 V DC +10 / -7 % 12 V DC ±10 % | |
| Consumption (operating) | 8.47 W typ. | |
| Consumption (active idle) | 4.92 W typ. | |
| Environmental | | |
| Temperature (operating/non-operating) | 5 to 60 °C -40 to 70 °C | |
| Vibration (operating) | 7.35 m/s2 {0.75 G} (5 to 300 Hz) 2.45 m/s2 {0.25 G} (300 to 500 Hz) | |
| Vibration (non-operating) | 29.4 m/s2 {3.0 G} (5 to 500 Hz) | |
| Shock (operating) | 686 m/s2 {70 G} (2 ms duration) | |
| Shock (non-operating) | 2,450 m/s2 {250 G} (2 ms duration) | |
| Acoustics (idle mode) | 34 dB typ. | |
| Physical | | |
| Dimensions | 147 (L) x 101.85 (W) x 26.1 (H) mm | |
| Weight | 755 g | |
| Logistic Information (Bulk) | | |
| Master Carton quantity | 20 pcs | |
| Master Carton size (L x B x H) | 2,410 x 308 x 228 mm | |
| Master Carton Weight | 17 kg | |
| Pallet quantity per layer | 120 pcs | |
| Number of Layer | 5 layer | |
| Pallet quantity | 600 pcs | |
| Pallet size (L x W x H) | 870 x 970 x 1,272 mm | |
| Pallet Weight | 510 kg | 495 kg |
| Country of Origin | Philippines | |