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S300 AI Surveillance Hard Drives

Reliable. Scalable. Al-ready.

The Toshiba S300 AI Surveillance Hard Drive is designed for professional environments and large-scale surveillance infrastructures. Supporting up to 24 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

- Al 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

512/1024 MB buffer

Supports up to 64 video cameras

Supports up to 32 Al streams

550 TB/year workload

24/7 operation

5-year warranty

Capacities

24 22



TOSHIBA

Write your story.

S300 AI



	24 TB	22 TB	20 TB	18 TB	16 TB	14 TB	10 TB	8 TB
	MG11ACA24TE-V	MG11ACA22TE-V	MG11ACA20TE-V	MG11ACA18TE-V	MG11ACA16TE-V	MG11ACA14TE-V	MG10ADA10TE-V	MG10ADA800
Basic Specifications								
orm factor	3.5-inch							
nterface	SATA 6.0 Gbit/s							
Recording Technology	CMR							
lumber of cameras supported	64							
l Streams supported				3	2			
rive bays supported	24							
hock Sensor	yes							
ative command queuing (NCQ)	yes							
dvanced Format (AF)	yes							
oHS compatible	yes							
alogen free	yes							
erformance								
otational speed (rpm)				7,2	100			
Max. data transfer speed sustained MB/s Typ.)	309 299 295						281	
uffer size (MB)		1,024					512	
eliability			1,0					
-								
/orkloads (TB/year)				55	00			
ITTF (hours)	2,500,000 2,000,000							
nrecoverable error rate	1 per 10^15							
4 x 7 operation	yes							
oad/Unload cycle	600,000							
imited warranty (years)				į	5			
ower Management								
supply voltage	5 V DC +10 /- 7 % 12 V DC ±10 %							
onsumption (operating)		7.65 W typ.		7.51 W typ.	7.04 \	V typ.	8.47 V	V typ.
onsumption (active idle)		4.35 W typ.		4.16 W typ.	3.66 \	V typ.	4.92 V	√ typ.
nvironmental								
				F +	50 °C			
emperature (operating/non- perating)				5 to (-40 to				
F	7.35 m/s2 {0.75 G}							
Vibration (operating)	(5 to 300 Hz)							
	2.45 m/s2 {0.25 G}							
	(300 to 500 Hz)							
ibration (non-operating)				29.4 m/s				
			100 /	(5 to 5	00 1 12)		606 /	2 (70.6)
hock (operating)	490 m/s2 {50 G} (2 ms duration)						686 m/s (2 ms du	
	1,960 m/s2 {200 G}						2,450 m/s	
hock (non-operating)	(2 ms duration)						(2 ms dı	. ,
coustics (idle mode)	20 dB typ. 34 dB typ.							typ.
hysical								
imensions				147 (L) x 101.85 (W) x 26.1 (H) mm			
/eight	730 g 755 g							
ogistic Information (Bulk)				J				Ü
					0.00			
laster Carton quantity	20 pcs 410 x 308 x 228 mm							
laster Carton size (L x B x H)								
laster Carton Weight	17 kg							
	120 pcs							
allet quantity per layer				5 la	yer			
allet quantity per layer umber of Layer								
allet quantity per layer lumber of Layer allet quantity				600	pcs			
allet quantity per layer umber of Layer					pcs			495 kg