



Surveillance Storage Capacity Helping to Keep Us Safer 24/365

High capacity HDDs of up to 6TB designed for security camera systems that require continuous operation throughout the year. These HDDs can support as many as 64 high resolution cameras*, and provide flexible capacity for future expansion of security camera systems.

*Subject to model specification.

Surveillance Hard Disk Drive



S300 Series

Reliability and Durability

Designed for 24/365 operation and a million hour MTTF, this series provides the reliability to give you peace of mind, and also has the durability to operate in ambient temperatures ranging from 0 - 70 °C.

Flexible Expandability

Can be support as many as 64 high resolution cameras*, and help provide flexible capacity for future expansions, such as the addition of storage capacity in single or multiple drive bays.

Multi-Capacity Lineup

Capacities in the lineup range from 1TB to 6TB, enabling you to choose the surveillance HDD options that best fit your needs.

S300 Hard Disk Drive

Application

- Surveillance Network Video Recorders (sNVR)
- Surveillance Digital Video Recorders (sDVR)
- Hybrid sDVR (Analog and IP)
- RAID Storage Arrays for Surveillance Solutions

Specifications

S300								
Formatted Capacity	6TB		4TB		2TB		1TB	
Model Number	HDWT860UZSVA	HDWT840UZSVA	HDWT140UZSVA	HDWT740UZSVA	HDWT720UZSVA	HDWW110UZSVA		
Specification								
Recording Technology	SMR		CMR		SMR		CMR	
Interface	SATA 6 Gbit/s							
Form Factor	3.5-inch (Height: 26.1 mm, Length: 147.0mm, Wide: 101.85 mm)							
Maximum Weight	680 g	650 g	720 g	650 g	440 g	450 g		
Performance								
Rotation Speed	5400 rpm					5700 rpm		
Number of Camera Supported	Up to 64			Up to 32		Up to 16		
Drive Bays Supported	Up to 8							
RAID Supported	TBA							
Rotation Vibration (RV) Sensor	Shock Sensor Supported		Supported	Shock Sensor Supported				
Buffer Size	256 MiB		128 MiB			64 MiB		
Maximum Data Transfer Speed (Sustained) (Typ.)	176.4 MiB/s		157 MiB/s	176.4 MiB/s		153 MiB/s		
Reliability								
MTTF	1,000,000 hours					-		
24/7 Operation	Supported							
Workload Rating	180 TB Transferred per year		110 TB Transferred per year	180 TB Transferred per year		72 TB Transferred per year		
Power Requirements								
Supply Voltage	5 V DC ±5% 12 V DC ±10%							
Consumption	Active	2.81 W	2.33 W	4 W	2.36 W	2.08 W	3.0 W	
Environmental Requirements								
Temperature	Operating	0 to 70 °C (Surface)					0 to 75 °C (Surface)	
	Non-Operating	-40 to 70 °C						
Vibration	Non-Operating	29.4 m/s ² { 3.0 G } (5 to 500 Hz)					10.2 m/s ² { 1.04 G } (2 to 200 Hz)	
Shock	Non-Operating	2940 m/s ² { 300 G } (2 ms duration)	3430 m/s ² { 350 G } (2 ms duration)	2940 m/s ² { 300 G } (2 ms duration)	3430 m/s ² { 350 G } (2 ms duration)			
Acoustic	Idle	24 dB	22 dB	26 dB	22 dB	21 dB	19 dB	

Limited Warranty: 3 years

Definition of capacity: Toshiba defines a gigabyte (GB) as 1,000,000,000 bytes and a terabyte (TB) as 1,000,000,000,000 bytes. A computer operating system, however, reports storage capacity using powers of 2 for the definition of 1GB = 2³⁰ = 1,073,741,824 bytes and therefore shows less storage capacity. Available storage capacity (including examples of various media files) will vary based on file size, formatting, settings, software and operating system, such as Microsoft Operating System and/or pre-installed software applications, or media content. Actual formatted capacity may vary. | A mebibyte (MiB) means 2²⁰, or 1,048,576 bytes. | MTTF (Mean Time to Failure) is not a guarantee or estimate of product life; it is a statistical value related to mean failure rates for a large number of products which may not accurately reflect actual operation. Actual operating life of the product may be different from the MTTF. | Read and write speed may vary depending on the host device, read and write conditions, and file size. | "3.5-inch" means the form factor of HDDs. They do not indicate drive's physical size. | Workload is a measure of the data throughput of the year, and it is defined as the amount of data written, read or verified by commands from the host system. | Operation of the drive when it has a high surface temperature will shorten its useful life. The recommended operating condition is with a surface temperature of less than 60°C. | Number of surveillance cameras support capability is defined by performance simulation with High Definition cameras at 10Mbit/s rate. Actual results may vary based on various factors, including the types of cameras installed, the system's hardware and software capabilities, and the video compression technology used, as well as system variables such as resolution, frames per second, and other settings. | Before creating and producing designs and using, customers must also refer to and comply with the latest versions of all relevant information of this document and the instructions for the application that Product will be used with or for. Product images used do not represent actual products.

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