



Surveillance storage capacity helping to keep us safer 24/365

High capacity HDDs of up to 10TB 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.

*Supported with 6,8, and 10TB model.

Surveillance Hard Disk Drive



SV 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 500GB to 10TB, enabling you to choose the surveillance HDD options that best fit your needs.

Application

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



Specifications

Formatted Capacity		10TB	8TB	6TB	5TB	4TB	3TB	2TB	1TB	500GB
Model Number		MD06ACA10TV	MD06ACA800V	MD06ACA600V	MD04ABA500V	MD04ABA400V	DT01ABA300V	DT01ABA200V	DT01ABA100V	DT01ABA050V
Specification										
Interface		SATA 6 Gbit/s								
Form Factor		3.5-inch (Height:26.1 mm, Length:147.0 mm, Wide:101.85 mm)								
Maximum Weight		770 g			720 g		680 g		450 g	
Performance										
Rotation Speed		7,200 rpm			Low spin		5,940 rpm	5,700 rpm		
Number of Camera Supported		Up to 64			Up to 32		Not Defined			
Drive Bays Supported		8+			Up to 8					
RV Sensor		Supported					—			
Buffer Size		256 MiB			128 MiB		32 MiB			
Reliability										
MTTF		1,000,000 hours								
24/7 Operation		Supported								
Workload Rating		180 TB Transferred per Year			110 TB Transferred per Year		Not Defined			
Power Requirements										
Supply Voltage		5 V DC +6 / -5 % 12 V DC ±10 %			5 V DC ±5 % 12 V DC ±10 %					
Power Consumption	Active Idle	7.15 W	6.33 W	5.59 W	4 W		4.2 W	3.3 W	3.0 W	
Environmental Requirements										
Temperature	Operating	0 to 70 °C					0 to 75 °C			
	Non-Operating	−40 to 70 °C								
Vibration	Non-Operating	29.4 m/s² { 3.0 G } (5 to 500 Hz)			49m/s² {5.0 G} {5 to 500 Hz}		10.2 m/s² { 1.04 G } (2 to 200 Hz)			
Shock	Non-Operating	2,450 m/s² { 250 G } (2 ms duration)			2,940 m/s² { 300 G } (2 ms duration)		3,430 m/s² { 350 G } (2 ms duration)			
Acoustic	Idle	34 dB			26 dB		24 dB	22 dB	19 dB	

• 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.

Toshiba Electronic Devices & Storage Corporation

<https://toshiba.semicon-storage.com>