TOSHIBA

Surveillance storage HDDs help to keep us safer 24/365

High capacity HDDs, with up to 10TB, are 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 MD06-V and DT02-V series.

Surveillance
Hard Disk Drive

SV Series

Reliability and durability

Designed for 24/365 operation and a million hour MTTF. This HDD series provides the reliability you need and has the durability to operate in surface temperatures ranging from 0-70℃.

Flexible expandability

Can support up to 64 high resolution camera. Helps 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 10TB which allows 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		**10**TB	**8**TB	**6**TB	**6**TB	**4**TB	**6**TB	**4**TB	**2**TB	**1**TB
Model Number		MD06ACA10TV	MD06ACA800V	MD06ACA600V	DT02ABA600VH	DT02ABA400VH	DT02ABA600V	DT02ABA400V	DT02ABA200V	DT01ABA100V
Specification										
Recording Technology		CMR			SMR					CMR
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			680 g	650 g	680 g	650 g	440 g	450 g
Performance										
Rotation Speed		7200 rpm			5400 rpm					5700 rpm
Number of Camera Supported		Up to 64					Up to 32			—
RV Sensor		Supported			—					
Buffer Size		256 MiB					128 MiB			32 MiB
Reliability										
MTTF/MTBF		1M hours								—
24/7 Operation		Supported								
Workload Rating		180 TB Transferred per Year								—
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	2.81 W	2.33 W	2.69 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 (2ms duration)	2450 m/s^2 {250 G }			2940 m/s^2 {300 G}	3430 m/s^2 {350 G}	2940 m/s^2 {300 G}	3430 m/s^2 {350 G}		3430 m/s^2 {350 G}
Acoustic	Idle	34 dB			24 dB	22 dB	24 dB	22 dB	21 dB	19 dB

• Definition of capacity: One terabyte (TB) = one trillion bytes, but storage capacity actually available may vary depending on operating environment and formatting. Available storage capacity (including examples of various media files) will vary based on file size, formatting, settings, software and operating system and/or pre-installed software applications, or media content. Actual formatted capacity may vary. • A mebibyte (MiB) means 1 048 576 bytes. • MTTF / MTBF (Mean Time to Failure / Mean Time Between Failures) of the HDDs during its life time is one million hours. This assumes power-on hours are 24 x 7 in normal surveillance usage (up to 180TB/year total data transfers, and average HDA surface temperature:40°C or less. Use at case HDA surface temperature above 40°C may degrade product reliability and reduce warranty period. • 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. • Number of surveillance cameras support capability is defined by performance simulation with High Definition cameras at 10Mbit/s rate for MD06-V and 4Mbit/s for DT02-VH/DT02-V. 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. • 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. And, DT02-VH/DT02-V/DT01-V temperature specification is case of standard AV multi-streaming recording, otherwise, it is 65°C. • 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. • Company names, product names, and service names may be trademarks of their respective companies.

Toshiba Electronic Devices & Storage Corporation

https://toshiba.semicon-storage.com

HDD-SVEND