



**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 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°C.

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 500GB 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	10TB	8TB	6TB	6TB	4TB	2TB	3TB	2TB	1TB/ 500GB		
Model Number	MD06ACA10TV	MD06ACA800V	MD06ACA600V	DT02ABA600V	DT02ABA400V	DT02ABA200V	DT01ABA300V	DT01ABA200V	DT01ABA100V/ DT01ABA050V		
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	440 g	680 g		450 g		
Performance											
Rotation Speed	7200 rpm			5400 rpm			5940 rpm	5700 rpm			
Number of Camera Supported	Up to 64			Up to 32			—				
Drive Bays Supported	8+			Up to 8							
RV Sensor	Supported			—							
Buffer Size	256 MiB			128 MiB			32 MiB				
Reliability											
MTTF	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	2.69 W	2.36 W	2.08 W	4.2 W	3.3 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 }		
Acoustic	Idle	34 dB			24 dB	22 dB	21 dB	24 dB	22 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 (Mean Time to Failure) 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-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-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.

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