




Surveillance Portfolio

	DVR 	DVR/Hybrid/Network Video Recorder (NVR) 	Video Management System (VMS)/Video Content Analysis (VCA) 	Long-Term Video Retention and Bulk Storage 
Usage Environment	Residential, SMB, F&B/Retail, Commercial Facilities	Casinos, Commercial Buildings, Campuses, Hotels, Factories	Command & Control Centres, Casinos, City Surveillance, Border Control, Airports	Banks, City Surveillance, Homeland Security, Airports
What They Care About	Reliability, Cost	Reliability, Data Loss Protection, Scalability	Reliability, Data Loss/Integrity, Data Security, Scalability	Reliability, Power, Cost
Usage Requirements	24x7, Low Power, Sustain Heat & High Temperature, Optimised for Video Streaming	24x7, High Write Optimised, Data Integrity, Support Multiple HD/MP Streams	24x7, Mixed Workloads Optimised, Data Disposal, Power Saving, Optimised for > 5HDDs	24x7, Write Many/Read Less, Low Power on Multiple HDDs, Data Disposal, Optimised for > 5HDDs
Best-Fit Applications	<ul style="list-style-type: none"> DVR With ≤16 Channels DVR With 4CIF, 2CIF Res DVR With <4 HD Streams 	<ul style="list-style-type: none"> Up to 20 HD Video Recordings Uses RAID as Redundancy DVR ≥16 Channels 	<ul style="list-style-type: none"> Virtualised Server Appliance IP Storage (NAS, SAN) Backup Appliance (JBOD, DAS) 	<ul style="list-style-type: none"> JBOD NAS DAS
Seagate Recommendations	Surveillance HDD¹	Surveillance HDD Enterprise Capacity HDD	Surveillance HDD Enterprise Capacity HDD	Surveillance HDD Enterprise Capacity HDD
Drive Count	8+ HDDs ¹	8+ HDDs >5 HDDs	8+ HDDs >5 HDDs	8+ HDDs >5 HDDs
Low Power	•	• •	• •	• •
RAID		• •	• •	• •
Concurrent HDDs Recording	8+ HDDs ¹	8+ HDDs >5 HDDs	8+ HDDs >5 HDDs	8+ HDDs >5 HDDs
+Rescue Data Recovery Option	•	• •	• •	• •
ISE (Instant Secure Erase) With Self-Encrypting Drive (SED) Option		• •	• •	• •
FIPS Validation With SED Technology		• •	• •	• •
Data Integrity	•	• •	• •	• •
Mixed Workloads		• •	• •	• •

¹ Surveillance HDDs with RV sensors (4-6TB) support systems with 8+ drive bays. Models without RV not recommended for systems with over 8 HDDs.



Surveillance-Optimised Drives



	Surveillance HDD (without RV)	Surveillance HDD (with RV)	Enterprise Capacity 3.5 HDD
Usage Environment	Securing your home and business Public safety and events	Video analytics and optimisation Public safety and events	Video analytics and optimisation
Application	Low cost, low resolution, simple to install and use for SMB, retail and commercial use, or home applications	Central monitoring applications typically using IP cameras for medium-sized businesses like banks, casinos or airports	Bulk storage, data centre, government or corporate applications where HD video and video analytics are valued
Audience	System Integrators, SMB, End Users		System Integrators, IT Managers
Capacity¹	1, 2, 3TB	4, 5, 6, 8TB	1, 2, 3, 4, 5, 6, 8TB
Advantages	Low-power, quiet, reliable storage for consumer or SMB surveillance with multiple cameras	Reliable performance in multi-camera systems, vibration tolerance with R/V sensors to support RAID environments, quick time-to-ready	Fast random performance for data analytics and in multi-drive applications
Time to Ready	Better: Idle 1, 2, 3 support		Best: PowerChoice™ for customised time-to-ready and power savings
Camera	Up to 64		100+
System	1 to 8 drives	8+ drives	>5 drives RV @ 1,500Hz = 12.5rd/s ² Top Cover Attached Motor
Security	—		ISE feature in SED or FIPS configurations
Workload	1M MTBF SATA		2M MTBF SAS/SATA
Data Recovery	+Rescue Option available		—
Workload Rating	180TB/year		550TB/year
Warranty, Limited	3-year		5-year

¹ One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.

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