

# BANK



## Surveillance in Financial Institutions

“Over 3,700 physical attacks were committed on European ATMs during 2020, with more than €22 million being stolen.” Source: European Association for Secure Transactions (EAST)\*

**Financial institutions, such as banks, are high-profile targets for those involved in organized crime. Advanced surveillance technology has proven itself incredibly effective at combating various forms of criminal activity. Through its use, the continued safety of customers and employees can be maintained. In addition, high-value items and capital assets may be fully protected.**

Banks need to do everything in their power to mitigate any potential financial losses that they could be subject to. Though the number of bank robberies has reduced over the decades, as surveillance systems and other security measures have become more pervasive, figures compiled by Statista\*\* show these are still a major concern - with 2,975 bank robberies recorded in the United States alone during 2018. According to the European Association for Secure Transactions (EAST), the regularity of physical attacks against ATMs remains high in Europe. There were 3,722 of these attacks in 2020, equating to losses of €22.3 million. Increasing prevalence of cash-in-transit (CIT) heists in certain parts of the world also needs to be factored in.



**Maximising security** – Through deployment of surveillance cameras at bank entrances/exits and use of AI features like facial recognition, it is possible to address the threats posed by robbery. Known criminals can be identified and pre-emptive action taken to stop them. Placing cameras in back office operations will deter acts of fraudulent conduct by members of staff. Motion detection means that out-of-hours monitoring may be carried out, with alarms being set off by an intruder's presence in the vault or other parts of the building. Cameras situated in close proximity to ATMs (within the bank or on its external walls) will discourage physical attacks or scamming.

\*Source: E.A.S.T, June 01, 2021, EAST publishes Fraud Update 2-21

\*\*Source: Statista.com, March 10, 2021, Bank crimes in the United States in 2018, by region and type

**Assuring safety** – As well as the monetary aspect, the safety of employees and customers has to be considered. Customers who have confidence in the organisation will continue to do business with it. Having a safer and happier working environment will likewise lead to greater staff retention. Here, once again, facial recognition and motion detection technologies can be implemented to warn of unusual behaviour or the presence of suspicious objects, so that appropriate responses can be made.

**Operational analysis** – Use of surveillance technology also enables the management team to analyse the day-to-day running of a financial institution - so that workflows can be made more efficient and staffing levels better allocated to tasks. This will result in heightened profitability, along with greater customer satisfaction.



## HDD Recommendations

Toshiba HDDs address the needs of surveillance systems in modern financial institutions, delivering the 24/7 reliability and fast responsiveness required for AI-based applications. Toshiba's S300 Pro series offer capacities up to 10 TB and can deal with

simultaneous data input from 64 high-resolution cameras. The enterprise grade MG series HDDs, which are available in 1 TB to 18 TB capacity versions, support 550TB/year workload levels and are highly suited to big data and analytics activities.



	MG09	MG08	MG07	MG06	MG04
Capacity	18   16 TB	16 TB	8   6   4 TB	14   12 TB	10   8   6 TB
Form factor	3,5"				
Interface	SATA / SAS				
Workloads	550 TB/year				
Rotational speed (rpm)	7.200 rpm				
24 x 7 operation	Yes				
Buffer	512 MB	256 MB			128 MB
Limited warranty (years)	5				
Use for	<ul style="list-style-type: none"><li>• Centralized Surveillance Data Storage Systems</li><li>• Archive and Data Recovery Systems</li><li>• Industrial Server- and Storage Systems</li><li>• Enterprise Storage Arrays</li></ul>				

S300 Pro		
10 TB	8 TB	6 TB
3,5"		
SATA		
180 TB/year		
7.200 rpm		
Yes		
256 MB		
3		
<ul style="list-style-type: none"> <li>Surveillance Digital Video Recorders (sDVR)</li> <li>Surveillance Network Video Recorders (sNVR)</li> <li>Hybrid sDVR (analog and IP)</li> <li>RAID Storage Arrays for Surveillance</li> </ul>		