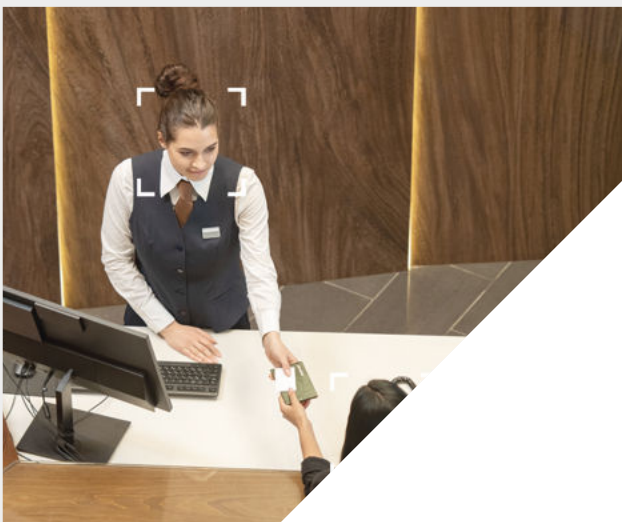




Surveillance in Hospitality Sector

Hospitality is a challenging industry. Hotels, restaurants, bars/cafes, fast food outlets, casinos and even cruise liners all now need to outperform their competitors - maximising revenue, generating opportunities and keeping day-to-day running expenses down, while also ensuring that customers/guests have safe and enjoyable experiences. By using advanced surveillance systems, these businesses can make their operations better able to reach expected targets.

There are many ways in which inclusion of surveillance systems can benefit hospitality-based businesses. They may be used for identifying people entering/exiting the premises, checking employees arrive at work on time, recording acts of vandalism/anti-social behaviour or other crimes, etc. In addition, they allow management to gauge the speed of service that their staff deliver (so that customers do not become frustrated by excessive waiting times), allowing better allocation of resources to places where there are inadequacies and the implementation of efficiency improvements, while also preventing employee pilfering. Conversely, they can help to avert hotel guests who are looking to steal items from their rooms, stop restaurant diners leaving before they have paid, or identify various forms of fraudulent behaviour.



Maximising security/safety – Hotels and resort complexes, as well as large scale gatherings (such as music festivals or sporting events), have a duty of care to their guests/attendees. They must continuously maintain the highest degrees of security - preventing any risk of physical harm or the theft of belongings. They also need to keep their employees safe from potential dangers that might arise. Another aspect that should be mentioned is the role that surveillance systems can play in improving crowd control at large gatherings. In all these cases, the ability to react quickly to concerning situations is vital - and this is best achieved via access to superior surveillance infrastructure, backed up by cutting-edge data storage reserves.

Develop better strategic insight – Scrutiny of stored surveillance footage can help hospitality businesses to formulate more efficient workflows, check that adequate amenities are available to their clientele, time how quickly they are attended to, and monitor employees in order to decide if further training is necessary. This will allow these businesses to enhance the services they provide, thereby encouraging customers/guests to return.

Align staffing with customer demand – Using the people counting and movement data that can be compiled from distributed camera hardware, management will be better able to assign staff to the correct places within the business operation, as well as identifying which periods are likely to put most strain on available resources (in order that extra shifts can be added accordingly).



HDD Recommendations

Supporting the latest surveillance deployments, Toshiba data storage technology has proven itself capable of meeting all the key operational criteria set by the hospitality industry. Toshiba's high-capacity HDDs deliver long-term reliability with a lower total cost of ownership (TCO). With data storage capacities reaching 6 TB, the S300 series HDDs have been developed for small/medium-sized installations, making them of great value to many hospitality ventures. Larger scale sites may need to use the professional class S300 AI series HDDs, which offer

storage capacities up to 24 TB and with its integrated OptiFrame™ technology can manage video feeds from up to 64 cameras while delivering real-time AI analytics on 32 simultaneous streams. When employed in conjunction with AI-enabled surveillance systems, these devices can be instrumental for behavioural detection and facial recognition processes, so that responsiveness is as quick as possible.





Model	S300 AI
Capacity	24 22 20 18 16 14 TB
Form factor	3.5"
Interface	SATA
Workloads	550 TB/year
Rotational speed	7,200 rpm
24 x 7 operation	Yes
AI Streams supported	Yes
Buffer	1024 MB
Limited warranty (years)	5
Use for	- AI Video Analytics Server and Storage Systems - Centralized Surveillance Data Storage Systems - Video Archive and Data Recovery Systems - Multi-Bay-RAID Storage for Surveillance Data

Model	S300
Capacity	6 4 TB
Form factor	3.5"
Interface	SATA
Number of cameras supported	up to 64
Rotational speed	5,400 rpm
24 x 7 operation	Yes
AI Streams supported	No
Buffer	256 MB
Limited warranty (years)	3
Use for	- Surveillance Digital Video Recorders (sDVR) - Surveillance Network Video Recorders (sNVR) - Hybrid sDVR (analog and IP)

Model	S300 AI
Capacity	10 8 TB
Form factor	3.5"
Interface	SATA
Workloads	550 TB/year
Rotational speed	7,200 rpm
24 x 7 operation	Yes
AI Streams supported	Yes
Buffer	512 MB
Limited warranty (years)	5
Use for	- AI Video Analytics Server and Storage Systems - Centralized Surveillance Data Storage Systems - Video Archive and Data Recovery Systems - Multi-Bay-RAID Storage for Surveillance Data

Model	S300
Capacity	2 TB
Form factor	3.5"
Interface	SATA
Number of cameras supported	up to 64
Rotational speed	5,400 rpm
24 x 7 operation	Yes
AI Streams supported	No
Buffer	128 MB
Limited warranty (years)	3
Use for	- Surveillance Digital Video Recorders (sDVR) - Surveillance Network Video Recorders (sNVR) - Hybrid sDVR (analog and IP)