Integrity Locksmiths & Security is located in a business complex on one of Sydney’s busiest roads, in the centre of the city’s metropolitan area. Experienced in many aspects of security, including locksmithing, intrusion, access and CCTV, the team were recently asked to provide CCTV security for the complex it’s office are situated in.

The client’s brief focused on HD video footage, a video storage and management system with a small footprint, the ability to read licence plates from entering and leaving vehicles, and clear video footage of key areas, day and night.

Integrity Locksmiths & Security installed a Bosch CCTV solution that proved its worth just a few days later, snaring a car thief who cased the car park then broke into one of the company’s vehicles.

The critical areas identified for surveillance comprised the main entry gate, the front of the complex alongside Victoria Road, the 60-meter long car park at the back of the complex, and in particular the driveway with a boom gate entry.

Integrity chose Bosch cameras, ranging from 720p FLEXIDOME IP cameras through to 1080p DINION IP starlight cameras, with a DINION IP starlight 8000 camera to provide an overview of the rear carpark. The cameras and a Bosch DIVAR IP 3000 recorder running the Bosch BVMS system, were chosen due to prior product experience and trust of their performance. A key factor in the decision was the low bandwidth provided by the cameras, particularly at night time due to their Intelligent Dynamic Noise Reduction (IDNR) features. With noise reduced at the source during image capture, the low bitrate would not compromise any video quality, but would significantly reduce storage costs.
The 60 m long carpark and main entry are monitored by two Bosch DINION HD cameras. The image on the left shows the two cameras looking towards the main gate. The image on the right shows the carpark from the front entry looking toward the cameras.

A. Suspect entering through the main gate.
B. Suspect scouting the parking area and vehicles.
C. The suspect breaking into the vehicle in question through the back door.
D. Cameras monitoring the front driveway and boom gate.
Caught in the act with irrefutable footage

Having designed and installed the system, Integrity didn’t have to wait long before it proved its worth – and not only to complex management, but to the whole Integrity team. Just a couple of days after commissioning, a suspected thief was caught in the act on multiple high resolution video streams, giving the Integrity technical team the perfect opportunity to assess just how well its new system met operational requirements.

According to Integrity Locksmiths and Security technical manager, Rob Harding, the suspect did not time his activities well. The CCTV system was installed just a few days prior to his excursion onto the premises. The high positioning of the cameras could have also contributed to the suspect’s lack of awareness of a CCTV camera presence.

Clear video footage showed the suspect scouting the car park area and looking into cars, then breaking into one of the parked vehicle, as seen in images A, B and C. A boom gate camera picked up the intruder talking to a person walking through the complex and then caught him leaving the complex via Victoria Road.

Integrity Locksmiths and Securities provided the video footage to NSW Police on a USB thumb drive with the Bosch VMS Archive Player included for quick and easy review on any Windows PC. According to Harding, police were very impressed with the quality of the video and commented on the clarity of the images. Utilising these images they were able to apprehend, build a case against, and charge the suspect.
A Bosch CCTV solution was installed to “provide a safe and secure environment for tenants and visitors to the complex.” Issues also surfaced as a result of people tampering with gate motors to gain access to the complex outside of hours and also with damage to tenant property and vehicles, so therefore Bosch cameras assisted in clearly identifying offenders/vehicles and number plates whilst also capturing footage through a variety of lighting conditions.

Body Corporate Committee members have remote access to the complex cameras on their mobile devices via the Bosch Mobile Video app whilst authorised Integrity Staff have access to all 10 cameras on the system.

The complex showcases difficult lighting conditions in both the carparks and driveways, so Bosch cameras were suitable as they can handle near complete darkness with only distant street lights leaking indirect light through the gate; this sees part of the 60x20m carpark in complete darkness whilst a small percentage of the image is illuminated by the street lights. Add to this, headlights from vehicles entering and “we needed cameras that were going to handle the light whilst still providing high enough resolutions that we can clearly identify persons and vehicles entering and exiting at any time of the day”, says Harding. The Bosch IP DINION starlight 720p, 1080p and 8000 were more than up for the task. Employing a wireless link (ubiquiti) for the remote cameras, the IDNR capability of the DINION IP 8000 and 1080p was also a major factor in Integrity Security’s decision to use Bosch cameras. “We see consistent night time bandwidth for static images down at 1.4Mb/s, only peaking at 2Mb/s during daylight operation where motion is at its highest.”

A week long monitoring chart of the Ubiquiti AP bandwidth

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**Equipment:**
- DIVAR IP 3000 2x2TB NVR x 1
- DINION IP 5000 HD 1080p camera x 7
- DINION IP starlight 8000 5MP IVA camera x 1
- FLEXIDOME HD 720p 60 VR 3-9 camera x 2

**End User:**
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