A New Level of Security for Penal Institutions
The Building Integration System

BOSCH
Invented for life

Security along the outer perimeters of penal institutions is of course essential. But security within the facility is just as important: guards and other personnel have to be protected from accidents and assaults, and fire detection is vital for saving inmates' lives.

Prisons pose special security challenges. Frequent changes in occupancy and the need to prevent inmates from escaping call for absolute reliability in all areas: security technology, communication, key and lock management, and networking.

The innovative Building Integration System stands for reliability and flexibility in day-to-day prison operation, guaranteeing maximum cost effectiveness and safeguarding your investment. It lets you centrally monitor, control and administer all equipment and systems from a single location. All subsystems are linked via high-level interfacing. This makes it easy for you to structure them to meet actual requirements. Clearly organized displays let personnel respond to notifications and alarms faster and more efficiently.

Security in practice:
The Building Integration System in use
With the versatile Building Integration System, you always have fire protection, cell communication, fence and wall protection, and video surveillance under control. Tamperproof intercoms lets guards speak directly with inmates without running the risk of opening doors. An early fire detection system with tamperproof fire detectors and easy-to-read site plans enables targeted responses. The system also integrates perimeter fence or wall monitoring by seismic detectors, combined with video surveillance and electric eyes, while displaying event locations on a map and procedures to guide operator responses.

High-level interfacing with all security systems to flexibly meet the needs of prisons

Building Integration System (BIS): Everything controlled with the same software

1 **Fire alarm systems: fire panels, fire detectors, manual call points, interfaces**

2 **Intrusion alarm systems: control panels, motion detectors, transmission units, fence control, signalling devices, panic button**
Prevention of escape by monitoring fence and wall perimeters:
▶ Integration of perimeter protection systems with accurate pinpointing of alarms by seismic detectors; camera assignment to alarm locations with automatic image recording, panning by an AutoDome camera and switching on of outdoor lighting in the event of an alarm; combination with door access control for targeted control and monitoring of fence or wall passageways and access roads; video motion detection with direction recognition.

3 **CCTV – video surveillance: cameras, IP video, digital recording and storage, intelligent video analysis (IVA)**

4 **Communication systems: public address and voice alarm, conference systems**

5 **Access control systems: control software, door controllers, card readers**
▶ Protection of security staff: special cell doors with centrally controllable, high-security electromagnetic locks with maximum protection against assaults; cell door status monitoring; door access control with enhanced security involving locks or biometric identification; equipping of guards with personal emergency call systems with tracking transmitters and handheld devices with manual and automatic alarm activation.

The BIS also integrates conventional building systems and processes including building automation, electrical functions, HVAC and others.

More information on innovative security systems is available at www.boschsecurity.com