



BOSCH

Invented for life

Gunshot detection

Strengthen security with fast-acting Intelligent Tracking

The challenge

When there's live fire at your facility, you need to act quickly. It is vital to detect events and identify the source as quickly as possible. However, due to a lack of integration, the lag time between a typical gunshot detection system and locating the source with a (perimeter) surveillance system often leads to a slow response. That means the target could flee the area before you can verify their location and track them manually. Or without gunshot detection in place, a security system may never know if an event had occurred unless damage was detected.

The solution

By combining a leading gunshot detection system with an automated video system, our "slew to cue" solution is able to tell cameras where to point to verify events. The Intelligent Tracking system traces and tracks moving targets in less than one second. This increases the efficiency of your gunshot detection system, significantly reducing missed targets and false alarms, and easing the burden on security personnel so they can focus on the best response.



Respond to gunshot threats in seconds

By integrating cameras and gunshot solutions with our MIC IP or AUTODOME IP cameras, we can guarantee the fastest response to any event. When a gunshot is detected, the cameras focus on the precise location in a second to capture video evidence of the shooter and their surroundings in 4K, full HD or thermal detail.

Act fast with analytics at the edge

All Bosch cameras have Video Analytics to enable them to interpret scenes, so operators can respond to potential threats quickly and more efficiently. It significantly reduces network strain and storage by streaming only the data you need, and because each camera operates independently your security infrastructure is more resilient and reliable.

Respond in real time with Intelligent Tracking

Once an alarm is triggered, moving targets are tracked automatically by the camera closest to the incident. At the same time, operators receive an alert making it faster for them to track the source via the camera that is already capturing the event. Dynamically adjusting the field of view while the camera pans, tilts or zooms ensures that all images are captured with optimal clarity.

Direct drive motor for accuracy

Furthermore, Bosch MIC IP cameras feature an industry-leading robust gear design driven by the motor. This makes them far superior at maintaining and recalibrating an accurate home position than belt-driven alternatives, which often lose their positioning over time.

Geo-spatial mapping

With geo-spatial mapping, targets can be located with pin-point accuracy by detecting where a gunshot took place and sharing the latitude, longitude and elevation coordinates so the closest camera can quickly place “eyes” on the location. It can do this in less than one second, giving you real-time detection of a gunshot source, on or around your facility.

Rugged camera options

Specifically designed for mission-critical applications like energy and utility facilities, Bosch MIC IP cameras are extremely robust and resistant to shock, vibrations and corrosive atmospheres. The solid metal bodies of the MIC IP 7100i cameras and the MIC IP fusion 9000i can withstand severe weather conditions. That includes high winds, rain, fog, dust and 100% humidity (UL Type 6P and IP68), temperatures from -40°C to +65°C, extreme vibrations (IEC60068) and high impacts (IK10). The MIC IP 7100i cameras are also the first of their kind to combine rugged housing and 4K HD resolution with 12x zoom and optical image stabilization.

Low light imaging

Built-in starlight technology ensures highly detailed color images in extreme low-light situations. When light levels drop to zero, the optional illuminator for the MIC IP starlight 7100i camera, or the thermal capabilities of the MIC IP fusion 9000i, ensure the greatest level of detail or early detection of objects. So even in extreme low light conditions, Bosch cameras won't leave you in the dark about security.

Seamless integration

Our partners IENET and Genetec can integrate compatible gunshot solutions like Boomerang by Milcom or ShotSpotter with Bosch MIC IP and AUTODOME IP security cameras. This enables you to benefit from our advanced integrated solution with just a few simple upgrades to your existing system, and for a relatively low cost.



“I recently experienced a live-fire demonstration. The results were very impressive, from the optics to the simultaneous auto-tracking of the live-fire shooters. This illustrated one of the best video integrations with our outdoor detection system that I have seen.”

Ron Fowler, CTO Milton Security

Bosch Security and Safety Systems

Protecting lives, buildings and assets is our aim. Our product portfolio includes video security, intrusion detection, fire detection and voice evacuation systems as well as access control and management systems. Professional audio and conference systems for communications of voice, sound and music complete the range.

Visit [boschsecurity.com](https://www.boschsecurity.com) for more information.
© Bosch Security Systems B.V., 2019
Modifications reserved