



SECURITY MINING SOLUTION BROCHURE

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AI-POWERED SURVEILLANCE SOLUTIONS FOR THE MINING SECTOR

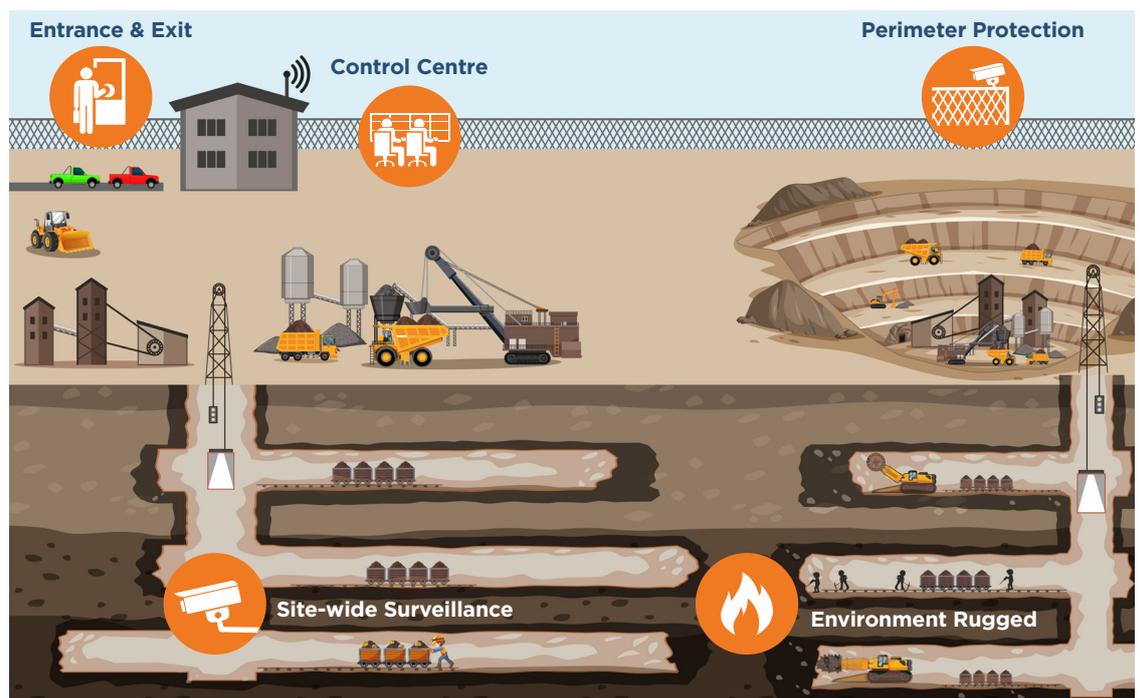
Mines are prone to intrusion, theft, as well as health and safety risks, all of which can result in huge losses. An efficient warning system is crucial for security personnel to quickly detect suspicious or unauthorised individuals and vehicles before they ever reach the perimeter, thereby offering early intervention.

A smart surveillance solution is critical to monitoring all aspects of a mine by focusing on human and vehicle features. Using deep learning algorithms, users benefit from the intelligent functions, simple configuration and inclusive products. This will transform regular monitoring to a whole new level.

A CCTV solution is the first step in addressing security issues at mines due to perimeter intrusion, theft and safety for employees and equipment. A CCTV solution allows users to reduce false alarms due to non-human or non-vehicle factors such as animals, weather and lighting conditions throughout the mine. This helps to increase control room operator efficiency and productivity, ensure employee safety and streamline the health and safety reporting process.

END TO END SURVEILLANCE SOLUTION

SS Telecoms has created a surveillance solution that addresses security monitoring from the perimeter to the most sensitive areas of the mine





Perimeter protection

Protection on the perimeter of the mine includes:

- Intrusion detection by smart cameras, including thermal and AI-enabled camera
- Link video and alarm to PTZ tracking
- AI cameras supporting human and vehicle recognition, and metadata.



Site-wide surveillance

No single part of the mine is vulnerable, with extensive and site-wide surveillance providing complete coverage through:

- High-resolution video surveillance and record
- AI technology which reduces false alarms and enables intelligent searching
- Mobile surveillance.



Rugged solutions for a challenging environment

The mining space is faced by a number of ambient environmental and operational challenges that require stringent compliance with health and safety regulations. SST's solutions provide:

- Smoke and fire detection;
- Explosion-proof and anti-corrosion camera options.



Entrance and exit

At both the perimeter and internal entrance and exit points, surveillance will assist in the following ways:

- Facial recognition and capturing the image of everyone who enters the mine
- Support blacklist and alarm
- ANPR (automatic number plate recognition) support to allow or block vehicle entrance/exit.



Control centre

The ability to view all coverage and incidents in a common venue is critical to allowing fast decision-making and response. The SST-designed control room incorporates:

- Support of remote video surveillance, playback, thermal temperature analysis and other functions
- Video wall support for several levels of video cascading.
- Powerful DSS VMS platform

BESPOKE SOLUTIONS FOR SITE-WIDE SURVEILLANCE

SST's site-wide surveillance solutions are customised to the mine's specific requirements and address various risks. These solutions address a number of challenges:

- Detecting perimeter intrusion – using thermal cameras – in day and night lighting conditions, along perimeter fence lines and open areas, and in outdoor no-light conditions.
- Tracking of vehicles and humans using smart tracking cameras based on alarm events. Monitoring activities within a vehicle with the use of in-vehicle surveillance technology linked to a control room.
- Reducing false alarms, from various sites, using deep learning AI technology that filters out false alarms.

HOW WILL SST'S SURVEILLANCE SOLUTIONS BENEFIT YOUR MINING OPERATION?

With the ability to be rapidly deployed, SST's AI enabled CCTV devices are designed to provide the video surveillance required on a constantly altering mine site topography. They offer a number of game-changing characteristics:

- Excellent cost-to-performance ratios.
- Agility
- Durability
- Flexibility
- Artificial Intelligence
- Manageability
- Reliability
- Scalability
- Security
- Real-time feedback

FLEXIBLE SOLUTIONS TO MATCH SPECIFIC NEEDS

SST offers:

- A scalable surveillance solution that allows video and metadata to be transmitted from various mine sites to a centralised command centre. This is the backbone of the entire CCTV solution.
- Fixed/mobile video streams from each of the mine sites connected on the backbone. Cameras from all parts of the mine can be connected back to the control room for centralised monitoring.

27 Greenstone Place, Greenstone Hill, Lethabong, 1609

+27 12 664 4644 | info@sstelecoms.com | www.sstelecoms.com