

Securing Communications Towers

Communication towers, infrastructure substations, fish farms, reservoirs and similar remote sites are often vulnerable to criminal activity that can interrupt services and compromise safety. These sites require an automated security solution to detect and alert security personnel to avoid or delay any possible threat.

Automated Security Solution

Cameras equipped with analytics can provide real-time live alerts to multiple security personnel. Live video can be pushed to central control, automated recording can be initiated, and pre-recorded messages can be sent to loudspeakers to ward off potential threats.



Challenge

The main challenge is ensuring the reliable and secure transmission of analytics, alerts, live video, and detected anomalies to multiple locations while also protecting against cyber-attacks.

Key Requirements

- **Fully Encrypted and Secure Connection:** Specialized devices protect the transmitted data utilizing any available network (4G and 5G optional).
- **Maintaining Information Integrity:** Ensuring data remains intact and secure until received at a control or monitoring center.
- **Continuous Availability:** Redundant connectivity ensures all information is available on demand.
- **Resistance to Extreme Conditions:** Equipment is designed to operate in harsh environmental conditions, withstanding extreme temperatures and adverse weather.
- **Unrestricted Scalability:** The system can add more cameras, sensors or other security devices for future needs.



Stable, secure, and private connections over the Internet



Solution Integration

Integrating specialized industrial hardware equipment with secure encrypted connections ensures continuous remote site protection. This includes video surveillance systems with secure remote access from virtually any location using direct network connections or 4G/5G. KBC solutions ensure data integrity, protect against unauthorized access or cyber-attacks and allow seamless management with real-time monitoring from anywhere. With KBC's advanced technologies, security is optimized, the risk of intrusions is reduced, and continuous operation is ensured.

Products

- **PoE Ethernet Switch:** Powers IP devices like cameras, loudspeakers and sensors. KBC offers industrial options tailored to the power needs of the IOT devices.
- **Encrypted Gateway with Mesh Capabilities:** Provides a secure connection that allows video streaming to corporate offices for monitoring and recording.
- **Solar Kits and Remote Power Systems:** If local power is not available at the site, these systems provide the power required for autonomous and continuous system operation.

By leveraging these technologies, remote sites can achieve enhanced security, reliability, and sustainability, ensuring continuous operation and protection against potential threats.

For more information and similar applications, please contact info@kbcnetworks.com