

# ESPERANZA MINING



SecurOS Protecting the largest Mines in Chile

*The ISS SecurOS Solution for Esperanza Mining : Proactive Security 24/7*

## KEY FEATURES

- SecurOS Premium
- Video Analytics
- Redundant Architecture
- Centralized Monitoring
- Centralized Storage
- Wireless Video Transmission

## BACKGROUND

The Esperanza Mining Company is located at Antofagasta region in Chile. It has three open mining areas and employs approximately 1500 people. It has both an administrative area and a production area. Typically, some of the challenges have included vehicle and machine related accidents, along with robberies and vandalism. Other challenges faced by Esperanza were the great number of entrances to the area with limited controls, as well as limited communication in the perimeter.

The company sought a centralized security system in which they could easily track people and vehicles entering and leaving the perimeter and have security personnel be able to instantly communicate any concerns to relevant personnel throughout the company.

The legacy system at the mines tended to issue false alarms, had limited overall capacity and no analytics to be able to assess people movements and processes. Entry and exit of vehicles, for example, and pertinent data, such as license plate information, had to be entered manually. One security staff described their system as “one dimensional”, simply recording activity, and not connected centrally so that the various departments—IT, administrative, operators, etc—so they could share information in real time.



## THE SOLUTION

After discussions with a number of vendors, they came away most impressed with the software offerings of Intelligent Security Systems (ISS) due in part to the built-in analytics it offered, its true open architecture, and overall functionality. Also, the fact of that ISS analytics are integrated natively into the software was appealing; as the idea of having to analytics at a later date and possibly through another vendor could have meant network downtime for the install and additional money spent on upgrades and customizations.

Esperanza knew it needed to upgrade its security system, but it wanted to do it in the most cost effective way possible, and to that end wanted to retain and drive maximum usage out of their analog cameras. Encoders were used for the analog cameras to give them the range and functionality of IP cameras. IP cameras were also purchased as part of the installation.

For the perimeter, wireless cameras were installed. Within the mines, and at the exterior areas directly outside the mines, the cameras run on a fiber optic system. The system is centralized so that multiple departments can easily share information. In addition, cameras with night vision have been installed so that vehicles and people can be tracked as they enter and leave at any time of day or night.

They also now have control over gates online, so that potential security risks can be addressed immediately and gates can be closed or opened at will. Gate alarms are also connected to the video cameras, so that potential issues can be viewed when an alarm sounds. ISS and its partners were able to demonstrate to the customer how they could utilize existing analog cameras while getting all the benefits of IP systems, such as clearer and wider range of images, and the ability of the cameras to analyze information and send alerts when appropriate.

## THE BENEFITS

Due to the SecurOS unified security system in place today, all relevant personnel are on the same page as far as the need to have entrances secured, and have a proactive system in place that can spot potential problems before they occur, whether it be a break-in or unsafe driving or a machine vulnerable to causing injury. Different departments easily share information, and if need be, outside law enforcement is alerted easily through the automated system.

The security system has been able to influence and have a positive impact on behavior, whether it be employees or intruders potentially violating the perimeter and/or conducting vandalism or theft.



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