

# Project Brief

## Santiago Metro



## Improved safety, security and speed on Santiago Metro system



### End User

Santiago Metro

### Country

Chile

### Vertical Market

Rail

### Partner

Diebold Bitelco Chile

### Technology Features

Fixed and PTZ cameras  
IndigoVision 9000 encoders  
Integrated alarm escalation

### Background

Passengers on the Santiago Metro system can travel more safely due to a new security monitoring system from IndigoVision.

More than two million passengers a day travel on the Santiago metro, the backbone of the Chilean capital's public transport system. Metro system management was keen to ensure the security of passengers, and worked with IndigoVision partner Diebold Bitelco Chile to find the ideal solution.

### Solution

The new system has helped Santiago Metro to improve response to incidents, and security monitoring has been enhanced. Security personnel have been able to track individuals responsible for crime and apprehend them. The movement of passengers can also be analysed, for safety and speed of transit.

Felipe Bravo Busta, Technology Sub Project Manager on the Metro system stated: "IndigoVision's solution has made for a safer Metro system in all senses – lower crime and less risk of accidents due to overcrowding."

IndigoVision won the contract due to the quality of the system it could provide. The ability to search recorded footage and easily identify incidents, and to keep the project within budget, were also important factors.

The system now covers 48 stations. All existing cameras were able to be reused by connecting them to the network via IndigoVision 9000 video encoders. There are 415 fixed and 406 PTZ cameras across the Metro network.

A key to the successful operation of the system was the decision to deploy a distributed and scalable IP Video solution. IndigoVision's distributed architecture replicates the configuration data throughout the system so that no central server is required.

Video is recorded onto 43 IndigoVision Windows NVRs (Network Video Recorders). Backup NVRs units are also in place.

An optical fibre network transfers data to Control Center, IndigoVision's state-of-the-art Video Management Software. Integrated alarm escalation ensures that all incidents are registered and relevant staff alerted to incidents in their areas.

### Benefits

- Distributed architecture offers scalability
- View hours of footage in seconds with thumbnails
- Alarm escalation ensures awareness of incidents
- Improved safety through passenger monitoring

