

## Colombia monitors highways to increase safety.

Security cameras cover more than 1000 kilometers on highways leading to Bogotá.



### Organization:

National Institute of Routes (INVIAS)

### Location:

Bogotá, Colombia

### Industry segment:

Transportation

### Application:

Highway safety, traffic monitoring

### Axis partners:

SIMS Technologies, S.A.S.,  
ISS

### Mission

Colombia is a country that has historically experienced armed conflict with outlaw groups and emerging criminal gangs. This has led the national government to consider investing in highway safety measures in order to prevent kidnappings and highway robberies.

As a result of the situation, the Ministry of Transportation, Ministry of Defense, and the National Institute of Roads (INVIAS) has created the National Highway Safety Program, which includes the installation of a video surveillance system on national highways.

### Solution

SIMS Technologies SAS, an Axis partner expert in this type of solution, assisted with the project. Based on the project's needs, they recommended and installed Axis network cameras, including AXIS Q6035-E Dome Network Cameras that capture full HDTV quality video.

All cameras are equipped with SecurOS VMS from ISS - Intelligent Security Systems, also an Axis partner, using the Enterprise license.

### Result

Through the implementation of this system, more than 1000 highway kilometers have been covered on routes leading from Bogota to Girardot, Villavicencio, Honda, Buenaventura, la Mesa Cundinamarca, and the Autopista Norte. The system provides support to the national armed forces and police, helping them react more quickly to criminal acts and reduce accident rates.

**“The solution we have implemented with Axis for the program has been positive, allowing us to provide better security and react more effectively to the events and incidents that happen on the highways.”**

Jose Leónidas Narváez, Director of INVIAS.

### Active population

INVIAS, through the National Highway Safety Program, answers to the Road Control and Operations Center (CCOV), which monitors transit and road infrastructures. They do this via a system of video surveillance cameras, equipment for automatic license plate detection, identification of roadside variables and critical access points, and connectivity to public/private road control centers as well as state security forces.

More than 1000 kilometers of roads are currently being monitored by 44 cameras along sections of national routes leading to Bogotá, Colombia's capital.

Traveler safety is maintained through a combination of technologies such as radar guns, information boards, radio communications equipment, hydrometers, breathalyzers, in-vehicle video cameras, license plate readers, patrol trackers, satellite communications and radio and data centers, and so on.

The software provided by ISS handles 100% of the cameras installed in Colombia's national territory, which allows INVIAS to monitor entry and exit points in major cities around the country, as well as critical areas throughout the road network. According to Daniel Mariño, Regional Director at Intelligent Security Systems, this has become a flagship project due to its impact on the safety of the population.

To enhance INVIAS' capacity to monitor all these points of interest, the control room has a video wall to display images from all cameras and manage them using SecurOS software.

SIMS Technologies SAS – the company responsible for the integration and implementation of the high-definition IP equipment – was selected for the project based on its experience providing Intelligent Transportation Systems (ITS) solutions, and its previous work as a national solutions provider.



Recent economic growth in Colombia means it is now one of the most important countries in the region. Its rapid growth has resulted in a sharp rise in the usage of national highways by automobiles and commercial transport vehicles, with nearly 600,000 tolls paid daily. This amount reflects a 5% annual increase in highway usage, which has contributed substantially toward the country's increased productivity and economic success.

