

## Parauapebas adopts Axis system to combat violence.

City government sees 60% drop in incidents in areas covered by cameras.



### Organization:

Parauapebas City Government - Pará

### Location:

Parauapebas, Pará, Brasil

### Industry segment:

City surveillance

### Application:

Safety and security

### Axis partners:

IR Tecnologia, Anixter, Digifort

### Mission

The city of Parauapebas, located in the southwest of the state of Pará, 645 km from the capital city of Belém, needed to increase safety for its 154,000 residents. Although it had the highest trade balance in Brazil in the first quarter of 2013 and the 33rd largest Gross Domestic Product in the country, not all the news in the city was good. Parauapebas needed to combat an increasing number of acts of violence in order to ensure the peace and safety of its citizens.

### Solution

After studying other cases of cities in the region where violence rates had fallen sharply after installing IP video surveillance systems, the Parauapebas city government launched a public tender to install 96 network cameras where there were most vehicles and pedestrians, such as the roads into and out of the city, and near banks, plazas, and other critical locations.

After the companies participating in the tender process were reviewed, IR Technology was awarded the contract and launched the project in cooperation with the city government and the military police technical teams.

### Result

When the first phase of the project was completed, which involved the installation of the first 31 cameras in Parauapebas, the city government noticed a considerable drop in incidents in the areas under surveillance. There were nearly 60% fewer incidents recorded. The implementation of this first stage led to arrests of drug dealers and people with outstanding warrants, along with the recovery of stolen vehicles.

Photo: Irisvelton Silva/ASCOM

**“The municipal video surveillance system has added value to the work of the police both in investigations and in traffic policing. The project was immediately accepted by the population and we’re already thinking about expanding the service.”**

Vicente Reis, general IT coordinator for the city government of Paraupebas

### First stage

As part of a local project called Digital City, which provides Internet access in Paraupebas' public plazas, the installation of the video surveillance system was begun in February 2013 with the adoption of 28 AXIS Q6032-E and 2 AXIS Q6034 Network Cameras; this latter model has HDTV 720p quality and day/night features, and is equipped to withstand harsh temperature conditions.

This phase also involved the setup of a monitoring room in a military police barracks. Operators monitor the system's 31 cameras 24 hours a day, 7 days a week, in this 100 m<sup>2</sup> room that houses two storage units, one server, six 21" monitors and two 47" screens for viewing situations requiring special attention.

All the cameras are powered via Power over Ethernet, and the system works over a 36 km fiber optic network installed specifically for the project, using Gigabit Passive Optical Network (GPON) technology. In total, the first stage cost R\$ 3 million (aprox. US\$ 1.3 million).

The project is also integrated with a social inclusion project – the team of operators in the monitoring room consists of individuals with special needs. Operators monitor the images in real time, coming from cameras that, thanks to their built-in intelligent systems, can trigger certain alarms that call the monitors' attention to specific situations. In addition to tracking the scenarios, the remote staff can also operate the cameras remotely, zooming closer or moving them around, for example.

### Expansion

Besides helping to combat and resolve cases of violence in the city, the solution has also had an impact in helping the military police solve traffic cases.

In the near future, the project expects to install 65 more cameras connected through over 84 km of fiber optic network. With additional investments of R\$ 2.4 million, the city plans to extend the project and further enhance the safety of the population.



Photo: Irisvelton Silva/ASCOM

Paraupebas is located in Serra dos Carajás, the largest iron ore reserve in the world.

