Customer Snapshot

BP Gas Pipeline, Azerbaijan



Azerbaijan is rich in gas. In fact, in some locations there are spontaneous, continuously burning gas fires emanating from fissures in the ground.

British Petroleum manages the largest of the gas extraction plants in the country and it operates the extensive pipeline network to the ports from which the gas is exported.

Key Challenges

The main problems facing the operators of the pipeline were:

- Detecting if someone had left an object near the pipelines which might damage them
- Detect intruders who might wander too close to the pipeline and damage it.
- Detect intrusion theft and possible sabotage at unmanned pumping stations.

It was important for them to differentiate between authorized personnel accessing the pipeline and their unmanned facilities for maintenance purposes and intruders who may wish to cause harm.

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The iOmniscient Solution:

iOmniscient provided BP with a system that could detect intruders at distances of around 200m and detect if they left an object at or near the facilities. But it did much more.

Using its internationally patented IQ Hawk technology, the system automatically zooms in on the intruder and can automatically detect the person's face. It can then recognize whether the person is a member of their team or an intruder. If it cannot see the face, the system can check whether the person is wearing BP's authorized safety gear as in their case, intruders rarely had access to this.

Unlike traditional PTZ cameras which can zoom in on a single intruder, the IQ Hawk system uses a single camera with a digital zoom to address multiple intrusions simultaneously.

In addition to protecting the pipeline, the iOmnsicient system was used to manage vehicular access to the plant and traffic within the very extensive petrochemical complex. The system detected and made the authorities aware of:

- vehicles that parked in inappropriate places
- vehicles that travelled in the wrong direction on one way roads
- vehicles that exhibited excessive speed.

About iOmniscient: iOmniscient is the world's oldest video analytics company having pioneered the use of Artificial Intelligence for Computer Vision before it became fashionable. It has implemented systems in over 70 countries and its technology is protected by over 70 interlocking patents

The company's focus is on addressing customer problems by solving entire use cases and its systems minimize the infrastructure required to the point where it can be less expensive to implement an Intelligent system from iOmniscient than one with lesser intelligence.

The solutions provided by iOmniscient are a subset of the IQ Oil and Gas Suite of products which provide comprehensive Data Analytics, Safety and Security to address the needs of the petrochemical industry.