VIVOTEK's Cameras Provide Security Around Toll Stations in India

Background

A reliable surveillance system plays an important role in the management of toll station operations. Data such as traffic volume, fare collection and license plate numbers need to be clearly recorded for inspection when requested. Besides, whenever unexpected incidents occur, video footage can be the most valuable evidence to check. Late in 2012, International Road Dynamics Inc. (IRD), the world-leading traffic management solution integrator, conducted an Indian toll station project for which high-quality VIVOTEK products were chosen.

International Road Dynamics Inc. (IRD), which has operated internationally for more than 30 years, is a prestigious integrator in the field of ITS (Intelligent Transportation Systems). The company's area of specialization includes advanced traffic control and toll management technologies. For this project, IRD sought high-quality cameras with great flexibility and interoperability with its software for securing the smooth operations of all toll stations included in the project. After consultation with EPhton Technologies, the SI partner of VIVOTEK's India distributor AUTOCOP, VIVOTEK's IP cameras, with their superior image quality, capacity to cope with challenging environmental conditions, advanced day-and-night functionality, and excellent compatibility with third-party software, were adopted.

Solution

For this project, 800 of VIVOTEK's IP cameras, including 700 IP8332, 50 FD8136 and 50 IP8331, were deployed to provide security at approximately 50 toll stations.

For surveillance of toll station access lanes, IP8332 and IP8331 bullet-style outdoor network cameras were installed. Both are designed with an IP66-rated housing and a weather-proof casing to shield them from harsh weather conditions and withstand dust. In order to adapt in real time to changing light conditions and secure superb image quality around the clock, the IP8331 is equipped with a dual-band lens and built-in IR illuminators with an effective range of up to 10 meters, while the IP8332 features a removable IR-cut filter as well as IR illuminators effective up to 15 meters, enabling the clear imaging of license plates and vehicles. Moreover, both cameras support tamper detection. Actions such as blockage, redirection, and spray-painting can be detected and timely alerts provided to administrators.

As for monitoring of the toll booths themselves, VIVOTEK's FD8136, the world's smallest 1-megapixel network fixed dome camera, was chosen. With easy installation, Power-over-Ethernet (PoE) support and real-time H.264, MPEG-4 and MJPEG Triple Codec compression technology, FD8136 is an ideal option for a wide range of indoor surveillance applications. Mounted inside a toll booth, the wide view angle of FD8136 can capture clear images of drivers in all sizes of vehicles. In addition, with selectable focal lengths, FD8136 provides flexible viewing angles, making the images of drivers and passengers be highlighted if needed.

Customer Feedback

Vishal Rajput, Head of India Operations at IRD Inc. said, “We tested VIVOTEK cameras and found them to be effective for us both technically and commercially. The results delivered in the field were also precisely as promised. The support from EPhoton Technologies on VIVOTEK has been excellent whenever we needed it. We are delighted to have VIVOTEK’s products from EPhoton Tech as the default choice for surveillance solutions in all our upcoming projects for LPC, LPR, Booth Security and ANPR.”