Project reference | Liefkenshoektunnel, Belgium

Let's siqure your world!

Siqura is part of TKH Security Solutions, a division of the TKH Group. TKH Security Solutions offers a wide range of systems for access control, surveillance, intrusion detection and video management.

TKH GROUP | TKH SECURITY SOLUTIONS

SIQURA SURVEILLANCE SOLUTIONS

www.siqura.com

TKH GROUP | TKH SECURITY SOLUTIONS

Project reference

Liefkenshoektunnel, Belgium

The port of Antwerp ranks among the world's largest sea ports. Each day, more than half a million tons of cargo enter and leave its docks. As a result, traffic on connecting roads can be very heavy. To alleviate the pressure on the city's ring road, the 1,374-metre-long Liefkenshoektunnel was constructed. This toll tunnel is the second of three sequential road tunnels running under the river Scheldt and the port installations on its banks.

opened on 10 July
1991

2x2 parallel

1,37 km long

city with most inhabitants of Belgium

7,348,095

tunnel takes its name from 4 centuries old fort

Customer
NV Tunnel Liefkenshoek (Belgium)

Distributor
Elbex Technologies bvba

Systems integrators
Imtech Traffic & Infra, VHP

Technology
Fiber-based video network

Market
Transportation - Traffic

Challenge
Boosting the safety level of Antwerp's main toll tunnel

Solution
Surveillance cameras with high image quality, automatic incident detection (AID), fiber components

The challenge
Tunnels are real bottlenecks. Even the smallest of disruptions may cause severe traffic jams. After a series of accidents, the management of Antwerp's Liefkenshoektunnel decided to review its video surveillance system. Several flaws were found: the system lacked automatic incident detection (AID), the cameras weren't capable of zooming in on events, oncoming traffic couldn't be monitored and there were no surveillance cameras in the emergency corridors.

The solution
Together with distributor Elbex Technologies and systems integrators Imtech Traffic & Infra and VHP, Siqura implemented a cost-effective solution designed to take advantage of the tunnel's existing infrastructure.

To deal with the tunnel's low-light conditions, Siqura's BC14WDR camera was selected. This box camera boasts a 1/3" Pixim DPS Seawolf imager with super-wide dynamic range. Unlike older analogue CCD image sensors, the Pixim DPS Seawolf doesn't smear, bloom or generate colour noise. That makes it the perfect candidate for video content analysis (VCA) applications, such as automatic incident detection. The vandal-resistant FD12, a fixed dome camera, was implemented in the emergency corridors. Its integrated varifocal lens with backlight compensation and automatic day/night functionality provides high-resolution (520 TVL) pictures. Siqura's Up-the-Fiber digital video receivers and VAD optical multiplexers were chosen for their high-quality signal transmission.

Extra cameras on strategic locations, superior image quality and automated incident detection: these three elements have greatly improved the safety situation of the critically important Liefkenshoektunnel.

SIQURA
SURVEILLANCE SOLUTIONS