

SUCCESS STORY

www.baslerweb.com

Basler scout GigE Cameras Applied in Automatic Under Vehicle Inspection System (AUVIS)

Customer

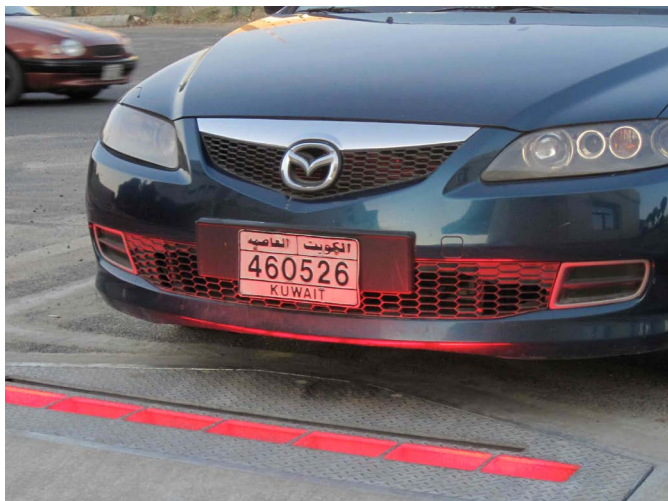
- Name: Gatekeeper, Inc.
- Location: Various locations in the US, Europe and Asia
- Industry: Physical security, access control

Application

Today, physical security is more important than ever. Security screenings must be effective, efficient and fast to minimize disruption to persons and/or operations. Facilities with vehicle access often require surveillance installations to carefully identify, search and authenticate vehicles, drivers, passengers and cargo.

Vehicle undercarriages are the most difficult part to inspect because they are often very complex, they vary widely from car to car and, if nothing else, they are often very dirty, rusty, etc, making it harder to identify a possible threat. Technology tools from mirrors-on-sticks, cameras-on-sticks, running video and line scanners all require the human operator to observe images of the under carriage and “see” if anything is different that might pose a threat. Studies and tests have shown that humans are not reliable in monitoring the same things for a long time.

The inspection of vehicles should be executed well before they get close to humans or facilities to prevent danger to life and property when a threatening situation is given.



GKH-3011 Vault Version

Solution and Benefits

Gatekeeper designs and manufactures security products that automatically identify, search and authenticate vehicles, their drivers, passengers and cargo inside. The AUVIS (Automatic Under Vehicle Inspection System) uses hi-resolution imaging and digital image processing to create vehicle “fingerprints” much like the FBI uses human fingerprints. Basler scout GigE cameras are used in the AUVIS systems. AUVIS automatically scans the vehicle, creates a fingerprint image, then finds the matching fingerprint in the database of known safe vehicles and “searches” the vehicle using Automatic Foreign Object Detection algorithms. If any anomalies, e.g. hidden objects or suspicious modifications are detected, the system draws a bright red ring around the suspicious object on the inspection screen and sounds an audible alarm that tells the security personnel to take further action before allowing the vehicle to enter. The built-in Automatic License Plate Reader “reads” the license plate number and determines if the plate matches the vehicle to guard against a hostile vehicle using a plate stolen off a vehicle used by a known “trusted” employee or visitor.



GKH-2011 Embedded Version

Gatekeeper products are being used to protect governmental facilities, embassies, airports, military bases, nuclear power stations, border crossings, oil facilities, financial institutions and hotels in the United States, Russia, Europe, Middle East/ Persian Gulf and Asia.

The Basler scout GigE cameras have proven to be particularly well suited for such an application. The flexible GigE interface is easy to adapt to any application and allows cable lengths up to 100m, which are helpful to bridge the distance between inspection system and the PC.

The Basler scout offers a high sensitivity and an excellent image quality. It is known for its reliability and robustness. The camera is 100% calibrated and quality checked in the factory - good prerequisites for a demanding application in a rough environment like the under vehicle search system.

Technologies Used

- Basler scout GigE camera (scA640-74gm)
- Proprietary software

More Information

www.gatekeepersecurity.com



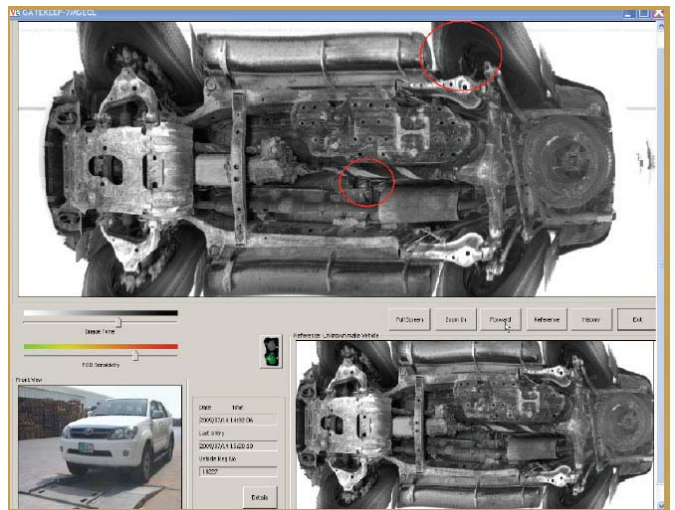
Basler scout



GKH-TR11 Train Version



GKH-1011 Mobile Version



AUVIS Operator Graphical User Interface

Basler AG

Germany, Headquarters

Tel. +49 4102 463 500

Fax +49 4102 463 599

bc.sales.europe@baslerweb.com

www.baslerweb.com

USA

Tel. +1 610 280 0171

Fax +1 610 280 7608

bc.sales.usa@baslerweb.com

Asia

Tel. +65 6425 0472

Fax +65 6425 0473

bc.sales.asia@baslerweb.com

