



GKR-2011 AUVIS (Embedded - Dual View) Automatic Under Vehicle Inspection

Technology

Gatekeeper's patented AUVIS technology rapidly scans a vehicle's undercarriage and automatically:

Identifies the vehicle's make and model

Detects any foreign objects or modifications

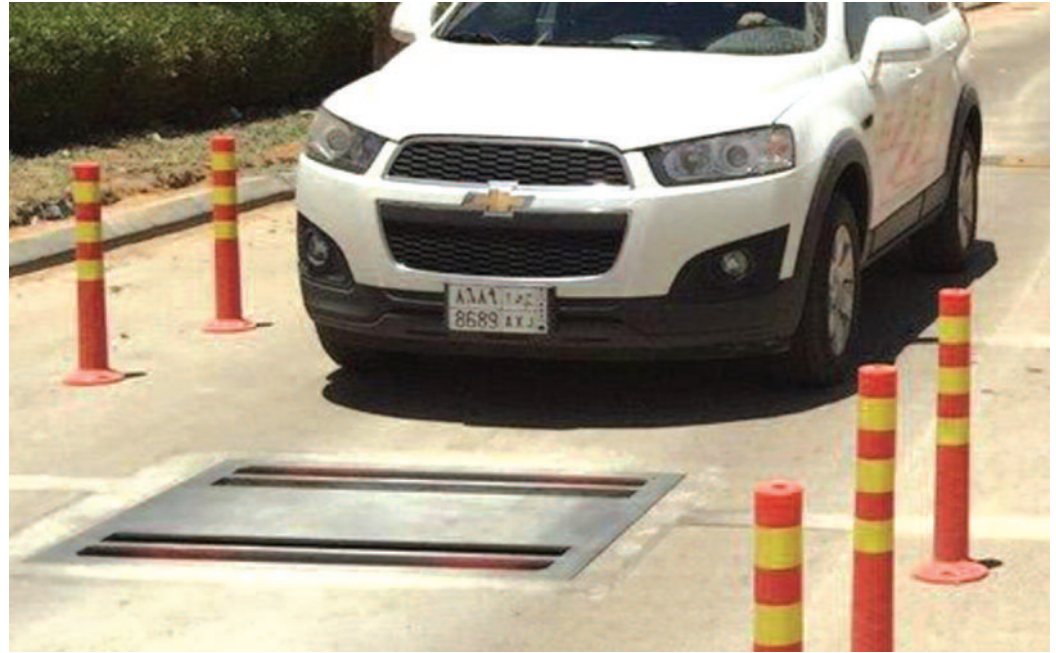
Highlights these changes

Alerts personnel of any threats – all in a matter of seconds.

Applications

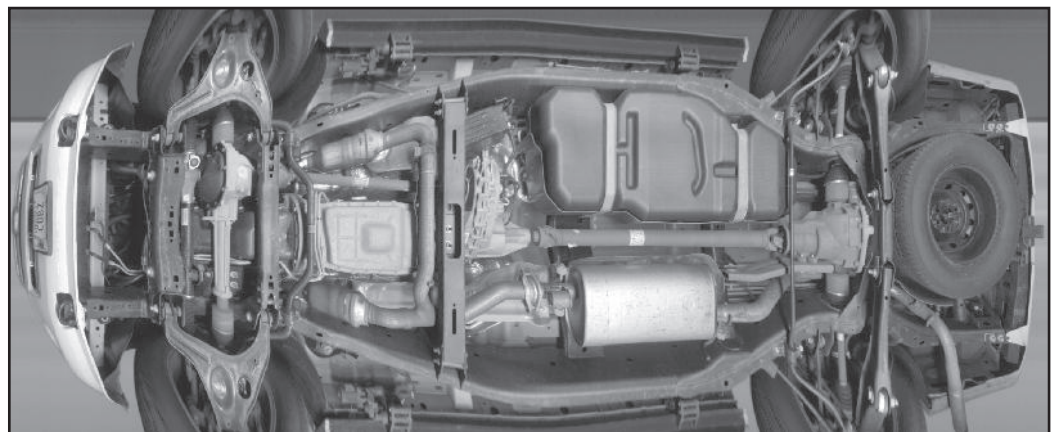
Permanent, non-intrusive installations at:

- military checkpoints
- airports
- seaports
- hotels
- government buildings
- royal palaces
- nuclear power plants
- chemical companies
- border crossings



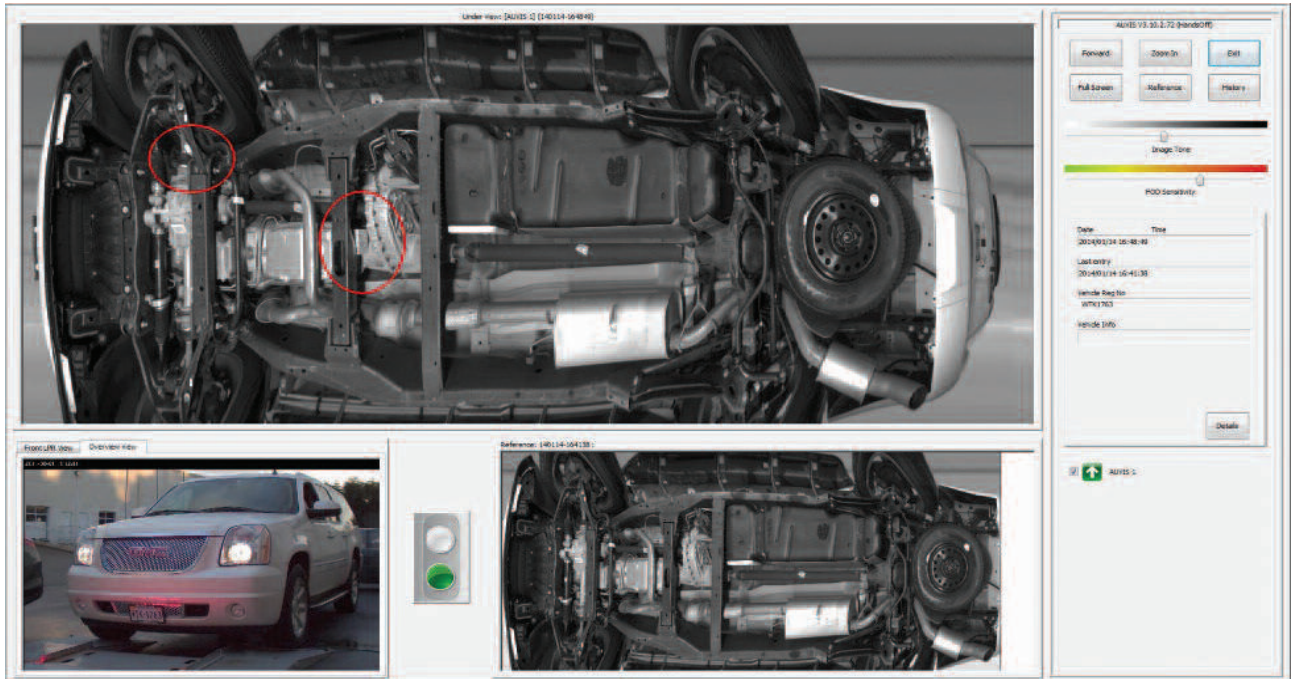
The GKR-2011 Automatic Under Vehicle Inspection System (AUVIS) is the embedded solution for the fully automatic identification of foreign objects or modifications to a vehicle's undercarriage. Vehicles drive over the dual-view scanner while Gatekeeper technology compiles two high-resolution, virtual 3-D digital images of a vehicle's undercarriage to create the vehicle's digital "fingerprint." Two views make it easier to see any threatening objects that may be hidden on top of an axel or crossbeam. An overview/driver camera captures the normal view of car/driver and displays this on the high-resolution touch screen.

After the vehicle has cleared the scanning device, it only takes 4 seconds for Gatekeeper's Automatic Foreign Object Detection software to automatically compare the subject vehicle's undercarriage to a safe vehicle (stored in the database) and display both on the screen. The system then immediately identifies any foreign objects or modifications to the undercarriage by circling them with a red ring AND activating an audio and/or visual alarm.



One of two high resolution, virtual 3-D digital images of the undercarriage

Precise... Fast... Effective



Operator Screen/Undercarriage Views

The operator screen displays the overview/driver image in color. The undercarriage views are displayed in monochrome. As with medical imaging (x-ray, CT scan, MRI), monochrome provides higher resolution and more accurate images than color. Since Gatekeeper's automatic systems rely on computers to analyze the images and not the human eye, monochrome is superior to color.

Why Gatekeeper?

- ✓ **AUTOMATIC** – patented scanning technology sees what the human eye can't see - assists guards to "look here" for fast screening of vehicles
- ✓ **INCREASED VISIBILITY PROVIDES GREATER SAFETY** – patented dual 60° angled views see more hidden areas than single-view 90° systems
- ✓ **RELIABLE** – IP68 rated scanning unit delivers all-weather performance, more up time & lower maintenance costs
- ✓ **VERSATILE** – scans cars, vans, buses, trucks & trains – day or night – at any speed (1-30 Kph)
- ✓ **EASY INTEGRATION** – secure TCP/IP interfaces and SDK make connecting to other systems fast and cost effective
- ✓ **GlobalReach™ TECHNICAL SUPPORT** – service centers in USA, Mexico & U.A.E. backed up by 24/7/365 internet access to factory support engineers
- ✓ **US DEPARTMENT OF DEFENSE (DIACAP) ACCREDITED** – AUVIS system software meets the highest requirements for secure network performance

Components

Embedded platform

IP68 rated dual-view scanning system – includes AUVIS image stitching software and automatic change detection software

Database – supports watch lists for wanted vehicles, vehicle verification, license plate registry, event logs, etc.

Networking capability – connects LAN/WAN remote units nearby – across town – around the world

Integrated devices – DriverCam cameras, traffic lights, etc.

53 cm Operator Terminal – daylight readable, LED back lit, touch screen

System Integration and Additional

Capabilities The system can be integrated with weigh-in-motion scales, biometric systems (fingerprint, facial recognition), license plate readers, RFID, Smart Card readers, barriers (road blockers, tire claws, bollards, etc.) and many other entry control point technologies.



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