

3DUVIS

UNDER VEHICLE INSPECTION SYSTEM

Foreign objects detection and automatic comparison

November 2014

At a glance

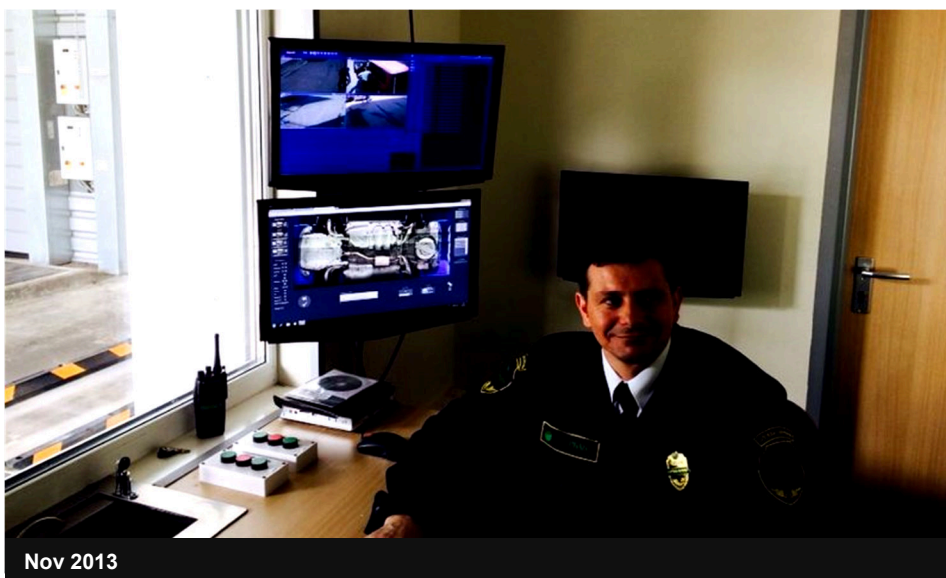
Intelli-Scans' 3DUVIS is a high-tech, innovative product designed for the field of physical security and loss prevention. The system enables operators and security personnel with a clear view of passing traffic's undercarriage.

In any weather conditions, 24/7, the system produces a full, clear, colour, undistorted image of passing traffic's undercarriage. The system is capable of scanning private cars, pickups, lorries, trucks, semi-trailers and full trailers (supporting up to 4.5m vehicle's width and up to 13,200 kg/axle weight) with traffic flow at a speed of up to 35 km/h.

With its open architecture the system easily integrates to peripheral equipment including gates, bollards, traffic lights, vehicle registration recognition, as well as to third party software

“At the Sberbank in Moscow, With Intelli-Scan’s technology we have managed to dramatically increase our gates intake. We brought it down from 2:30 min inspection process to 12 sec per truck, it works like a magic..”

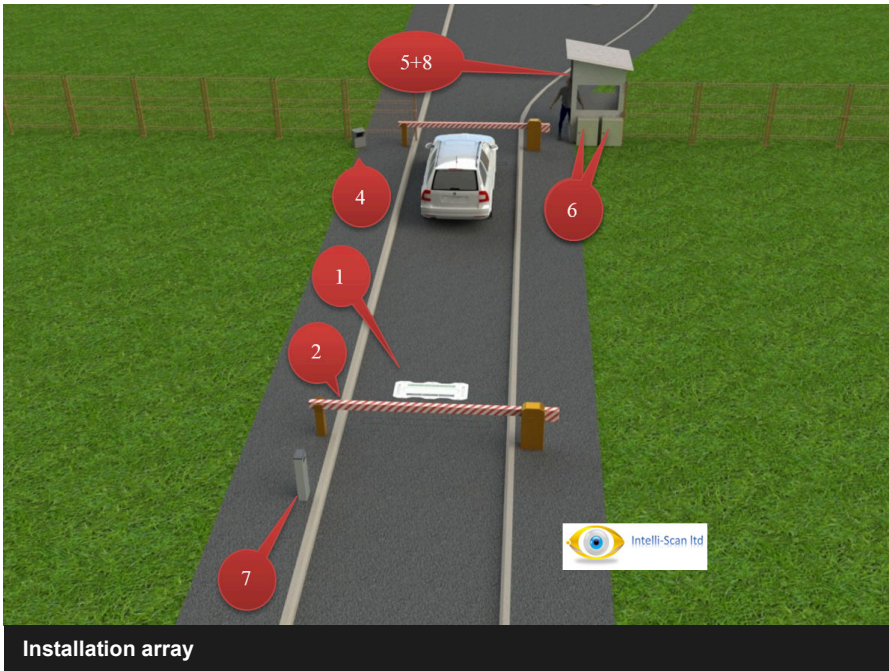
- Natasha Koblanov



Nov 2013

System's advantages

- Graphic easy to use
- Compact, easy installation
- Zero maintenance
- Works in all weather
- Most competitive price on the market



Installation array

Installation Array

1. Scanner
- 2+3. Arm gate + magnetic loops.
4. License Plate Recognition camera
5. Operator PC + inspection post
6. Junction & control box + processing unit
7. Videocom or side view camera
8. Side view camera

Mode of operation

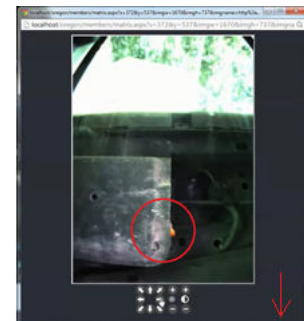
Workers, visitors, guests or suppliers approaching the gate will pass over the optic scanner. Before arriving to the closed gate (bollards) vehicle's undercarriage colour image with vehicle license plate number (optional) and vehicle's side view is immediately sent to security personnel's screen for inspection. The operator can be closely located at gate, or can be located at a main security room in the secured facility. After inspection and when no danger is present, the bollards are lowered / gate is opened and the vehicle can safely enter the secured facility.

The system comes with embedded watch list (license plate number - LPN), into which security personnel can enter numbers of suspicious vehicles or list of vehicles for which their access to the premises is denied. On arrival of such a vehicle, the operator gets relevant notification. The system also comes with guest-car table, where front desk can enter guest's LPN for acceleration of access procedure for known guests and VIP.

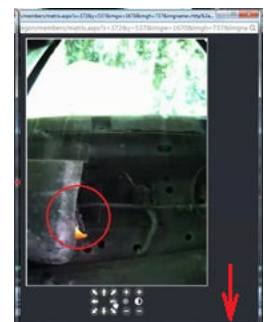
3D view—virtual PTZ camera

The system produces an orthogonal image of vehicles undercarriage. In many cases a threat can be concealed in areas which are not exposed to bottom view. To enable Intelli-Scan's customers with a better security level and enhanced inspection capabilities the company has developed its unique virtual camera with PTZ functionality. Intelli-Scan's system enables the user with a view into cavities, over hoods and over beams.

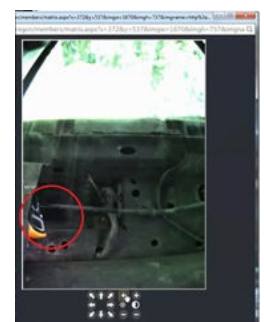
An example for threat reveal is shown on the right pane



Reveling a threat—Pan step 1



Reveling a threat—Pan step 2



Reveling a threat—Pan step 3

Integrators Benefits

Best pricing

Stock availability

Lowest shipment cost

Fast and efficient installation

Advanced warning for failure and maintenance

Full training and technical support

Presale assistance and help with tenders

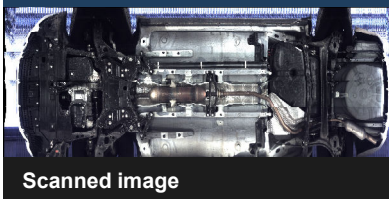
Best product, features and materials

Wide span of product range

Volume based discount

Multi language support

24/7 call center



Graphical user interface screenshot. Low maintenance, browser based, no need for software installation

Main features and advantages

- Provides a clear image of passing traffic's undercarriage
- Scan private cars, pickups, lorries, trucks, semi-trailers and full trailers (to support up to 4.5m vehicle's width, up to 40m length and up to 13,200 kg/axle weight at vehicle speeds up to 35km/h)
- Extract Images within three seconds from vehicle pass over scanning array
- Present total vehicle's footprint in one image on security personnel's screen
- Allow user to zoom into any suspicious area by a simple graphic interface
- Store the acquired images into DB and associate it to vehicle's license plate number, time stamp, operator's identity and checkpoint ID
- Automatic vehicle classification (make and model)
- Automatic comparison to vehicle's history and to make/model
- Easy track of changes made on vehicle's undercarriage by comparing to vehicle's history or manufacturer info
- Enable connectivity of multiple scanners with one remote center (for large facilities such as ports and airports)
- Enable swift integration of a scanning solution into customer's existing command and control systems (SOA based software architecture – web services)
- Low shipment price (shipment size 173 X 80 X 70)
- Low installation price (minimal amount of installation work or excavation)

Technical Spec

Physical dimensions			
	Size	160x65x28	cm
	Weight	<30	kg
Image quality			
	Resolution	>5,000 DPI	Can show sub mm object
	Type	Color	
	Day/Night	Both	Embedded illumination
Vehicle type			
	Max Vehicle Weight	>13.2 Tonne per axle	
	Max Vehicle Length	40 m	System can be manually controlled for longer vehicle
	Max Vehicle Speed	35 km/h	Optional 270 km/h
	Max vehicle Width	350 cm for truck	180 cm for private
	Max Traffic Flow Rate	240 vehicles/hour	On manual inspection
Environmental			
	Water	IP67	Optional IP68
	Temp	-10°C + 55°C	Optional -45°C + 85°C
	Vibration	Fit for vehicle drive	
	Humidity	0-100%	Condensed and non-condensed
Storage and DB			
	Image location	Local or NAS	
	DB type	SQL	
	Storage size	1,000,000 images	
Power source			
	Inlet	220/110 AC 24 VDC	

About us

Since its establishment in 2004 Intelli-Scan focuses on image processing based solutions for the security, loss prevention and industrial applications. Intelli-Scan utilised its superior knowhow and global presence to deliver the World's best under vehicle inspection technology. UK based, with offices in Turkey and India, Intelli-Scan ensures best delivery time and support to its customers and business partners. The company has successfully deployed projects around the world with installations in Army bases, National Banks, Commercial Companies and Private Institutions.

Contact Us

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