dunamis emporium

About NuvoScan™-3D - Automated Under Vehicle 3D Scanning System

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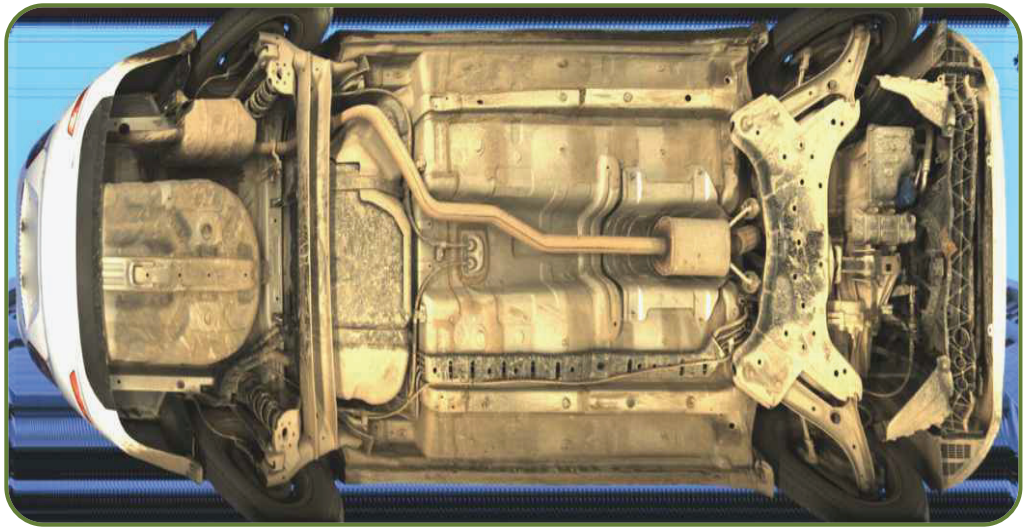
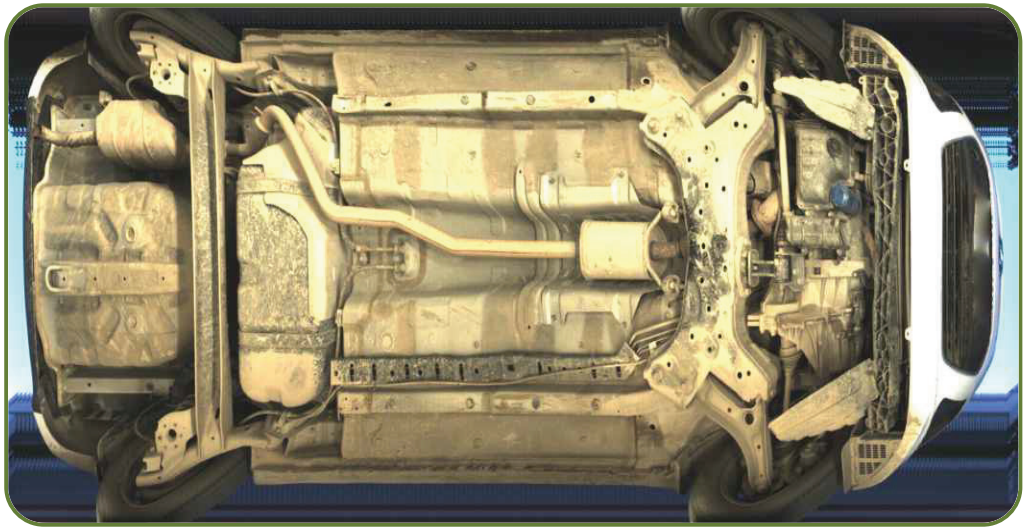
NuvoScan-3D, is an advance automated 3D viewing Under Vehicle Scanning System based on the area scan imaging technology. It provides an optimum solution to scan, inspect, and digitally document the under side of the vehicles. The system is equipped with dual high-resolution cameras that help in capturing the 3D color view of any vehicle passing over the UVSS. Hard- to- view areas are easily scanned with this dual camera setup within fraction of seconds. Two important features available in the system are 'real time 3D morph' of the underside which allows operator to see multiple angular views of the underside very quickly and 'compare image' which helps in comparison of the captured view of the vehicle with the image of the similar model of the vehicle fetched from the database.

LEFT COMPOSITE VIEW

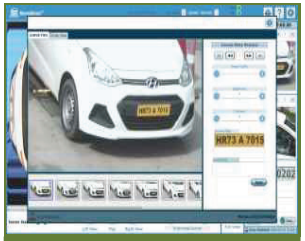


RIGHT COMPOSITE VIEW



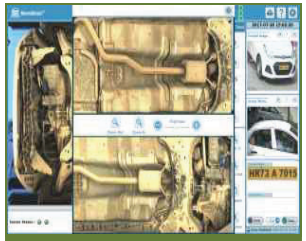
Key Features

- Dual imaging feature **(3D)** from left & right view in order to identify any possible threat
- High resolution COLOR left and right composite images of the vehicle's underside
- Novel morph creation feature to see real life 3D video of the underside
- Hard-to-view areas can be scanned easily through **3D UVSS** system
- Stop & Go Image Formation doesn't affect the image quality
- Dual LED array for better illumination
- Zoom facility upto 25x of the composite image to facilitate a closer view of niche areas
- Able to compare both (left & right) view with the help of license plate/type database
- All weather proof IP-67 certified underground enclosures
- Air cleaner mechanism for all weather operation
- Multilingual Graphical User Interface (GUI)
- CE,ISO certified syste



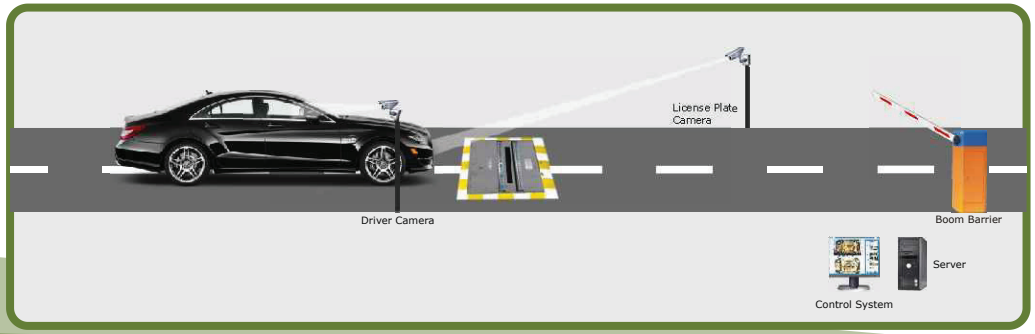
AUTOMATED LICENSE PLATE READER

IMAGE COMPARISON



ZOOM IMAGE

System Architecture



Technical Specifications

		NuvoScan-3D
Main Camera	Imager Resolution Video Format Certifications Power	CMOS AreaScan Sensor 1920x1 200 pixels GigE CE compliant 12 V to 24 V DC
License Plate Camera	Imager Resolution Power	CMOS Color Area Sensor 1 MP or better 12 V DC
Mechanical Structure	Material	Structural steel with checkered stainless steel on top
Environmental Protection	Underground Camera & Light Enclosures	IP 67
Control Unit	Processor RAM Hard Disk Capacity PCI/PCIe Slots Display Monitor	Intel core i7 3.2 GHZ 8 GB or better 1 TB or better 2 PCI/PCIe Slots 24" Color TFT or better
Sensor Unit	Type Power Requirements Output	Inductive Loop Sensor 220 V AC NO/NC Relay Type
Lighting Unit	LED Light Unit	Input Voltage 220 V AC
Unit dimensions (lXbXh)		1820 X 1450 X 900 (in mm)
Installation and Mounting		Fixed: Underground Installed
Speed Limit		Upto 25 Kmph
Load bearing capacity		40 Tonnes (GVW)
Operating Temperature		-10 to 55°C (with suitable heating & cooling facility)

Optional Features

- Automated License Plate Reader
- Driver Image Capture Module
- Integration with Systems like (Boom Barrier, Tyre killer, Bollard)
- Multilingual Graphical User Interface (GUI)

*specifications are subject to change without prior notice

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