

## **NuvoScan™** - Automated Under Vehicle Scanning System

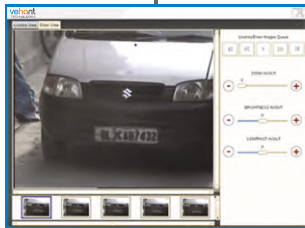
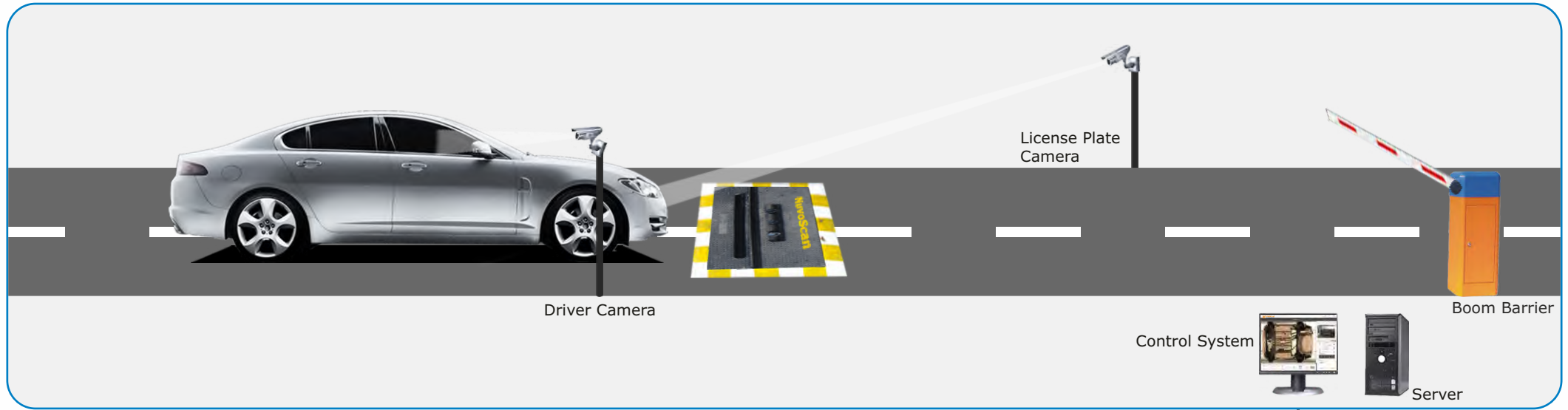


### **About NuvoScan™**

NuvoScan is the advance automated **COLOR** Under Vehicle Scanning System (UVSS). NuvoScan is based on the latest and highly advance area scan imaging technology. It uses the combination of high end electro-mechanical assemblies, cameras, illuminators and sensors besides NuvoScan's Area by Area image composing software. The visual information captured is synthesized by the system and subsequently produce a high quality composite underside image of vehicle to facilitate efficient viewing and detection of any potentially harmful object that may be attach to the under belly of the vehicle.

NuvoScan gives a seamless composite image without distortion, even if vehicle halts completely on top of the UVSS.

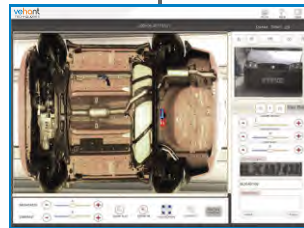
## System Architecture



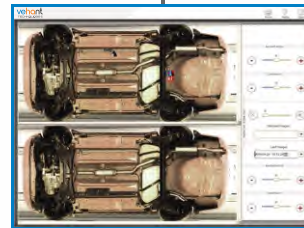
**AUTOMATED LICENSE  
PLATE READER**



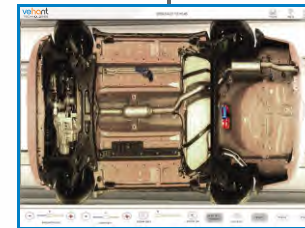
**DRIVER IMAGE VIEW**



**COMPOSITE IMAGE  
SCREEN**



**IMAGE COMPARISON**



**COMPOSITE IMAGE  
FULL SCREEN**



**AUXILIARY CAMERA**

## Key Features

- ▶ Area Scan image composing technology for complete imaging of underside, even if vehicle halts completely on top of the UVSS
- ▶ Auxiliary camera(s) for 'Hard-to-view' areas
- ▶ High resolution composite **COLOR** image
- ▶ Integrated Automated License Plate Reader (Optional)
- ▶ Multilingual Graphical User Interface (GUI)
- ▶ Integrated Driver Image Capture (Optional)
- ▶ Remote/distance viewing and monitoring (Optional)
- ▶ All weather proof IP-67 certified underground enclosures
- ▶ Air cleaner mechanism for all weather operation
- ▶ CE,ISO certified system

## NuvoScan™ Installations

- ▶ Defence armed forces
- ▶ Petroleum sector
- ▶ Prominent five star hotel chains
- ▶ Renowned international airports
- ▶ Esteemed Govt. offices
- ▶ Prestigious private sectors
- ▶ Indian railways
- ▶ Oil & Gas Sector
- ▶ Embassies
- ▶ Reputed Banks and financial companies

# Technical Specifications

## NuvoScan™ (E)

## NuvoScan™ (H)

<b>Main Camera</b>	Imager Resolution Video Format Certifications Power	CCD/CMOS AreaScan Sensor 1280x1024 pixels GigE CE/FCC compliant 12 V to 24 V DC, < 10 W	CCD/CMOS AreaScan Sensor 1280x1024 pixels GigE CE/FCC compliant 12 V to 24 V DC, < 10 W
<b>License Plate Camera</b>	Imager Resolution Power	CCD/CMOS Color Area Sensor 640x480/704x480 pixels 12 V DC	CCD/CMOS Color Area Sensor 640x480/704x480 pixels 12 V DC
<b>Auxiliary Camera*</b>	Imager Resolution Power	NA NA NA	CCD/CMOS Color Area Sensor 640x480/704x480 pixels 12 V DC
<b>Mechanical Structure</b>	Material	Structural steel with checkered stainless steel on top	Structural steel with checkered stainless steel on top
<b>Environmental Protection</b>	Underground Camera & Light Enclosures	IP 67	IP 67
<b>Control Unit</b>	Processor  RAM Hard Disk Capacity PCI/PCIe Slots Display Monitor	Intel Core-i3 2.4 GHZ or better 1 GB or better 250 GB or better 2 PCI/PCIe Slots 20" Color TFT or better	Intel Core-i3 2.4 GHZ or better 2 GB or better 500 GB or better 2 PCI/PCIe Slots 20" Color TFT or better
<b>Sensor Unit</b>	Type Power Requirements Output	Inductive Loop Sensor 220 V AC NO/NC Relay Type	Inductive Loop Sensor 220 V AC NO/NC Relay Type
<b>Lighting Unit</b>	LED Light Unit	220 V AC, 120 W	220 V AC, 120 W
<b>Unit dimensions (IXbXh)</b>		1820 X 750 X 750 (in mm)	1820 X 1310 X 750 (in mm)
<b>Installation and Mounting</b>		Fixed: Underground Installed	Fixed: Underground Installed
<b>Speed Limit</b>		Upto 20 Kmph	Upto 20 Kmph
<b>Load bearing capacity</b>		40 Tonnes (GVW)	40 Tonnes (GVW)
<b>Operating Temperature</b>		0 - 55° C	0 - 55° C

## Optional Features

- Auxiliary Camera
- Automated License Plate Reader
- Driver Image Capture Module
- Premises Security Systems (Boom Barrier, Tyre killer, Bollard)
- Multilingual Graphical User Interface (GUI)



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\*specifications are subject to change without prior notice