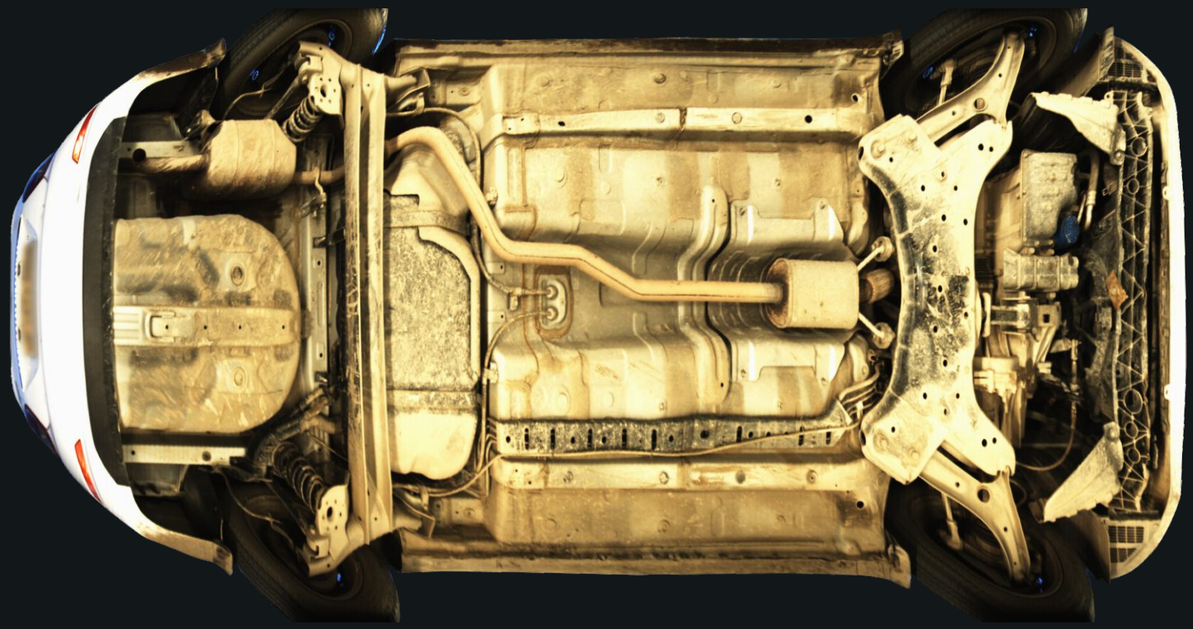
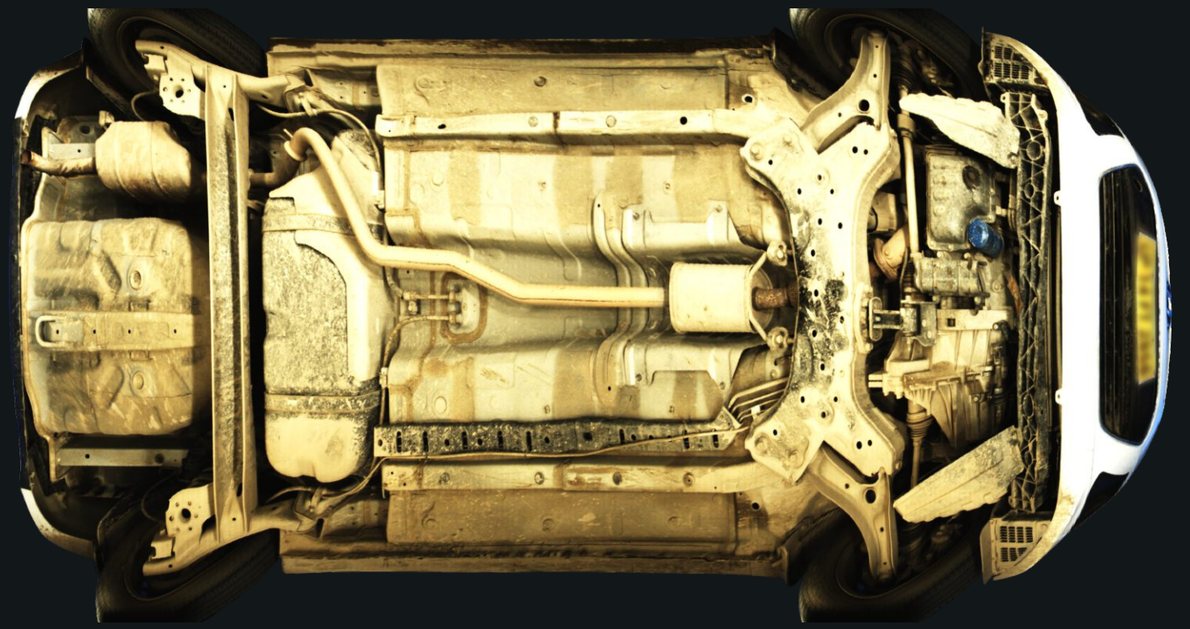
Under Vehicle 3D Scanning System



Left View



Right View

About Vehant Technologies

Vehant Technologies is a leading Artificial Intelligence focused company that develops state of the art Security Screening Solutions, Smart & Safe City Solutions and Enterprise Analytics Solutions that match the global standards. All our solutions are continuously leveraging towards technological innovations to solve various safety & security related issues. All of our products are designed, developed & manufactured in India & Europe to meet international standards, features and quality.

Why Vehant ?

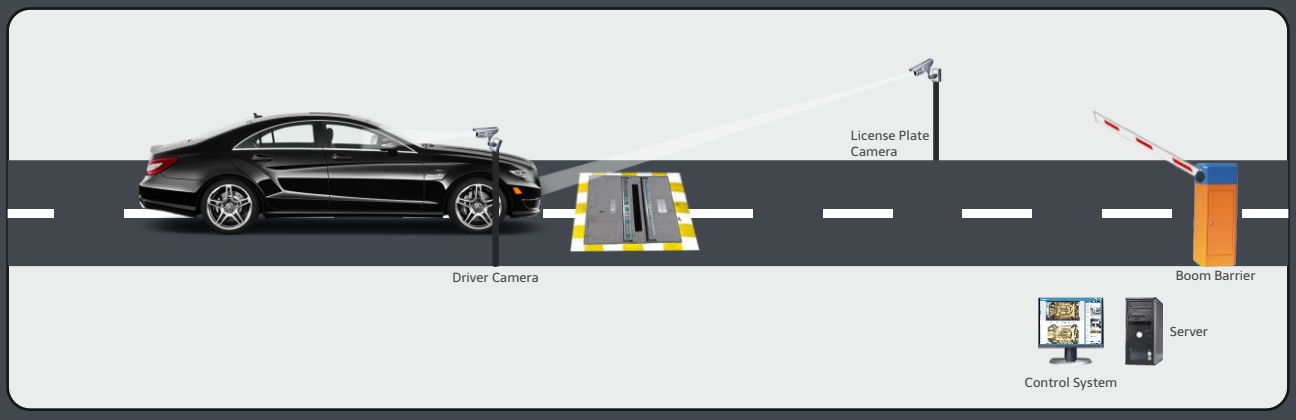
“Technological innovation and advancement is the core strength of Vehant and our highly efficient team of researchers is impelled to offer clients with products and solutions which are crafted to perfection.”
Our state of the art solutions are continuously leveraging technological innovations in Artificial Intelligence, Machine learning, Deep Learning etc.
Vehant boasts worldwide sales, service and manufacturing facilities based out of India & Netherlands that can quickly respond to customer needs and deliver products & solutions anywhere in the world.
Since 2005, our products have saved life & property across multiple countries across the world. With our extensive experience and dedicated team, we are ready to offer tailored solutions for your need, backing them with global service support.

About NuvoScan® 3D

NuvoScan 3D is an advanced automated 3D viewing Under Vehicle Scanning System (UVSS) based on the area scan imaging technology. It provides an optimum solution to scan, inspect, and digitally document the underside of the vehicles. The system is equipped with dual view, 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 a fraction of seconds.

Two of the most important available features are ‘real-time 3D morph’ and ‘compare image’. ‘Real-time 3D morph’ feature allows the operator to see multiple angular views of the underside very quickly. ‘Compare image’ feature helps in comparing the captured view of the vehicle with the image of the similar model of the vehicle fetched from the database. Under Vehicle Inspection System comes packed with some unique algorithms which enhance the user experience many fold by exploring the 3D aspect of the vehicle’s underbelly.

System Architecture



Optional Integration

Automated License Plate Reader (ALPR)

Automated license plate reader (ALPR) is high-speed, computer-controlled camera system that is typically mounted on poles. ALPR automatically captures all license plate numbers that come into view, along with the location, date and time.

Driver Camera

The Driver camera captures the image of the driver approaching towards UVSS. The image of the driver is stored in the database with check-in date & time punched along with the license plate number for future reference.

Central Monitoring System (CMS)

The central monitoring system is a smart system that connects a series of child monitors together and further connects them back to a central monitor.

Worldwide Installation

Vehant Technologies has installed its innovative products in 15+ countries around the world. Partnering with top tier organizations and government agencies, we have developed and customized solutions for different regions. Our service and support network is robust and provides global coverage. With our manufacturing facilities in Netherlands and India, we are all set to respond to any of your demands.

Dual Composite Image

Dual imaging feature from (3D) left and right view identifies any possible threat. This feature allows the operator to visualize the underside through two different perspectives.

Clear Color Image

High resolution COLOR composite images of the vehicle's underside. All components from the underside of a vehicle are clearly captured for better visual analysis.

Dual LED

Arrays of LED are installed around the main camera which provides better illumination to UVSS. The LED array further facilitates image clarity during abnormal weather condition.

Zoom Feature

Zoom facility upto 25X of the composite image to facilitate a closer view of niche areas. This feature allows operator to delve into the image without loosing clarity.

Air Cleaner Mechanism

Air blower cleans the top surface from dust by blowing high pressure air without leaving any traces.

Technical Specifications

Main Camera

• Imager	CMOS area scan sensor
• Resolution	1920x1200 pixels
• Video Format	GigE
• Certifications	CE compliant
• Power	12 V to 24 V DC

License Plate Camera

• Imager	CMOS color area scan sensor
• Resolution	1 MP or better
• Power	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	Intel core i5 2.4 GHz
• RAM	8 GB or better
• Hard Disk Capacity	1 TB or better
• PCI/PCIe Slots	2 PCI/PCIe Slots
• Display Monitor	24" color TFT or better

Sensor Unit

• Type	Inductive loop sensor
• Power Requirements	220 V AC
• Output	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: Installed underground

Speed Limit

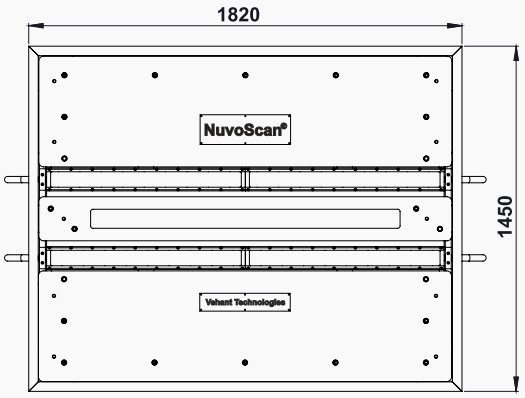
- Upto 25 kmph

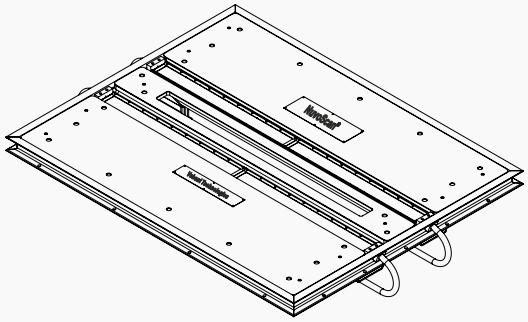
Load bearing capacity

- 40 tonnes (GVW)

Operating Temperature

- -20°C to 60°C





*Specifications are subject to change without prior notice

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