NUVOSCAN® (E)
UNDER VEHICLE SCANNING SYSTEM

MECHANICAL STRUCTURE

LED LIGHT

UVSS CAMERA
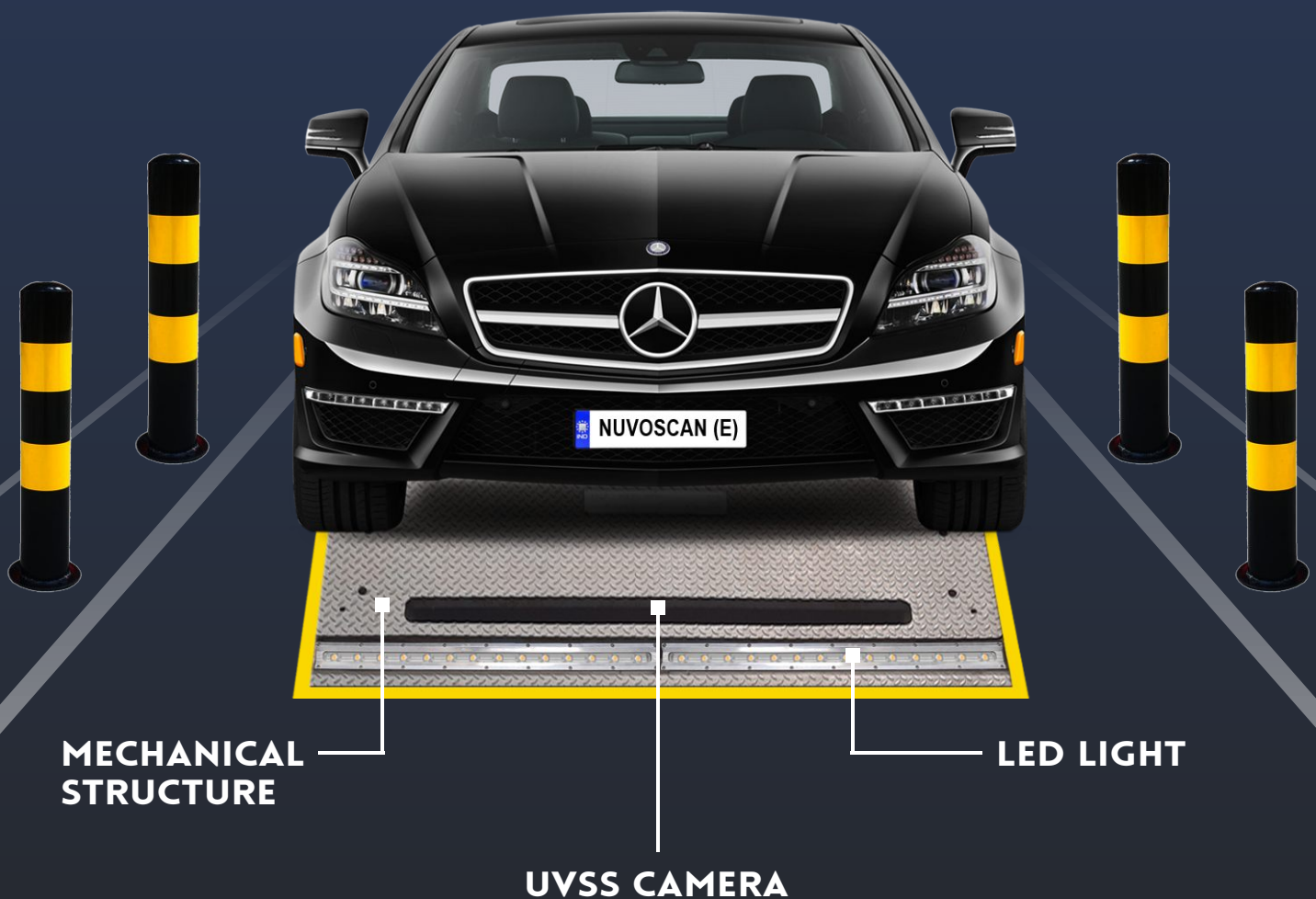
"enVISIONing a secure world"

Under Vehicle Scanning System
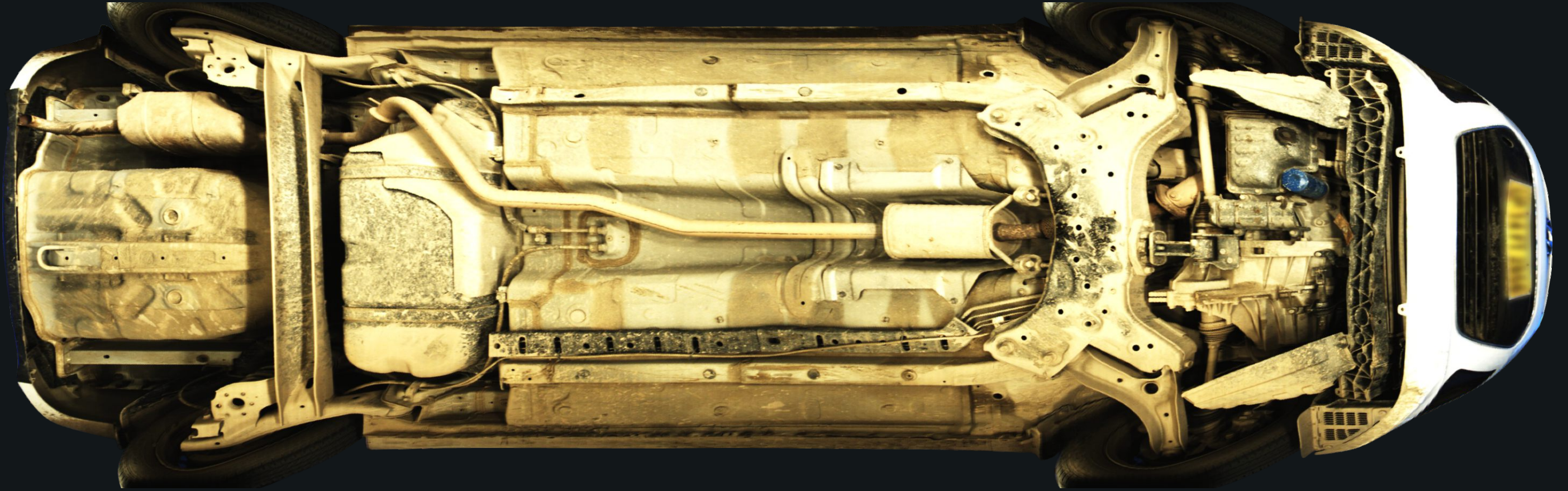
About Vehant Technologies

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® (E)

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

System Architecture

Driver Camera • UVSS • License Plate Camera • Boom Barrier • Control System • Server
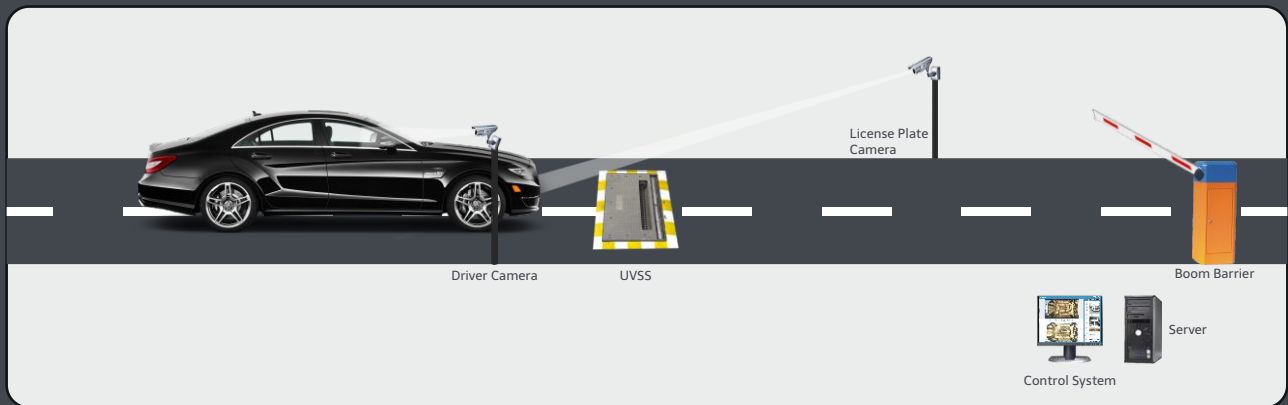
Optional Integration

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 more than 15+ countries around the world. Partnering with top tier organizations and government agencies, we have developed and customized solution 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.

Image Comparison

This under vehicle surveillance system can easily compare undercarriage images automatically with underside images of similar vehicle or previously stored image of the same vehicle.

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.

LED

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 20X of the composite image to facilitate a closer view of niche areas. This feature allow operator to delve into the image without loosing clarity.

Air Cleaner Mechanism

Air blower to 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   1280x1024 pixels
- Video Format   GigE
- Certifications   CE/FCC compliant
- Power   12 V to 24 V DC, <10 W

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 or better
- RAM   4 GB or better
- Hard Disk Capacity   1 TB or better
- PCI/PCIe Slots   2 PCI/PCIe Slots
- Display Monitor   19" LED or better

Sensor Unit

- Type   Inductive Loop Sensor
- Power Requirements   220 V AC
- Output   NO/NC Relay Type

Lighting Unit

- LED Light Unit   220 V AC, 240 W

Weight

- 280 kg

Unit dimensions (lXbXh)

- 1820 X 750 X 750 (in mm)

Installation and Mounting

- Fixed: Underground Installed
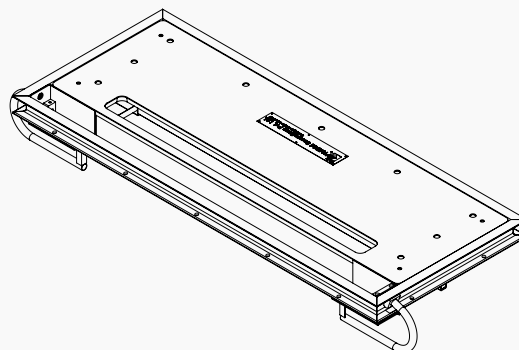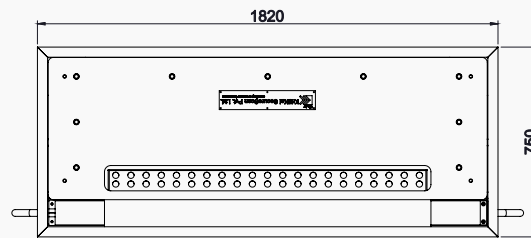
Speed Limit

- Upto 25 Kmph

Load bearing capacity

- 40 Tonnes (GVW)

Operating Temperature

- -20°C to 60°C

*specifications are subject to change without prior notice