

ADVANCED UNDER VEHICLE SCANNING SYSTEM (UVSS)



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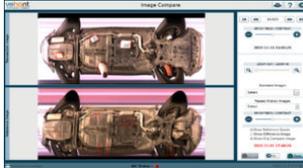


Partner **Vehant Technologies**



Vehant Technologies is a leading provider of advanced physical security and surveillance solutions, specializing in Explosive Trace Detectors (ETDs), Under Vehicle Scanning Systems (UVSS), and X-ray inspection technologies. Their systems are engineered to support critical infrastructure protection, transportation security, and high-risk facility monitoring.

Product offering

<p>NuvoScan H</p> 	<p>NuvoScan E</p> 	<p>Nuvo Scan®3D</p> 	<p>DepScan Stereoscopic UVSS (Under Vehicle Scanning)</p> 
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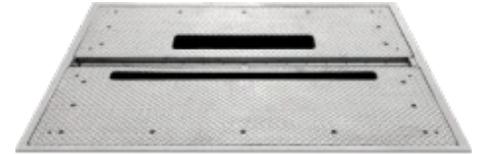
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NuvoScan H

NuvoScan (H) is the advanced automated COLOR Under Vehicle Scanning System (UVSS). NuvoScan is based on the latest and highly advanced 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 produces a high-quality composite underside image of the vehicle to facilitate efficient viewing and detection of any potentially harmful object that may be attached to the underbelly of the vehicle. NuvoScan (H) gives a seamless composite image without distortion, even if vehicle halts completely on top of the UVSS.



Product Features

- High-resolution composite COLOR image
- Air cleaner mechanism for all-weather operation
- Vehicle entry database & reporting features
- Security password protection
- Easy to install
- CE, ISO certified system
- LED array for better illumination
- All weather-proof IP-67 certified underground enclosures

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NuvoScan E

NuvoScan® generates a high-resolution SingleView image using advanced electromechanical components, cameras, illuminators, and sensors. Additionally, NuvoScan™ Area incorporates AreaScan mosaicing software to effectively tackle speed and movement challenges faced by LineScan systems. This innovation guarantees the practicality and reliability of NuvoScan®. Remarkably, NuvoScan® produces a seamless composite image without any distortion, even when a vehicle stops completely on the UVSS platform.



Product Advantages

- High resolution composite COLOR image
- All weather proof IP-67/68 certified underground enclosures
- Air cleaner mechanism for all weather operation
- Vehicle entry database & reporting features
- Security password protection
- CE,ISO certified system



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Nuvo Scan® 3D

NuvoScan® 3D is an advanced automated 3D viewing Under Vehicle Scanning System, based on the latest dual camera AreaScan imaging technology. It comes packed with some unique algorithms which enhance the user experience manifolds by exploring the 3D aspect of the vehicle's underbelly. In addition to the 3D visualization, one area where the new technology stands out is in bringing forth otherwise hidden or partially occluded objects by showing a dual view of the vehicle, which may not have been the case in the older generation SingleView systems.



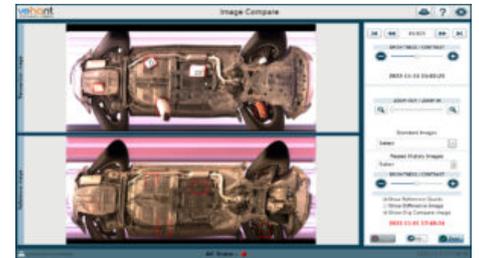
Product Features

- Dual imaging feature from (3D) left and right view in order to identify any possible threat
- High resolution COLOR left and right composite images of the vehicle's underside
- Novel view generation feature to see real life 3D visualization of the underside
- Hard-to-view/occluded areas can be scanned easily through 3D UVSS system
- Stop and 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 and right) views with the help of license plate/type database



Security Detection › Advanced Under Vehicle Scanning System (UVSS) **DepScan Stereoscopic UVSS (Under Vehicle Scanning)**

DepScan 3D is a next-generation under vehicle scanning solution (UVSS) engineered for high-security checkpoints, critical infrastructure and high-throughput vehicle access points. This advanced system delivers true 3D undercarriage imaging using stereoscopic vision technology, enabling security teams to detect foreign objects, tampering and anomalies with unparalleled accuracy.

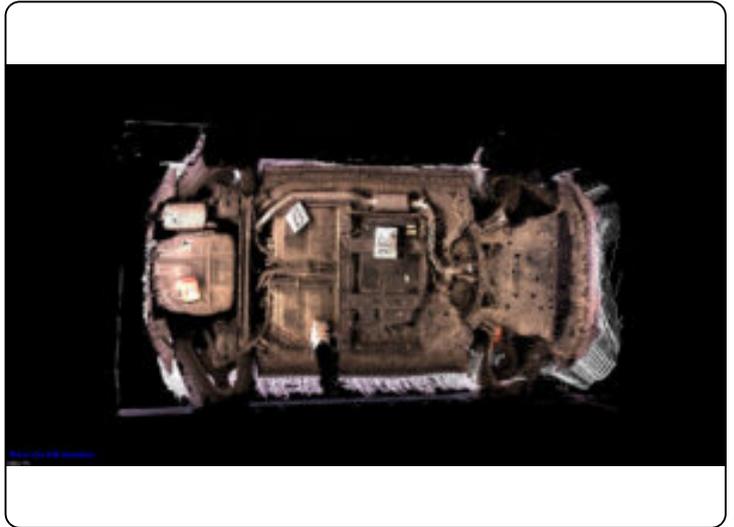
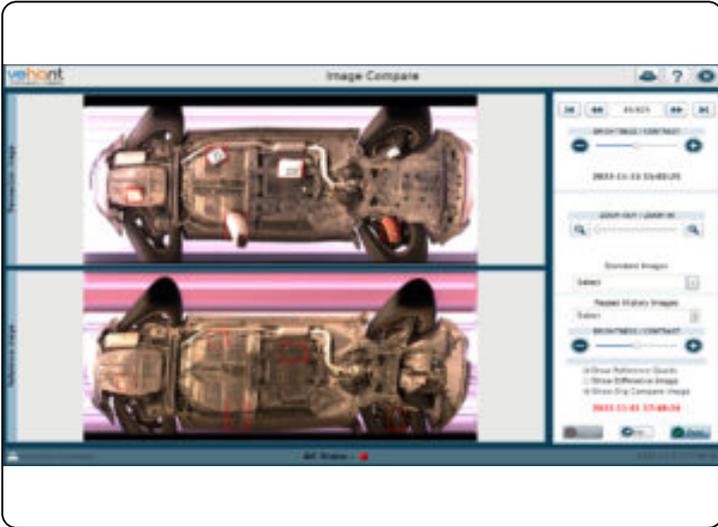
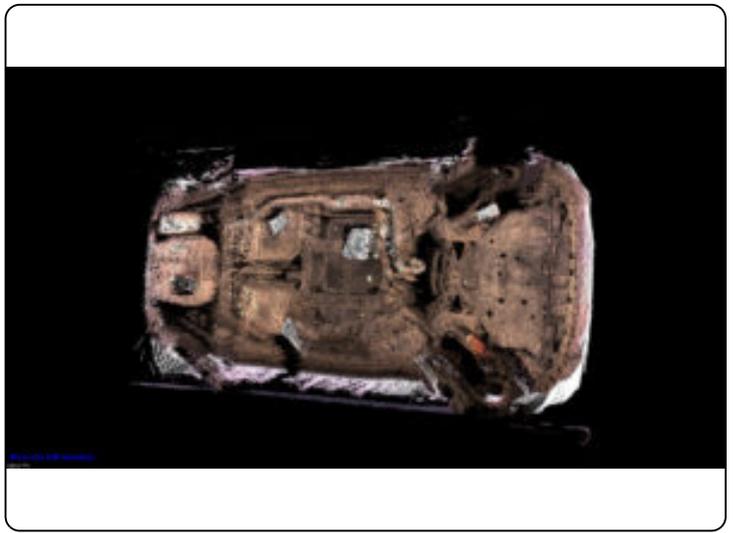
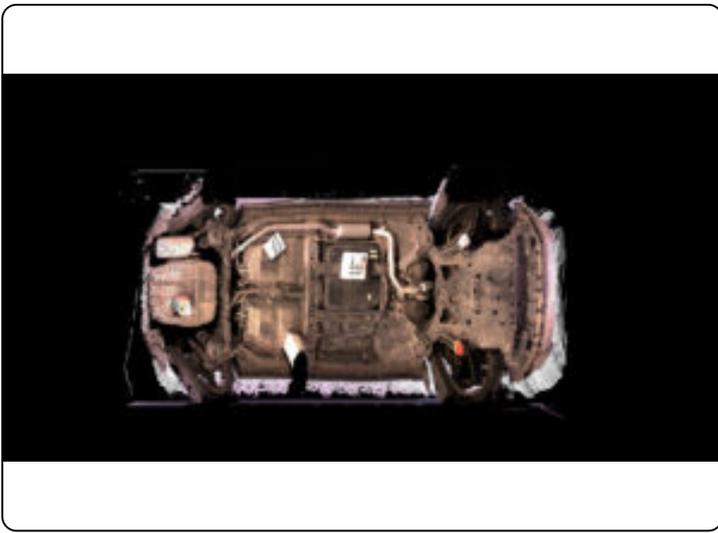


Salient Features

- Advanced stereovision technology
- Generates point cloud based 3D Model
- Gives relative depth information
- High resolution composite COLOR image
- Improves operators efficiency time
- Entry database & reporting features
- Secured password protection

This technology is highly similar to human binocular vision. In the traditional UVSS, the underbelly scanning included inspection of 'x-y' axis, but in this new advanced technology a third dimension 'z' axis is also obtained that helps in differentiating the usual underside with any foreign object by studying the depth of the object. DepScan is equipped with advanced and user friendly GUI.





Why DepScan 3D?

Traditional under vehicle inspection systems capture only 2D images, analysing the underside in the **x-y axes**. DepScan 3D goes beyond by adding the **z-axis (depth)** — generating a **3D point cloud model** of a vehicle's undercarriage. This depth-based inspection helps differentiate benign features from real threats, significantly reducing false positives and improving detection reliability — much like human binocular vision.

Key Capabilities

- **Stereoscopic vision technology:** Dual side-by-side cameras capture multiple perspectives for accurate depth perception.

- **3D point cloud imaging:** Produces rich, depth-enabled visual models of vehicle undercarriages.
- **Depth-based anomaly detection:** Identifies attached objects, foreign items or structural deviations more reliably than 2D UVSS.
- **High-resolution composite imaging:** Provides clear visual data to support threat assessment and documentation.
- **Database & reporting:** Comprehensive entry logging and reporting features support security operations and audit trails.
- **User-centric interface:** Intuitive GUI designed for fast operator analysis and workflow efficiency.

Ideal Applications

DepScan 3D is suited for secure vehicle entry control at airports, ports, border crossings, government facilities, industrial plants and smart infrastructure projects. Its robust 3D scanning capability ensures rapid, non-invasive inspection while maintaining throughput and operational flow.

Integrated Security Enhancements

When deployed with access control, ANPR or driver image systems, DepScan 3D integrates seamlessly into wider security ecosystems — offering enhanced situational awareness and actionable alerts.

Deploy DepScan 3D with PEO Detection

As a trusted **European distributor and solutions partner**, PEO Detection offers site survey, installation, training and support for DepScan 3D across the **Benelux, Netherlands, Germany and wider Europe**. Our certified team ensures tailored configuration to meet your security requirements and compliance standards.