DepScan®

*Stereoscopic Automated Under Vehicle
Scanning System*

intel partner Gold IoT Solutions

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INTRODUCTION

In recent years, there has been an increase in terror activities and threats worldwide. When tasked with ensuring the safety of people, it is essential to have the tools available so that the task can be performed in a fast and effective manner. Under Vehicle Scanning Systems (UVSS) are among the most important tools used for vehicle security owing to their ability to quickly scan vehicles at will.
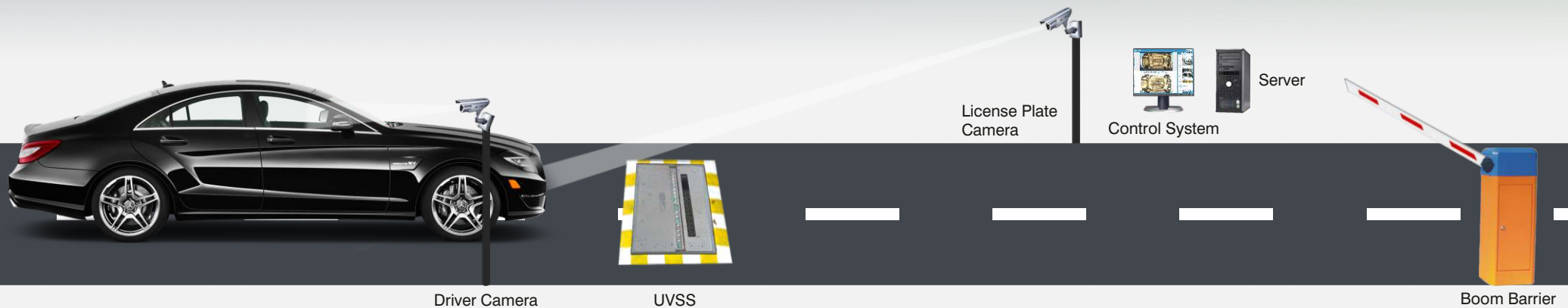
UNDER VEHICLE SCANNING WITH A COMPETITIVE EDGE

TECHNOLOGICAL DOMINANCE IN SCANNING

Under vehicle scanning has come a long way. Initially, the scanning was done through line scan cameras that captured the image of each passing vehicle and stored it in a drive. With exponential increase in the traffic flow and unprecedented amount of threat objects, the need for quick and accurate images has surged manifold. The technology that followed, involved multiple area scan images combined into a composite image detecting any change instantly as compared to the standard image using the trained data. These traditional scanning techniques include inspection of the 'x-y' axis. The third dimension adds the edge to the scanning and fixes the dominance of the solution above its competition. The z-axis is obtained that helps in distinguishing the usual underside from any foreign object by studying the depth of the object.

Server

License Plate Camera

Control System

Driver Camera

UVSS

Boom Barrier

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DEPSCAN® UVSS AS SECURITY ENFORCER

No more shooting in the dark - the future is here

BOOST SECURITY, IMPROVE OPERATOR PERFORMANCE

- Stereoscopic vision technology scans the underside of vehicles.

- Next-Gen game-changing technology for the ever-growing realm of security tech

- Does depth-based comparison using multiple cameras, placed side by side to obtain multiple views of the underbelly of any vehicle from different angles.

- Point cloud-based 3D model - helps to get the relative depth information.

- Similar to human binocular vision.

It is always advisable to make provision for the latest security equipment as

Safety first is safety always

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STEREO VISION TECHNOLOGY

Works like a human eye

The stereo vision technique is based on a technology that uses two or more cameras to provide a full field view of 3D measurements. It works the same as a human eye to give an accurate, real-time depth perception by using two sensors at a set distance apart to triangulate similar pixels from both 2D planes. One can determine the 3D location of an object by ray intersections and basic triangulation of pixels. With more disparity, there is more angular offset from the viewed object which gives more in-depth information. With artificial illumination, stereo vision is an active technology and with no such illumination required, it is considered passive.

DepScan® Salient Features

- Advanced stereo vision technology
- Generates point cloud based 3D Model
- Gives relative depth information
- High resolution composite COLOR image
- Improves operators efficiency & time
- Database & reporting
- Secure password protection

Optional Features

Automated License Plate Reader

Driver Image Capture Module

Remote access feature

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CONCLUSION

Customer Experience

Every incident is admonitory when a premise is crucial for sensitive tasks as well as for the security of the people present in it. The security teams should be equipped to limit and prevent such incidents in time. By deploying under vehicle scanning system DepScan, contraband or unauthorized activity can be detected and security can be dramatically increased.

Security

An incident can cost infrastructural damage and lives. A technologically advanced security check at the entry will provide robust first line of defence leading to improved premise security, mitigated risk - New call to action.

Automation

It lowers operational cost with minimum requirement of services and support. The solution improves financial efficiency of the client as it saves considerable amount of time of the operator in detecting object and raising an alert.
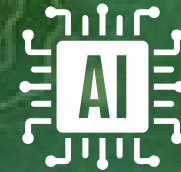
AI

The innovative technology using AI-ML in detection of unidentified object in the underside of the vehicle makes the job easier for the operator. 3D vision uncovers fresh points that remain occluded from operator's sight.

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