



Imaging System Performs Effective Vehicle Undercarriage Inspections

A unique Under Vehicle Imaging System uses a digital line-scan technology to provide an effective way to search the undercarriages of vehicles. The system captures a high-resolution color image of the vehicle's undercarriage and then displays it on a monitor. The user can then search for items such as explosive devices, firearms and other types of contraband. The view can be magnified up to twelve times for a more detailed search. Images can also be identified with their corresponding license plate numbers and archived for future reference.

The Under Vehicle Imaging System (UVIS) was designed and manufactured by Perceptics (Knoxville, Tennessee www.perceptics.com), a company that develops pattern recognition technologies.

UVIS inspects the entire undercarriage within seconds. It automatically displays the full undercarriage image on a touch screen monitor and then scrolls and pans via the touch screen software for faster image analysis. This allows the operator to zoom in and move around the image for detailed and thorough inspection. The image is then saved with a time-and-date stamp to a database for future review. The system allows the inspection to occur while the automobile is moving through the system. UVIS is available as a mobile or a static unit and can be used at critical facilities.

Perceptics has developed a wide variety of application-specific imaging system hardware and related system software. These include a system that reads license plates; an automated container identification and inspection system; and machine vision inspection systems.

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