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ISS

SecurOS® UVSS

Under Vehicle Surveillance System

Scan the undercarriage of vehicles for foreign objects in as little as three seconds

Technology Overview

SecurOS® UVSS is a compact solution for visual inspection of a vehicle's undercarriage, including the detection of explosives, dangerous objects, prohibited items, and damages/anomalies. The system includes both software and hardware that provides high-quality images and intelligence to combine UVSS scans with license plate recognition (LPR)/automatic number plate recognition (ANPR) data and access control to better protect critical sites.

Additional features, such as visual and magnetic suspicion maps as well as sliding zoom and 3D magnifying glass – all of which are unique to the SecurOS® UVSS offering – enable users to quickly find any potential threats that might be lurking underneath a vehicle.

Applications

Airport + Seaport Checkpoints

Industrial Enterprises

Customs + Border Patrol

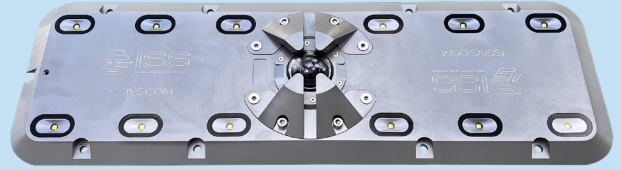Critical Infrastructure + Restricted Areas

Large Venues + Arenas

Federal + State Properties

Key Features

HIGH-QUALITY UNDERCARRIAGE SCREENING
Image quality remains unaffected by vehicle speed changes (supported up to 10mph/15kmh), plus 12-bit HDR processing and automatic gain system results in even illumination in various lighting conditions

ADVANCED DATA HANDLING
Captured images are saved with recognized license plates allowing for streamlines search and analysis, while operators can save undercarriage scans of a particular vehicle for comparison and/ or reference

EASY INSTALLATION + MAINTENANCE
Compact platform does not require heavy construction to deploy, is easy to maintain, is highly durable, and has built-in video analytic detectors to detect vehicle presence without physical sensors

SECUROS® ECOSYSTEM
With built-in SecurOS® Auto license plate recognition, UVSS can display real-time and archived video from all cameras: scanning camera, LPR/ ANPR camera, and surveillance cameras

UVSS at Work:
FIFA World Cup Qatar 2022

To help prepare for the FIFA World Cup Qatar 2022, ISS worked with the Supreme Committee for Delivery & Legacy and Qatar-based systems integrator Gulf Networks Security Solutions to install 40 SecurOS® UVSS units at vehicle checkpoints for:

▶ The eight stadiums hosting matches in and around Doha

▶ Three logistics areas and a fan zone to protect visitors and streamline the screening process

Specifications

ISS UVSS Platform Support

Scanning camera	2MP Area scan machine vision camera
Pixel density	9 pixel/cm (with ground clearance of 5.9 inches/150mm)
Maximum vehicle speed	10 mph (15 km/h)
Minimum vehicle clearance	4.7 inches (120mm)
Maximum vehicle width	Up to 8.5 ft/2.6 m (if ground clearance is 5.9 inches/150mm)
Maximum vehicle length	Up to 72.18 ft (22 m)
Minimum pause between scans	3 seconds
LPR/ANPR coverage	More than 90 countries supported worldwide
Lighting system	8 white light LEDs (strobe mode, synchronized with active camera shutter)
Image processing time	Up to 3 seconds (for passenger vehicle)
Load capacity	Up to 40 tons
Protection Rating	IP68, IK10
Operating Temperatures	-40°F to +140°F (-40°C to +60°C)
Power	24 V DC / (50 W – average; 100 W – peak)
UVSS platform weight	Up to 55.1 lbs. (25 kg)

Electromagnetic immunity and emissions certifications	FCC Part 15, Subpart B / EN 55032:2015 / EN 55024:2010 / IEC 61000-6-3:2007+A1:2010 / IEC 61000-6-2:2005
Dimensions (LxWxD)	38.2 in x 12.2 in x 7.7 in (970 mm x 310 mm x 195 mm)
Dimensions of camera protection body	D = 3.5 in, H = 5.4 in (D = 90 mm, H = 137 mm)
Mounting configuration	Semi-hidden installation (road drilling only for camera protective body)
Warranty period	1 year

Order Information

ISS-UVSS-H	SecurOS® UVSS Scanning Platform. Includes Power supply - 24 VDC output (120 W). *** Cannot be purchased separately without SecurOS® UVSS Module Software (ISS-UVSS-S).*
ISS-UVSS-S	SecurOS® UVSS Module Software license (1 license required for each UVSS Scanning Platform). *** Cannot be purchased separately without SecurOS® UVSS Scanning Platform (ISS-UVSS-H).*
ISS-UVSS-HS	SecurOS® UVSS Scanning Platform PLUS SecurOS® UVSS Module Software BUNDLE. Includes Power supply - 24 VDC output (120 W).
ISS-UVSS-CON-R	SecurOS® UVSS Controller (Server). Includes 5 Year Next Business Day KYHD Warranty.

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