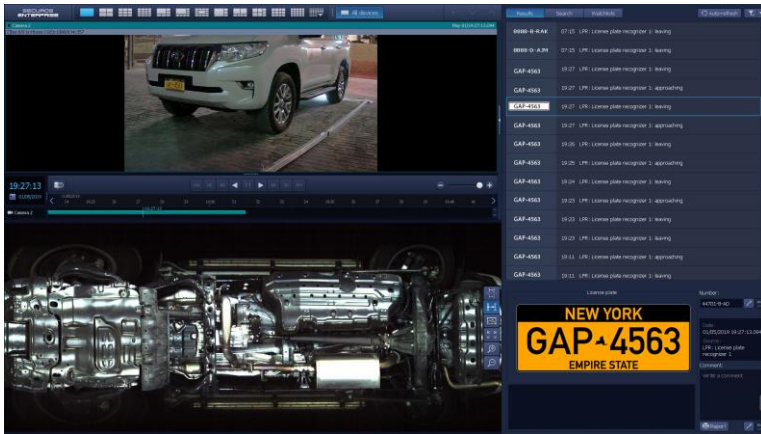




SecurOS™ UVSS

Enterprise Level Under Vehicle Surveillance System



SecurOS™ UVSS is a hardware-software based system for remote under-vehicle surveillance, providing high quality images of the vehicle's undercarriage. It can be organically integrated into any security system based on the SecurOS VMS.

This allows to design a distributed monitoring infrastructure, combining UVSS scans with LPR/ANPR data and access control.

SecurOS UVSS is a cost-effective compact solution for visual inspection of all types of vehicles: from passenger vehicles to trucks. It is perfect for government, military, corporate, and transportation facilities – wherever visual inspection has to be performed.

SecurOS UVSS has a wide range of applications including detection of explosives and dangerous objects, detection of smuggling of prohibited items, searching the vehicle's undercarriage for damages and anomalies.

KEY ADVANTAGES

High quality undercarriage scanning

- Image quality is not affected by changes of a vehicle's speed, nor by vehicles coming to a complete stop.
- Supports vehicle speeds up to 10 mph (15 km/h).
- Advanced 12bit-HDR processing and automatic gain system, provides images with even illumination in different lighting conditions.
- Patented technologies for correction of distortion and composite image stitching.

Advanced data handling

- Undercarriage images are saved together with respective recognized vehicle license plates allowing for later searches and analysis.
- Operators can save undercarriage scans of a particular vehicle as a reference image to use for comparison when this vehicle appears again.

Easy installation and maintenance

- Compact UVSS-platform does not require heavy construction work to deploy and is easy to maintain.
- No need for physical sensors to detect vehicle presence thanks to build-in video analytic detectors.
- Highly durable construction is capable of resisting a vehicle accidentally running over the UVSS platform with its wheels.

SecurOS Eco-System

- Built-in SecurOS™ Auto license plate recognition system.
- Ability to display real-time and archived video from all cameras: scanning camera, LPR/ANPR camera, and surveillance cameras.
- Wide range of APIs to support integration of traffic lights, X-Ray scanners, automatic road barriers and bollards, informational displays, and other devices.

SECUROS UVSS PRIMARY APPLICATIONS



SYSTEM ARCHITECTURE

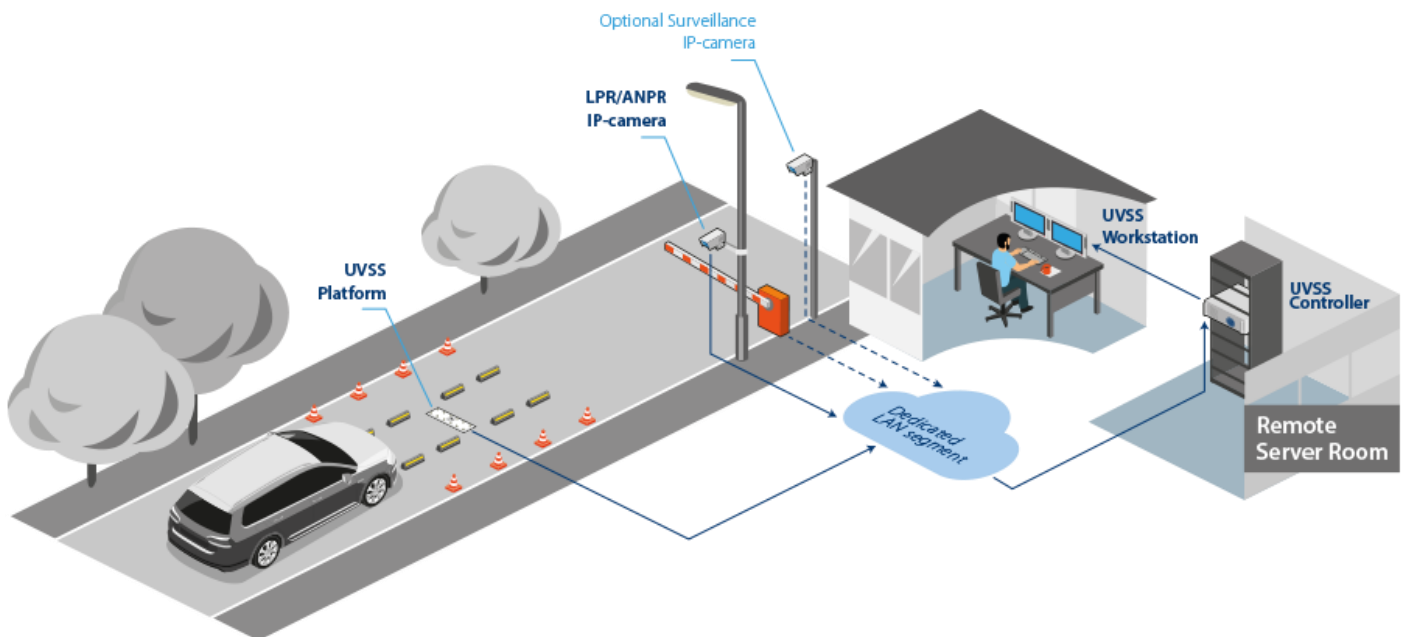
Hardware

- SecurOS UVSS Platform – IP68 scanning system with area scan machine vision camera and fish-eye lens (mounted on the roadway).
- SecurOS UVSS Controller – processing server with data storage and integrated video management platform SecurOS Enterprise.
- LPR/ANPR camera.
- Operator workstation.

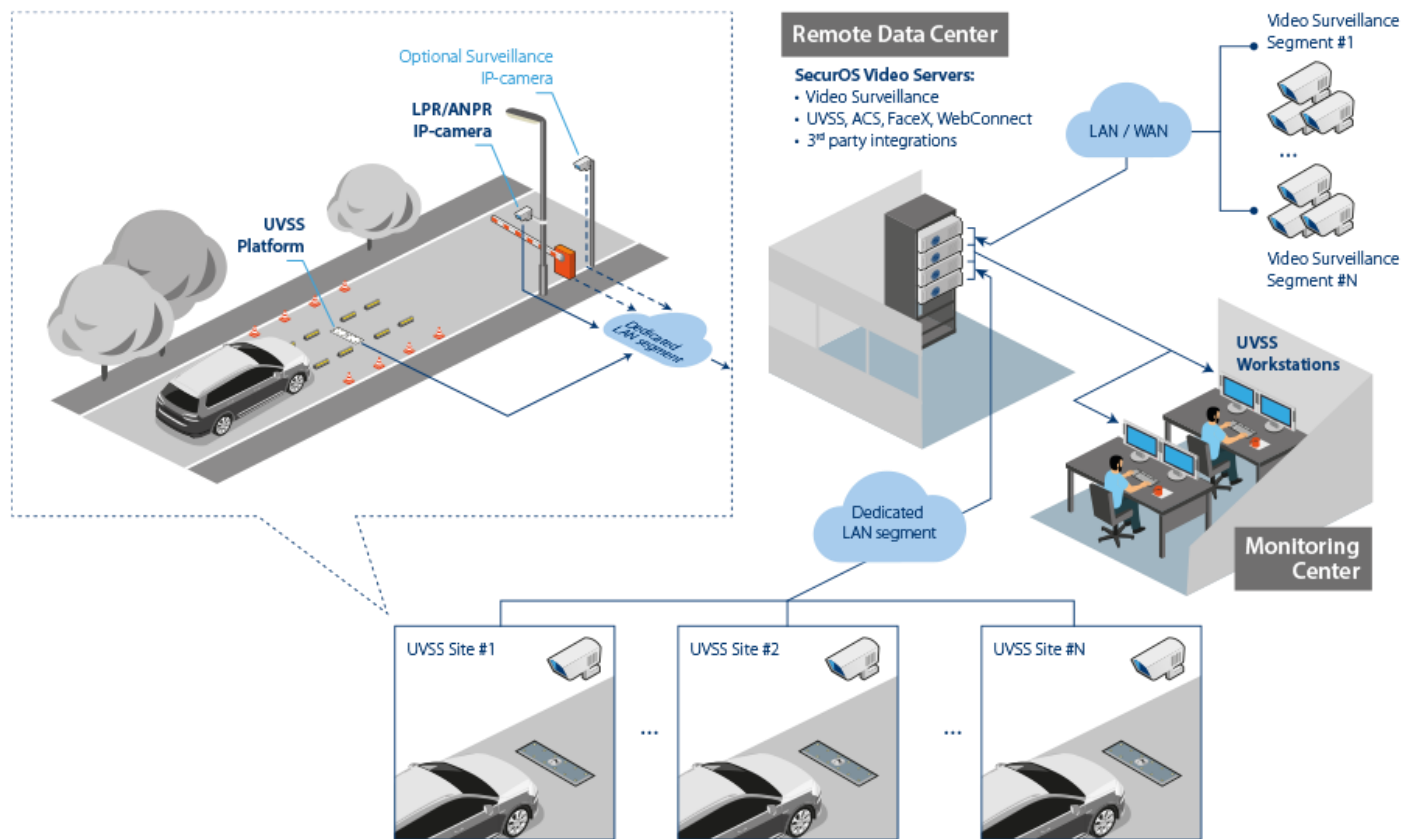
Software

- SecurOS VMS providing video monitoring, video recording, and hardware-software system management, allowing surveillance of the undercarriage of vehicles and cross-referencing with video archive.
- SecurOS Auto providing license plate recognition, advanced search and watchlist capabilities, etc.
- Customizable professional SecurOS UVSS operator Graphical User Interface.
- Interoperability and integration with 3rd-party devices and systems via embedded SecurOS APIs.

Base System Architecture



Distributed System Architecture

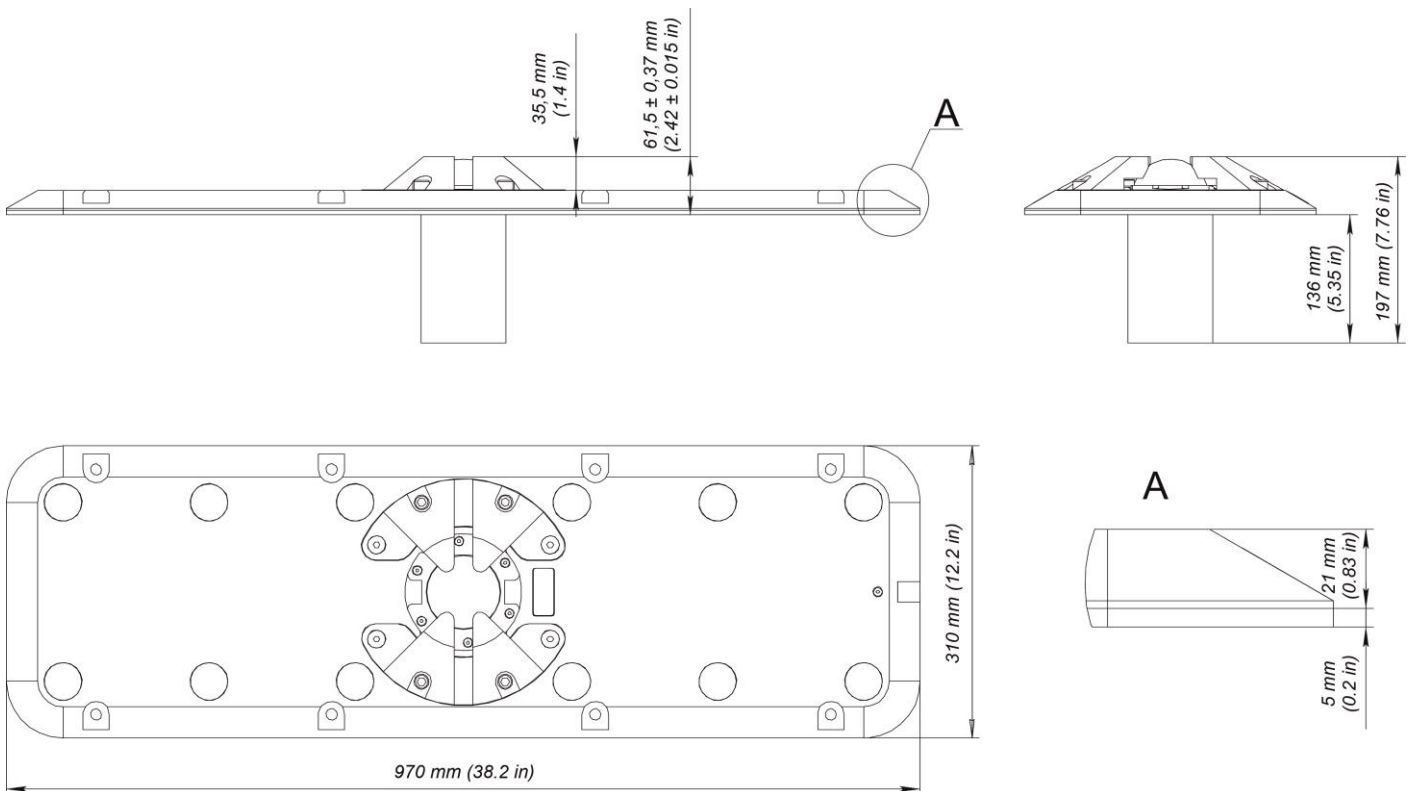


A distributed system architecture provides additional benefits:

- Ability to manage the data of any UVSS Controller or Video Server from any workstation of the security system.
- Extended functionality in combination with other ISS SecurOS software modules: Facial recognition (SecurOS FaceX), Access Control and Fire Alarm (SecurOS ACS), 2D and 3D maps, situational awareness analytics (SecurOS Tracking Kit), and more.

UVSS PLATFORM SPECIFICATIONS

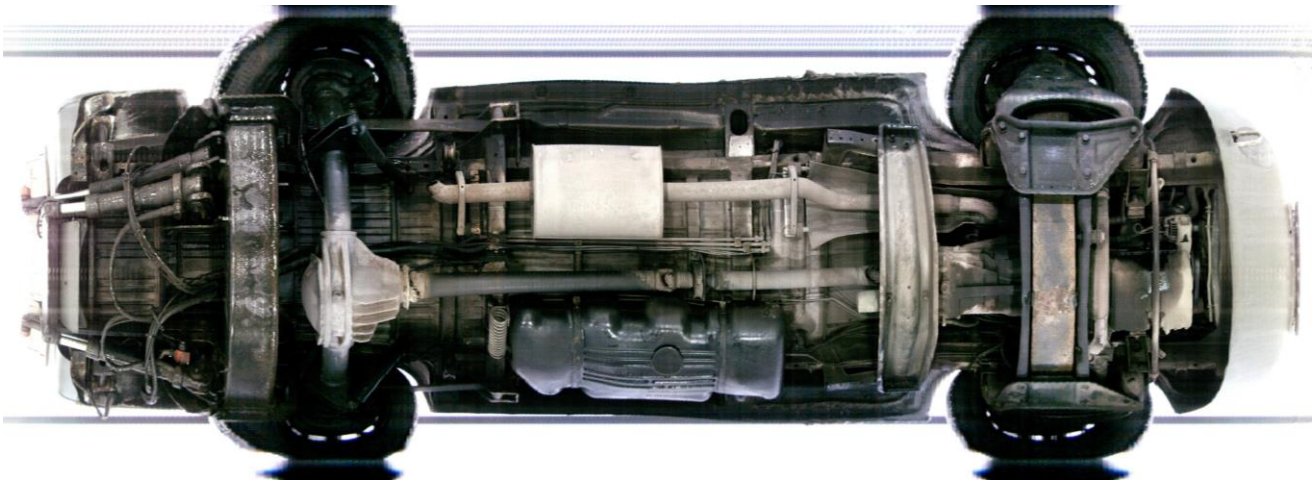
Scanning camera	2MP Area scan machine vision camera
Pixel density	9 pixels/cm (with a ground clearance of 5.9 inches / 150 mm)
Maximum vehicle speed	10 mph (15 km/h)
Minimum vehicle clearance	4.7 inches (120 mm)
Maximum vehicle width	Up to 8.5 ft / 2.6 m (if ground clearance is 5.9 inches / 150 mm or above)
Maximum vehicle length	Up to 72.18 ft (22 m)
Minimum pause between scans	3 sec
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 sec (for passenger vehicle)
Load capacity	Up to 40 tons
Protection Rating	IP68, IK10
Operating temperature	-40°F ... +140°F (-40°C ... +60°C)
Power	24 V DC / (50 W – average; 100 W – peak)
Electromagnetic immunity & 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)
UVSS platform weight	up to 55.1 lbs. (25 kg)
Mounting configuration	Semi-hidden installation (road drilling only for camera protective body)
Warranty period	1 year



UVSS Platform Illustration



UVSS Platform



High Resolution Undercarriage Image Produced by SecurOS UVSS

ORDERING 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. <i>Includes Power supply - 24 VDC output (120 W).</i>
ISS-UVSS-CON-R	SecurOS™ UVSS Controller (Server). Includes 5 Year Next Business Day KYHD Warranty.

CE FCC IK10



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