

SAE SYSTEMS

S-COMM – UNDER VEHICLE SURVEILLANCE SYSTEM (UVSS)

SAE Systems is delighted to offer the most capable and flexible UVSS available for detecting contraband, drugs, explosives, and other objects.



If your premises are worth securing, it's worth looking into Under Vehicle Surveillance Systems. Our UVSS solutions are designed to scan, monitor, and digitally record crisp, clear digital video images of the entire width of a vehicle's undersides—all with one permanent or portable system. Careful integration of components makes the UVSS a cost-effective and convenient solution for checking all types of vehicle traffic. It's an ideal solution for government, military, corporate, and transportation facilities—wherever complete vehicle monitoring is required.

Advanced imaging and LED illumination provide clear, high-resolution video of the vehicle's underside to help detect attached packages, explosives, and other objects. For monitoring, images are processed by digital video recorder (DVR) capable of recording 4-16 channels simultaneously and then displaying moving images on screen. The UVSS DVR delivers the full picture of a vehicle's entire width and length for a fraction of the cost of less capable systems.



Each UVSS system gives you total flexibility in integrating with your current security system. The open architecture means you can connect to your existing CCTV system, transmit your video over IP, fibre-optics, coax, or wireless, and integrate with Automatic Number Plate Recognition (ANPR) and driver image-capture cameras. The system can be configured with motion detection or loop detection so that you only record "live" events. You can view in real-time and full colour the entire length of the under vehicle. There is no waiting as in line-scan systems and no need for expensive image-processing computers. See it live with no delay. And it's just as easy to store images on a DVR to keep a high-resolution record of all vehicles.

The heavy-duty low profile galvanized steel ramps have a 48-ton capacity and are designed to withstand harsh environments, rugged terrain, and extreme temperatures. Likewise cameras and lighting are encased in sturdy weatherproof housings. LED's offer the most reliable low-heat light source available with a typical life of over 100,000 hours. LED's are preferred over halogen lamps because of their significantly longer life and lower heat generation.

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High-resolution colour cameras give you clear sharp images. Bright white high-intensity Led-based lighting illuminates the vehicle's undercarriage so details aren't lost in shadows, and with the ability to place cameras anywhere along the length of the ramp, wheel wells and other details are easy to capture. Focal length, field of view, and angle of the camera simulate a person in a pit viewing vehicles passing over.

The cameras feature a tough, scratch-proof sapphire lens. Since there are no areas for water to gather, there are no special drainage requirements or special cleaning equipment required. Each system is backed with a manufacturer's unconditional no-questions-asked warranty. Permanent and portable systems are available; the portable version is installed by just laying the ramp in the inspection area with some traffic cones around it. It comes with a galvanized cable protector to cover and protect the cables that go to the portable monitoring station. Permanent versions can be field-installed by one person in less than one hour. There are no pits to dig and no major construction required. Rugged camera modules have high-intensity bright white LED's built in.

The UVSS system can be tailored to suit your requirement in terms of length and number of cameras. The bright LED's allow the UVSS to be used in the dead of night without any additional lighting.

Typical Applications

- Defence facilities
- Government Buildings
- Embassy compounds
- Nuclear, Oil and Gas Energy entrances.
- Petroleum and Chemical refineries
- Prisons
- Underground parking Garages
- Residential complexes
- Palaces and presidential residences
- Hotels, casinos, and resorts
- Stadiums / public events (on rental-based program)
- Office Complexes
- Borders

Features and Benefits

- Designed for rugged terrain, harsh environment, extreme temperature
- Waterproof camera and lights
- ANPR (automatic number plate recognition) compatible
- DVR (Driver Vehicle recognition) compatible
- Open architectures for easy integration with existing CCTV system
- Video can be transmitted on IP, wireless, fibre optics, or standard coax
- Standalone digital video recorder or pc-based recording system
- Standard systems come with flat panel LCD display
- Above-surface camera/lighting mounting: no major construction required
- High-resolution long-life colour vision system

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LED's provide bright white, high-intensity light, providing daytime simulation light for undercarriage illumination

LED's are rated for 100,000 operating hours

Easy, hose-down cleaning of camera and LED's

All cabling and power accessories are standard with all systems

Permanent or portable solution

All steel ramp with 48-ton capacity for heavy-duty performance

Unconditional factory warranty on parts and labour

Extended warranties available

Lowest cost and highest flexibility

Integrated LED/camera modules

Ramp can be expanded or reduced in size in 1-foot increments

Each ramp expansion section can be configured with or without camera

Scratchproof, user-replaceable camera protective

Configurations

The flexibility of the UVSS allows it to be configured to meet your security inspection needs and your budget.

The UVSS can be as simple as a camera connected directly to monitors for live monitoring.

Four cameras can be multiplexed to a single digital video recorder.

Live monitoring and PC-based recording/monitoring can be combined, which also makes it easy to network the security system.

Accessories

We can supply complete systems, including UVSS ramp, digital video for multi-channel recording, LCD flat-panel monitors, video multiplexer, software, and all necessary connecting cables and related hardware. We also offer comprehensive services to help you integrate the UVSS into your building or enterprise security system.

