

UNDER VEHICLE
SURVEILLANCE SYSTEMS

**FLEX
Series**

The most capable UVSS (Under Vehicle Surveillance System) available for detecting contraband, drugs, explosives, and other objects





GO WITH HEAVY-DUTY PERFORMANCE

If your premises are worth securing, it's worth looking into Under Vehicle Surveillance Systems (UVSS). 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 passenger vehicles, vans, buses, semi tractors, trucks and trailers, and more. It's an ideal solution for governmental, 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.

Unmatched integration flexibility

Each UVSS gives you total flexibility in integrating with your security system. The open architecture means you can connect to your existing CCTV system, can transmit your video over IP, fiber optics, coax, or wireless, and can integrate with Automatic License Plate Recognition and driver image-capture cameras. The system can be configured with motion detection or loop detection so that you only record “live” events.

Seeing is securing in real time

With the UVSS, you can view in real-time and full color for the entire length of the vehicle. There is no waiting like with line-scan systems and no need for an expensive image-processing computer. 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.



Sharp images provide the total picture

High-resolution color 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. There is no IR light provided to confuse the security personnel from switching to a black and white image from a color image.



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.



Built rugged for long life

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. LEDs offer the most reliable, low-heat light source available, with a typical life of over 100,000 hours. LEDs are preferred over halogen lamps because of their significantly longer life and lower heat generation.



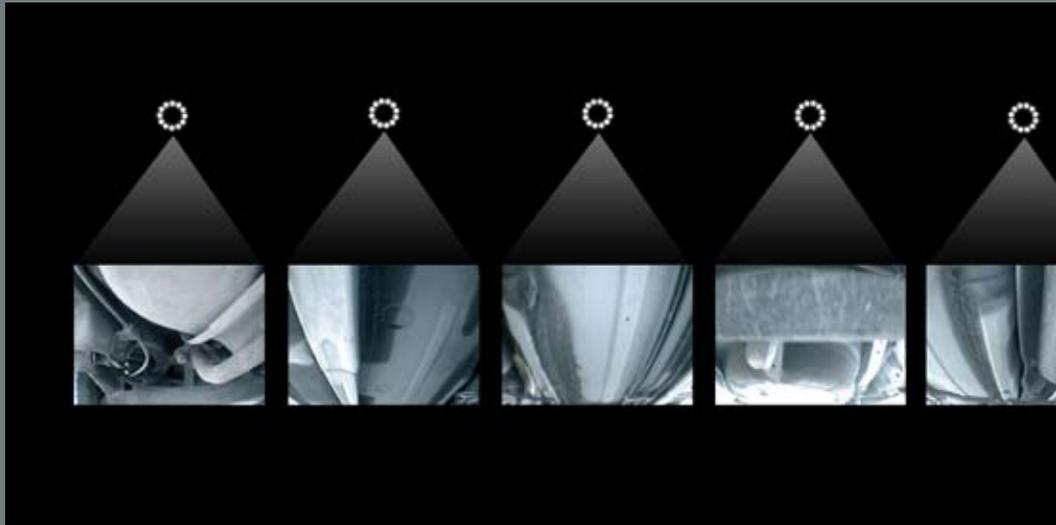
Rugged camera modules have high-intensity bright white LEDs built in.

Permanent and portable systems available

The portable version is installed by just laying the ramp in the inspection areas 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.

CHOOSE THE SYSTEM THAT MEETS YOUR NEEDS



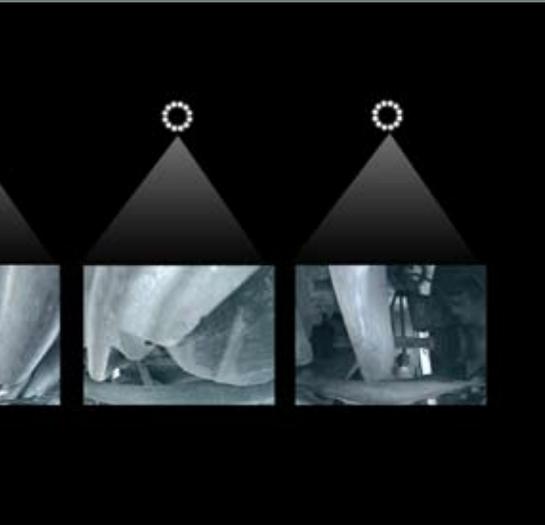
The bright LEDs allow the UVSS to be used in the dead of night without any additional lighting.

Flex Series: Economy and total flexibility

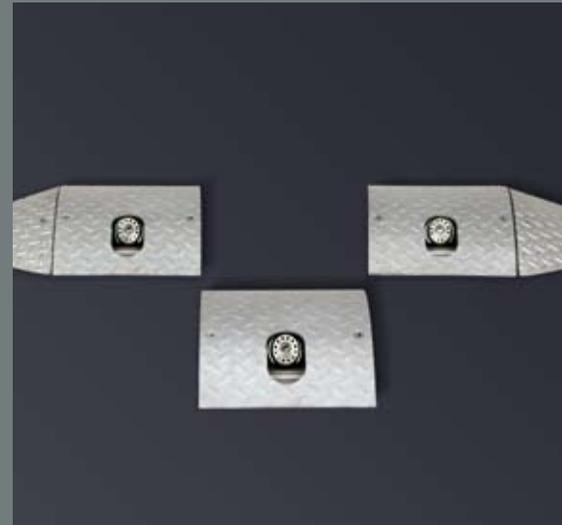
The Flex Series gives you the building blocks to configure the UVSS to suit your application exactly. The system uses 1-foot-wide sections: each section can contain a camera/light module or nothing. You can build a UVSS that is as wide or narrow as you need—and equip it with as many cameras and light modules as required to give you the total picture.

Applications

- Defense Facilities
- Government Buildings
- Embassy Compounds
- Energy Plant Entrances
- Correctional / Prison Facilities for Sally Ports
- Underground Parking Garages
- Residential Complexes
- Palaces and Presidential Residences
- Hotels, Casinos, and Resorts
- Stadiums / Public Event Venues (on Lease/Rental-Based Program)
- Office Complexes
- Insurance Claim Center Drive-Throughs (Single/Two-Camera Portable Systems)
- Borders
- Parking Lots



- Above-surface camera/lighting mounting: no major construction required
- High-resolution long-life color vision system
- LEDs provide bright white, high-intensity light, providing daytime simulation light for undercarriage illumination
- LEDs are rated for 100,000 operating hours
- Easy, hose-down cleaning of camera and LEDs
- 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 labor
- 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 lens

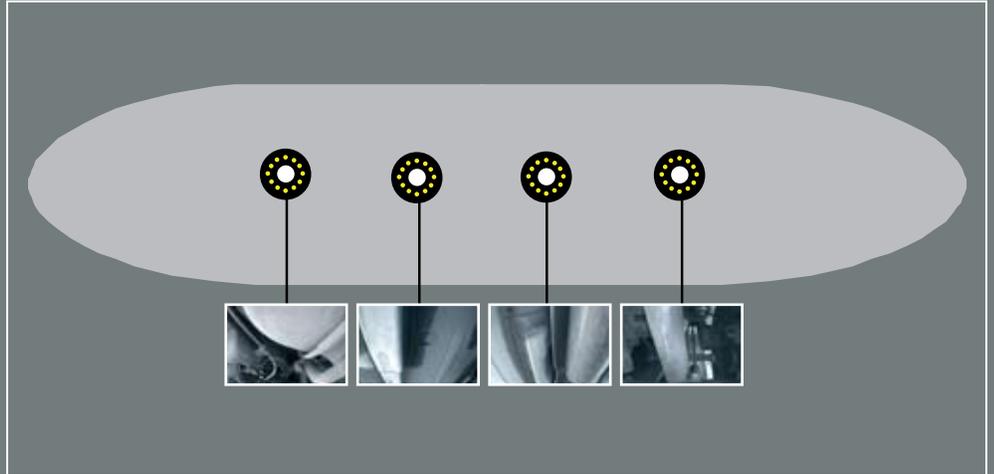


UVSS features

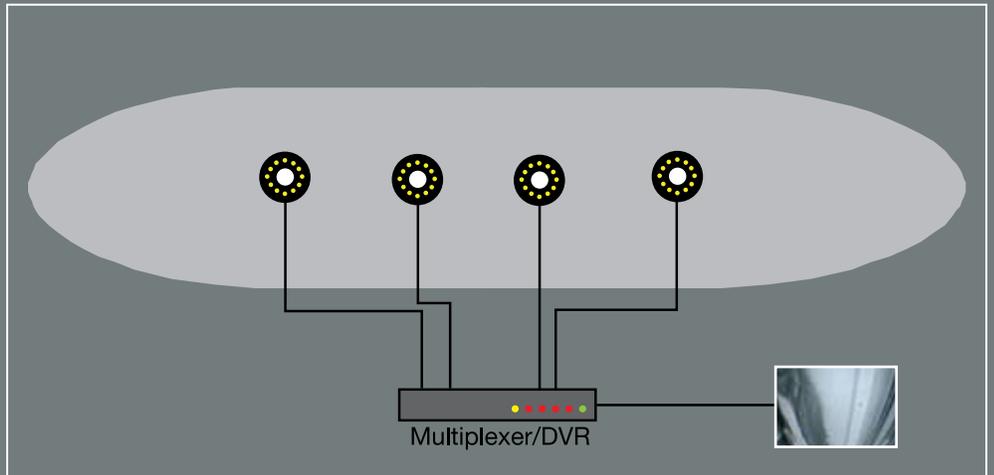
- Designed for rugged terrain, harsh environment, extreme temperature
- Waterproof camera and lights
- ANPR (Automatic License Plate Recognition) compatible
- Driver image camera compatible
- Open architectures for easy integration with existing CCTV system
- Video can be transmitted on IP, wireless, fiber optics, or standard coax
- Standalone DVR or PC-based recording system
- Standard systems come with flat panel LCD display

Typical configurations

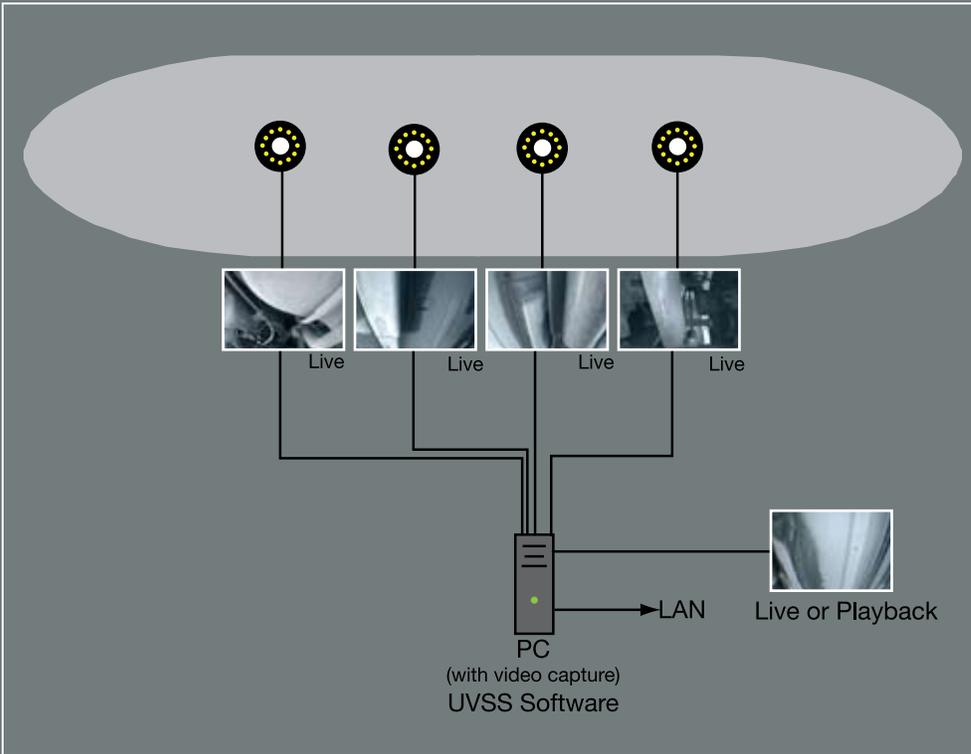
The flexibility of the UVSS allows it to be configured to meet your security inspection needs and your budget.



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



Four cameras can be multiplexed to a single DVR and monitor.



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, DVR for multichannel 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.

Spare Parts

Part Number	Description	Weight	
		kg	lb
RAMP-1	Expansion Section without Camera		
	1-foot wide, includes top cover plate	14.54	31.99
END - 1	End Section		
	Includes top cover plates	8.62	18.96
CAM - 1F	Spare Camera		
	Without Housing and LEDs	-	-
HSG - 1F	Camera Housing with LEDs	-	-
CAB-100F	100-Foot Communication Cable		
	Includes in 5 video mini coaxial cable and two twisted-pair cables for power	16	35.20
PWR -U	Universal Power Supply		
	110 / 220 V input	1	2.20
JCT - 1F	Junction Box		
	For inside ramp for connecting ramp cameras, power and video, includes circuit board	0.5	1.1
JCT - 2F	Junction Box		
	For monitor end for connection of power supply, cables coming from the ramp and BNC connections to monitors. Includes circuit board and up to 4 BNC connectors preassembled	0.5	1.1
LENS -1F	Spare Sapphire Crystal Lens		

Specifications subject to change without notice.

System Information

We can supply complete systems:

- UVSS ramp
- DVR for multichannel recording
- LCD flat-panel monitors
- Video multiplexer
- UVSS software
- Cable assemblies and related hardware

We also offer comprehensive services to help you integrate the UVSS into your building or enterprise security system.

The following pages show typical UVSS configurations and supply specifications.

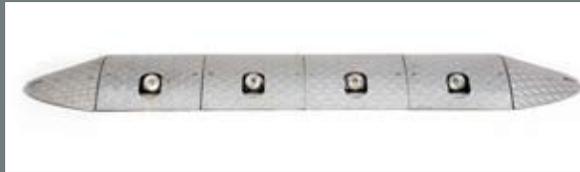
Flex Series 3000



Model Number	Cameras	Camera Configuration	Width mm (in/ft)	Weight kg (lb)	Main Sections	End Sections
UVSS-3200	2	Front or Back*	1374	60.86	3	2
UVSS-3300	3	Front or Back*	(54.1/4.51)	(133.89)		

**All cameras face the same direction, either forward toward on-coming vehicles or backward as vehicles have passed over the ramp.*

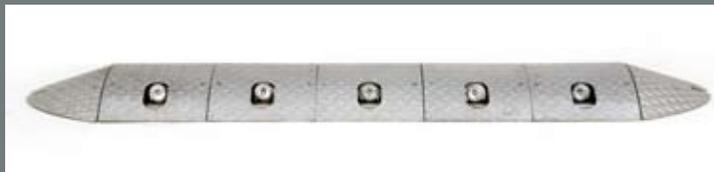
Flex Series 4000



Model Number	Cameras	Camera Configuration	Width mm (in/ft)	Weight kg (lb)	Main Sections	End Sections
UVSS-4200	2	Back or Front				
UVSS-4400	4	Back or Front	1674	75.40	4	2
UVSS-4401	4	2 Front 2 Back	(65.91/5.49)	(165.88)		

**All cameras face the same direction, either forward toward on-coming vehicles or backward as vehicles have passed over the ramp.*

Flex Series 5000



Model Number	Cameras	Camera Configuration	Width mm (in/ft)	Weight kg (lb)	Main Sections	End Sections
UVSS-5300	3	Front or Back*	1974	89.94	5	2
UVSS-5400	5	Front or Back*	(77.72/6.48)	(197.87)		

**All cameras face the same direction, either forward toward on-coming vehicles or backward as vehicles have passed over the ramp.*

Flex Series 6000



Model Number	Cameras	Camera Configuration	Width mm (in/ft)	Weight kg (lb)	Main Sections	End Sections
UVSS-6400	4	Front or Back*				
UVSS-6600	6	Front or Back*	2274 (89.5/7.46)	104.48 (229.86)	6	2
UVSS-6601	6	3 Front 3 Back				

**All cameras face the same direction, either forward toward on-coming vehicles or backward as vehicles have passed over the ramp.*

Flex Series 7000



Model Number	Cameras	Camera Configuration	Width mm (in/ft)	Weight kg (lb)	Main Sections	End Sections
UVSS-7300	3	Front or Back*				
UVSS-7500	5	Front or Back*	2574 (101.3/8.44)	119 (261.84)	7	2

**All cameras face the same direction, either forward toward on-coming vehicles or backward as vehicles have passed over the ramp.*

Flex Series 8000

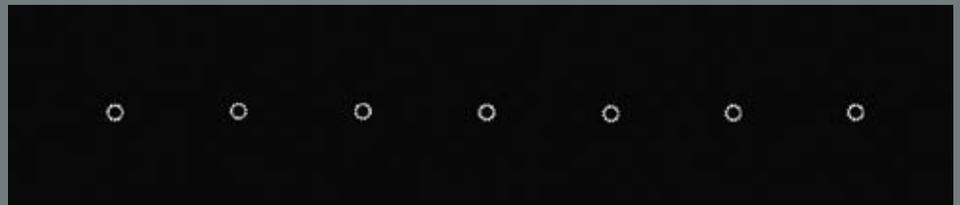


Model Number	Cameras	Camera Configuration	Width mm (in/ft)	Weight kg (lb)	Main Sections	End Sections
UVSS-8400	4	Front or Back*				
UVSS-8600	6	Front or Back*				
UVSS-8601	6	3 Front 3 Back	2874 (113.1/9.43)	133 (293.83)	8	2
UVSS-8800	8	Front or Back*				
UVSS-8801	8	4 Front 4 Back				

**All cameras face the same direction, either forward toward on-coming vehicles or backward as vehicles have passed over the ramp.*

Comm Port Flex Series UVSS Architectural and Engineering Specifications

1. The UVSS shall have the camera and lighting integrated into a single module.
2. The UVSS camera shall provide full-color images.
3. The UVSS shall be modular to allow ramps of various widths to be easily configured. Modules shall consist of end modules and 1-foot-wide expansion modules.
4. Each UVSS section module shall be available with or without a camera/light module.
5. The UVSS camera lights shall be bright white LEDs for illumination.
6. The UVSS LEDs shall provide bright white high-intensity light to simulate bright daylight underneath a dark vehicle in pitch darkness.
7. The UVSS LEDs shall offer a minimum 100,000 hours of operation.
8. The UVSS shall be based on a speed-bump design and not a flat design.
9. The UVSS shall have a weight capacity of 48 tons.
10. The UVSS shall be designed to operate in harsh environments, including extreme of weather.
11. The UVSS shall not be limited as to the length or height of the vehicle being inspected. It shall be designed to identify objects and be used for any type of vehicle irrespective of length or height to the undercarriage.
12. The UVSS shall provide real-time video for viewing the undercarriage of vehicle. It will not be is not a line scan system offering still gray-scale or color images. It shall be designed to simulate a human eye for depth of viewing as if the person is underneath a vehicle inspecting it.
13. The UVSS shall be stand-alone and independent of the CCTV system. It shall provide real-time video for display, not analysis or alarm reporting. The UVSS requires dedicated cameras in the ramp and may or may not be shown on the security drawings.
14. The UVSS shall include optional storage devices with a recording capacity of up to 1 terabyte
15. The UVSS system shall be manufactured out of rust-proof galvanized steel.
16. The UVSS camera assembly shall have a water-proof housing, rated for submersion to a depth of 20 meters minimum.
17. The UVSS shall offer has a lifetime warranty on camera/LED housing and for corrosion.
18. The UVSS system will not have a Camera vault that has to be dug in ground to install, this makes the maintenance and replacement difficult and increases construction cost.
19. Everything that is need for inspection shall be inside the ramp and is a part of the ramp. There shall be no requirement to dig a camera vault or other in-ground structures that make installation and maintenance difficult.
20. The permanent systems have the flexibility to positions of the camera / light modules as in the ramp without the use of any tools.
21. The UVSS ramp shall be designed such a way that the users can add additional camera/lights modules, if required for future needs
22. The UVSS shall have a 2-year standard warranty on parts and labor, with an optional 3-year extended warranty.
23. The UVSS ramp shall users to replace the camera/light modules or metal ramps that have been damaged, within minutes without the need for any tools.
24. The UVSS permanent ramp frame shall be designed for installation on both concrete and asphalt. The inspection ramp shall fit into a slot cut into the road surface that is approximately 6-cm deep to prevent the ramp from moving on the road surface regardless if it is installed on cement or asphalt.
25. The UVSS shall have detailed operating and maintenance manual supplied with each unit.



Seven-camera system at night.

COMMPORT

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