under vehicle inspection systems
under vehicle surveillance systems
license plate recognition
explosion detection
road barriers
video management systems
International Road Dynamics Inc. is an Intelligent Transportation Systems (ITS) company and a world leader in the highway traffic management and in-vehicle systems solutions industry.

IRD was founded by Dr. A.T. Bergan, a world renowned expert in transportation and civil engineering. IRD’s technology base evolved from Weigh-In-Motion (WIM), vehicle detection and vehicle measuring systems.

For more than 30 years, IRD has diversified both from a markets and geographical perspective. IRD Systems are designed and built by a multidisciplinary, customer-focused team which fuses core IRD technology with integrated computing and communications technologies. IRD operates in the following markets:

- HTMS/Traffic Safety Systems
- Commercial Vehicle Enforcement/Operations
- Traffic Data Collection Systems
- Highway Toll Collection Systems
- Border and Security Systems
- Weigh-In-Motion (WIM) Scales & Sensors
- Fleet Telematics
- Service and Maintenance
- Operations

IRD’s corporate headquarters are in Saskatoon, Canada with corporate subsidiaries in the U.S., Chile, Mexico, and India and partnerships in Brazil and China. In addition, IRD is represented in other parts of the world through a network of factory trained distributors. IRD systems are installed around the globe with major installations throughout North and South America, Asia, the Middle East, and Europe.

A Global Solutions Provider

IRD technologies are an important element in enhancing the environmental performance of customers by reducing greenhouse gas emissions. By keeping vehicles moving smoothly, efficiently and safely, IRD’s Intelligent Transportation Systems have resulted in significant pollution reduction and fuel savings on a global basis.

Intelligent Transportation Systems (ITS)

ITS encompasses a synergy between the roadway and the vehicle. IRD systems capture both of these aspects. IRD roadway systems assist agencies to monitor traffic, enforce vehicle regulations, and collect roadway usage fees. With respect to in-vehicle and fleet management, IRD systems enable customers to monitor their vehicle fleet to generate savings, improve driver habits, and to secure the safety and security of their assets.

Quality Service

With an extensive network of service depots and partners, IRD supports projects and products with preventative, scheduled and emergency maintenance. Skilled Engineers and Technicians have the experience and resources to keep the customers’ systems and products operational.
International Road Dynamics Inc. (IRD) is a well established company with a long history of providing security and safety products. We are focused on meeting the fast-evolving needs of military, government and commercial customers around the world. With continued innovations in under vehicle surveillance systems, road barriers, explosion detection, and high definition video management systems, IRD is poised to take its place as a leading defense and security provider for current and future security challenges.

**Military, Federal and State Governments**

Government and military customers turn to IRD to secure their site perimeters, provide electronic access control, and supply integrated video assessment solutions to deliver unmatched site protection. IRD solutions enable these customers to deploy their human resources more efficiently while providing higher overall site security levels.

**Ports and Critical Infrastructure**

Assets critical to national security require the best in protection and reliability. IRD delivers the mission-critical solutions these sites require helping to ensure economic continuity and decreasing risk from intrusion, vandalism and terrorism at sites such as dams, reservoirs, electrical generation and distribution facilities, water and food supply points, etc.

**Commercial**

Corporations today are working harder than ever to protect their most valuable assets—information, processes and people. IRD provides corporate security personnel with incredibly reliable solutions based on scalable, network-based solutions that leverage existing corporate communications infrastructure and result in lower total costs of ownership.

**Industrial**

Industrial facilities around the world trust IRD to meet their growing and demanding security needs. Power generation facilities and chemical plants, as well as petroleum production and storage facilities, use IRD products. We protect their perimeters, control access throughout their facilities, and perform the video assessment that enables security personnel to react immediately to incidents.

**Corrections**

IRD’s Technologies help minimize risk by supplying security, entrance control, visitor management and video surveillance solutions, ensuring perimeter and interior passageways of these high-risk facilities are secure. By deploying IRD solutions, correctional facilities maintain higher levels of situational awareness, faster incident response and increased safety for their personnel.
Our commitment to you

protecting your

Valuable Assets

The list of data, people and assets trusted to government and corporations must be backed by a security and surveillance system that can be trusted. It starts with an understanding of who’s entering, where they are entering and how to deal effectively with those who are not authorized for entry. Everyone and everything needs to be accounted for - from perimeter security to full video access to control and monitor real time activities. IRD provides a full set of integrated solutions that can be configured for facilities of any size or location.

Productivity
Response time is a key component for any military or government security system. When the mission is critical, IRD security solutions, specifically our CPAS UVIS and UVSS series, meet the challenge with complete end-to-end site security. Whether you need an ultra-simple operator interface or your specifications require a robust network configuration and administrative platform, IRD saves you time and streamlines operations to make the most of every minute and every second your security team has.

Cost Savings
Your security budget can dwindle in a hurry because of changes to personnel or upgrades to equipment due to regulation changes. IRD integrates our broad portfolio of products — UVSS/UVIS systems, road barriers, license plate readers, and video management systems — to serve you efficiently and save you money. There are few investments more important for your site than its security, and IRD makes sure your investment is a smart one.

Security
Government assets are under constant threat from all kinds of sources: political, radical, protest, disruption and more. If governments stop running or if security fails, police are dispatched, guards are posted and real economic loss occurs. IRD provides flexible, scalable solutions that put the latest technology to work for you. IRD’s UVIS/UVSS system delivers the mission-critical solutions required to ensure economic continuity and decreased risk from intrusion, vandalism and terrorism.
IRD’s security and surveillance systems are designed to keep a 24-hour watch on property, provide for recorded forensic data, monitor activities in real time, and provide statistical data to security personal for quick and accurate decision making. An important benefit of our security and surveillance system is the ability to capture license plate images while simultaneously doing a numeric conversion of the captures’ plates. From identifying known vehicles and their owners at security gates, to stolen vehicle identification in parking lots, the IRD license plate recognition (LPR) system can improve the safety and security of private or public facilities.

The IRD LPR system enables the capture and recognition of a vehicle’s number plate for data base capture and analysis. The LPR technology is based on the latest OCR image processing that takes video images and transmits them to an LPR DSP or LPR unit processor. This system is an effective and low-maintenance solution that is perfect for monitoring parking lots prone to crimes due to isolated and unstaffed areas. The IRD LPR systems automate license plate reading making it easier for law enforcement, military, defense and commercial organizations to locate vehicles of interest and enforce vehicle entrances and exits to secure areas. The LPR system detects and recognizes vehicle license plates upon motion or I/O triggers.

Intelligent Vehicle Management Platform

The IRD Intelligent Vehicle Management Platform is a comprehensive vehicle recognition software solution, transforming vehicle and license plate data into valuable information for quick, effective decision making. The system helps a wide range of organizations monitor and respond to vehicle movement for efficient day-to-day operations. Security personnel can strategically analyze, identify and assess in real time as well as retrospectively through forensic analysis.

The software provides robust activity reporting, and commands a powerful event and alarm engine for instantaneous exception notification. The system installs, configures and administers Vehicle Recognition Imaging Units and monitors device health.

The software identifies, analyzes and reports on vehicle data captured and is tracked by the imaging units. The heart of the solution is its proprietary intelligence engine, which powers functionality with distinct user advantages—instantly recognizing targeted vehicles of interest and drawing essential insights by analyzing license plate data, vehicle characteristics, movement, time and location.

LPR Cameras

IRD’s LPR cameras are IP based with customized illumination for optimum LPR performance in low light and all weather conditions. The imaging units provide precise efficiency in LOW SPEED and HIGH SPEED use cases such as access control, parking and security, border crossings, and safe city enforcement.

Lane Controllers

Multiple lane control options are available for the LPR for use in control rooms, parking facilities, access control points, border crossings and toll plazas. A compact version is available which is geared toward smaller sites with only one or two lanes.
The CPAS uses color area scanning technology to effectively scan and inspect the undercarriage of vehicles to search and analyze images for explosive devices, suspicious objects or contraband such as drugs and weapons. The system is ideal for government, military, transportation and corporation facilities requiring security checkpoints for vehicles such as vans, tractor trailers, buses and passenger vehicles.

Seeing is securing in real time
With the CPAS Series, you can view in real-time and full color for the entire length of the vehicle. There is no waiting like with other systems and no need for an expensive control units. See it live with no delay. Full high definition color, even with vehicles moving up to 75 KMPH (46.9 MPH). The scanning cameras are available from 500FPS up to 900FPS.

Built rugged for long life
This heavy-duty system comes with built-in scanner and light arrangements. The weight-bearing capacity for standard systems is 78 tons with an optional 110 ton version available upon request. Harsh environments, rugged terrain and extreme temperatures were taken into consideration while designing this system.

Unmatched integration flexibility
Transmit your video and integrate it with automatic license plate recognition and driver image-capture cameras. The CPAS UVIS system can be configured with motion detection or loop detection so that you only record “live” events.

Sharp images provide the total picture
A high-resolution digital color camera gives you clear, sharp images. Bright white, high-intensity LED-based lighting illuminates the vehicle’s undercarriage so details aren’t lost in shadows. With the full length light arrangement and specially designed camera angle the wheel wells and other undercarriage details are easy to capture so there is no need to add any additional auxiliary cameras for hard-to-view areas.
## CPAS-UVIS Ordering Information

<table>
<thead>
<tr>
<th>Model No</th>
<th>System Description</th>
<th>Speed KMPH</th>
<th>Speed MPH</th>
<th>Image Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPAS-2001</td>
<td>System Includes: UVIS Scanner Camera, LED Lighting Modules, Ground Loop, Ground Loop Controller, Data Acquisition Module, Power Supply, PC Controller Unit, Cabling, System Operating Software, System Housing with framing. System is capable of up to 500 FPS and will handle up to 45 KPH of Monochrome Composite Image</td>
<td>45</td>
<td>28.125</td>
<td>monochrome</td>
</tr>
<tr>
<td>CPAS-3001</td>
<td>System Includes: UVIS Scanner Camera, LED Lighting Modules, Ground Loop, Ground Loop Controller, Data Acquisition Module, Power Supply, PC Controller Unit, Cabling, System Operating Software, System Housing with framing. System is capable of up to 700 FPS and will handle up to 65 KPH of Monochrome Composite Image</td>
<td>65</td>
<td>40.625</td>
<td>monochrome</td>
</tr>
<tr>
<td>CPAS-4001</td>
<td>System Includes: UVIS Scanner Camera, LED Lighting Modules, Ground Loop, Ground Loop Controller, Data Acquisition Module, Power Supply, PC Controller Unit, Cabling, System Operating Software, System Housing with framing. System is capable of up to 900 FPS and will handle up to 75 KPH of Monochrome Composite Image</td>
<td>75</td>
<td>46.875</td>
<td>monochrome</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model No</th>
<th>System Description</th>
<th>Speed KMPH</th>
<th>Speed MPH</th>
<th>Image type</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPAS-2101</td>
<td>System Includes: UVIS Scanner Camera, LED Lighting Modules, Ground Loop, Ground Loop Controller, Data Acquisition Module, Power Supply, PC Controller Unit, Cabling, System Operating Software, System Housing with framing. System is capable of up to 500 FPS and will handle up to 45 KPH of Color Composite Image</td>
<td>45</td>
<td>28.125</td>
<td>color</td>
</tr>
<tr>
<td>CPAS-3101</td>
<td>System Includes: UVIS Scanner Camera, LED Lighting Modules, Ground Loop, Ground Loop Controller, Data Acquisition Module, Power Supply, PC Controller Unit, Cabling, System Operating Software, System Housing with framing. System is capable of up to 700 FPS and will handle up to 65 KPH of Color Composite Image</td>
<td>65</td>
<td>40.625</td>
<td>color</td>
</tr>
<tr>
<td>CPAS-4101</td>
<td>System Includes: UVIS Scanner Camera, LED Lighting Modules, Ground Loop, Ground Loop Controller, Data Acquisition Module, Power Supply, PC Controller Unit, Cabling, System Operating Software, System Housing with framing. System is capable of up to 900 FPS and will handle up to 75 KPH of Color Composite Image</td>
<td>75</td>
<td>46.875</td>
<td>color</td>
</tr>
</tbody>
</table>
choose the system that meets your needs

If your premise is worth securing, it’s worth looking into IRD’s FLEX series of under vehicle surveillance and inspection solutions. Our FLEX series of UVSS and UVIS solutions are designed to scan, monitor, and digitally record crisp, clear digital video images and videos of the entire width of a vehicle’s undersides—all with one system.

Careful integration of components makes IRD’s systems cost-effective and convenient solutions for checking passenger vehicles, vans, buses, semi-tractor trucks and trailers, and more. They are ideal solutions 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 a digital video recording system capable of recording and displaying simultaneously moving or static images. The system delivers the full picture of the vehicle’s undercarriage (no matter how long the vehicle) for a fraction of the cost of less capable systems.

Unmatched integration flexibility
Each FLEX 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 FLEX 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.

Made to perform under extreme conditions
The heavy-duty, low-profile galvanized steel ramps are rated at 78 tons or an optional 110-ton capacity; all 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.
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 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.

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

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

Modular components allow expansion from two to eight segments to fit any needs.
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

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Weight (kg)</th>
<th>Weight (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAMP-1</td>
<td>Expansion Section without Camera</td>
<td>14.54</td>
<td>31.99</td>
</tr>
<tr>
<td></td>
<td>1-foot wide, includes top cover plate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>END - 1</td>
<td>End Section</td>
<td>8.62</td>
<td>18.96</td>
</tr>
<tr>
<td></td>
<td>Includes top cover plates</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAM - 1F</td>
<td>Spare Camera</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Without Housing and LEDs</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>HSG - 1F</td>
<td>Camera Housing with LEDs</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>CAB-100F</td>
<td>100-Foot Communication Cable</td>
<td>16</td>
<td>35.20</td>
</tr>
<tr>
<td></td>
<td>Includes in 5 video mini coaxial cable and two twisted-pair cables for power</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PWR -U</td>
<td>Universal Power Supply</td>
<td>1</td>
<td>2.20</td>
</tr>
<tr>
<td></td>
<td>110 / 220 V input</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JCT - 1F</td>
<td>Junction Box</td>
<td>0.5</td>
<td>1.1</td>
</tr>
<tr>
<td></td>
<td>For inside ramp for connecting ramp cameras, power and video, includes circuit board</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JCT - 2F</td>
<td>Junction Box</td>
<td>0.5</td>
<td>1.1</td>
</tr>
<tr>
<td></td>
<td>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</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LENS -1F</td>
<td>Spare Sapphire Crystal Lens</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Cameras</th>
<th>Camera Configuration</th>
<th>Width mm (in/ft)</th>
<th>Weight kg (lb)</th>
<th>Main Sections</th>
<th>End Sections</th>
</tr>
</thead>
<tbody>
<tr>
<td>UVSS-3300</td>
<td>3</td>
<td>Front or Back*</td>
<td>1374 (54.1/4.51)</td>
<td>60.86 (133.89)</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>UVSS-3331</td>
<td>6 (3+3)</td>
<td>Front / Back</td>
<td></td>
<td></td>
<td>3</td>
<td>2</td>
</tr>
</tbody>
</table>

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

### Flex Series 4000

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Cameras</th>
<th>Camera Configuration</th>
<th>Width mm (in/ft)</th>
<th>Weight kg (lb)</th>
<th>Main Sections</th>
<th>End Sections</th>
</tr>
</thead>
<tbody>
<tr>
<td>UVSS-4400</td>
<td>4</td>
<td>Front or Back*</td>
<td>1674 (65.88/5.49)</td>
<td>75.40 (133.89)</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>UVSS-4441</td>
<td>8 (4+4)</td>
<td>Front / Back</td>
<td></td>
<td></td>
<td>4</td>
<td>2</td>
</tr>
</tbody>
</table>

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

### Flex Series 5000

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Cameras</th>
<th>Camera Configuration</th>
<th>Width mm (in/ft)</th>
<th>Weight kg (lb)</th>
<th>Main Sections</th>
<th>End Sections</th>
</tr>
</thead>
<tbody>
<tr>
<td>UVSS-5300</td>
<td>3</td>
<td>Front or Back*</td>
<td>1974 (77.72/6.48)</td>
<td>89.94 (197.87)</td>
<td>5</td>
<td>2</td>
</tr>
<tr>
<td>UVSS-5331</td>
<td>6 (3+3)</td>
<td>Front/Back</td>
<td></td>
<td></td>
<td>5</td>
<td>2</td>
</tr>
<tr>
<td>UVSS-5500</td>
<td>5</td>
<td>Front or Back*</td>
<td></td>
<td></td>
<td>5</td>
<td>2</td>
</tr>
<tr>
<td>UVSS-5551</td>
<td>10 (5+5)</td>
<td>Front/Back</td>
<td></td>
<td></td>
<td>5</td>
<td>2</td>
</tr>
</tbody>
</table>

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

All systems come with 110/220V power supplies, connection peripherals and are set for ready-to-use.

Add the following descriptor at the end of each part number for camera type:

- P for PAL
- N for NTSC
**Flex Series 6000**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Cameras</th>
<th>Camera Configuration</th>
<th>Width mm (in/ft)</th>
<th>Weight kg (lb)</th>
<th>Main Sections</th>
<th>End Sections</th>
</tr>
</thead>
<tbody>
<tr>
<td>UVSS-6400</td>
<td>4</td>
<td>Front or Back*</td>
<td>2274 (89.5/7.46)</td>
<td>104.48 (229.86)</td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td>UVSS-6441</td>
<td>8 (4+4)</td>
<td>Front/Back</td>
<td></td>
<td></td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td>UVSS-6600</td>
<td>6</td>
<td>Front or Back*</td>
<td></td>
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<td>6</td>
<td>2</td>
</tr>
<tr>
<td>UVSS-6661</td>
<td>12 (6+6)</td>
<td>Front/Back</td>
<td></td>
<td></td>
<td>6</td>
<td>2</td>
</tr>
</tbody>
</table>

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

**Flex Series 7000**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Cameras</th>
<th>Camera Configuration</th>
<th>Width mm (in/ft)</th>
<th>Weight kg (lb)</th>
<th>Main Sections</th>
<th>End Sections</th>
</tr>
</thead>
<tbody>
<tr>
<td>UVSS-7300</td>
<td>3</td>
<td>Front or Back*</td>
<td>2574 (101.3/8.44)</td>
<td>119 (261.84)</td>
<td>7</td>
<td>2</td>
</tr>
<tr>
<td>UVSS-7331</td>
<td>6 (3+3)</td>
<td>Front/Back</td>
<td></td>
<td></td>
<td>7</td>
<td>2</td>
</tr>
<tr>
<td>UVSS-7500</td>
<td>5</td>
<td>Front or Back*</td>
<td></td>
<td></td>
<td>7</td>
<td>2</td>
</tr>
<tr>
<td>UVSS-7700</td>
<td>7</td>
<td>Front or Back*</td>
<td></td>
<td></td>
<td>7</td>
<td>2</td>
</tr>
</tbody>
</table>

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

**Flex Series 8000**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Cameras</th>
<th>Camera Configuration</th>
<th>Width mm (in/ft)</th>
<th>Weight kg (lb)</th>
<th>Main Sections</th>
<th>End Sections</th>
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<tbody>
<tr>
<td>UVSS-8400</td>
<td>4</td>
<td>Front or Back*</td>
<td>2874 (113.1/9.43)</td>
<td>133 (293.83)</td>
<td>8</td>
<td>2</td>
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<tr>
<td>UVSS-8441</td>
<td>8 (4+4)</td>
<td>Front/Back</td>
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<td></td>
<td>8</td>
<td>2</td>
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<tr>
<td>UVSS-8600</td>
<td>6</td>
<td>Front or Back*</td>
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<td></td>
<td>8</td>
<td>2</td>
</tr>
<tr>
<td>UVSS-8861</td>
<td>12 (6+6)</td>
<td>Front/Back</td>
<td></td>
<td></td>
<td>8</td>
<td>2</td>
</tr>
<tr>
<td>UVSS-8800</td>
<td>8</td>
<td>Front or Back*</td>
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<td></td>
<td>8</td>
<td>2</td>
</tr>
<tr>
<td>UVSS-8881</td>
<td>16</td>
<td>Front/Back</td>
<td></td>
<td></td>
<td>8</td>
<td>2</td>
</tr>
</tbody>
</table>

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

All systems come with 110/220V power supplies, connection peripherals and are set for ready-to-use.

Add the following descriptor at the end of each part number for camera type:

- P for PAL
- N for NTSC
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 (78-ton or 110-ton capacity optional).
10. The UVSS shall be designed to operate in harsh environments, including extremes 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 a line scan system offering still grayscale 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 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 needed 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 position the camera / light modules in the ramp without the use of any tools.
21. The UVSS ramp shall be designed in 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 allow 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 manuals supplied with each unit.
Benefits of a FLEX UVSS System

Economy and total flexibility
IRD’s FLEX Series gives you the building blocks to configure to suit your application exactly. The system uses 1-foot-wide (30 cm) 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
- Police Stations
- Shopping Centers
- 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 / Ports-of-Entry
- Parking Lots

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
- 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 78-ton or 110-ton (70-tonne or 100-tonne) optional 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 (30 cm) increments
- Each ramp expansion section can be configured with or without camera
- Scratch proof, user-replaceable camera protective lens