



UVIS
Under Vehicle Inspection Systems

**ADVANCING
SECURITY
INTELLIGENCE**

www.IRDINC.com

Intelligent Optical Threat Detection

International Road Dynamics Inc. (IRD) is a global leader in the design, development and deployment of intelligent physical access control and security systems for security and defense. Our systems are used worldwide at military bases, government buildings, embassy compounds, industrial facilities, stadiums, residential complexes, and border ports-of-entry.

INTERNATIONAL ROAD DYNAMICS INC.



UVAS

Under Vehicle Area Scanner



DETECT

- Color area scanning technology
- Automatic change detection module for detecting foreign objects under vehicles

IDENTIFY

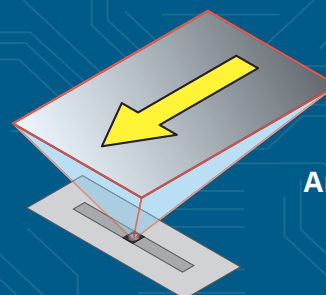
- Rapid scanning speed with ability to scan images at up to 900 frames per second and at up to 75 km/h
- Automatic Number Plate Recognition (ANPR) supporting multiple languages and high resolution driver image camera
- Integration with video management, access control, and biometrics
- Advanced Image analysis features including inverse, brightness and contrast

CONTROL

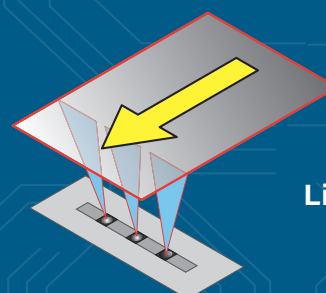
- Rated for all weather conditions with IP-68 rating and unique spherical camera enclosure
- Heavy-duty design supports 78 tons (110 tons optional) weight capacity
- No limits on length of vehicle scanning
- Multilingual support
- Support for multiple traffic lanes
- Integration with bollards, gate arms, traffic lights, weigh-in-motion and vehicle classification

Security Requires Clarity

IRD's UVAS models use area scanning technology to produce a better image of the undercarriage of vehicles resulting in advanced threat detection. Many competing products use line scanning cameras that provide poor coverage and miss important details.



Area Scanning



Line Scanning



IRD UVAS Software

LICENSE PLATE NUMBER

DETAILED RECORD

DRIVER PROFILE PICTURE

LICENSE PLATE IMAGE

LIVE DRIVER IMAGE

EVENT LOG

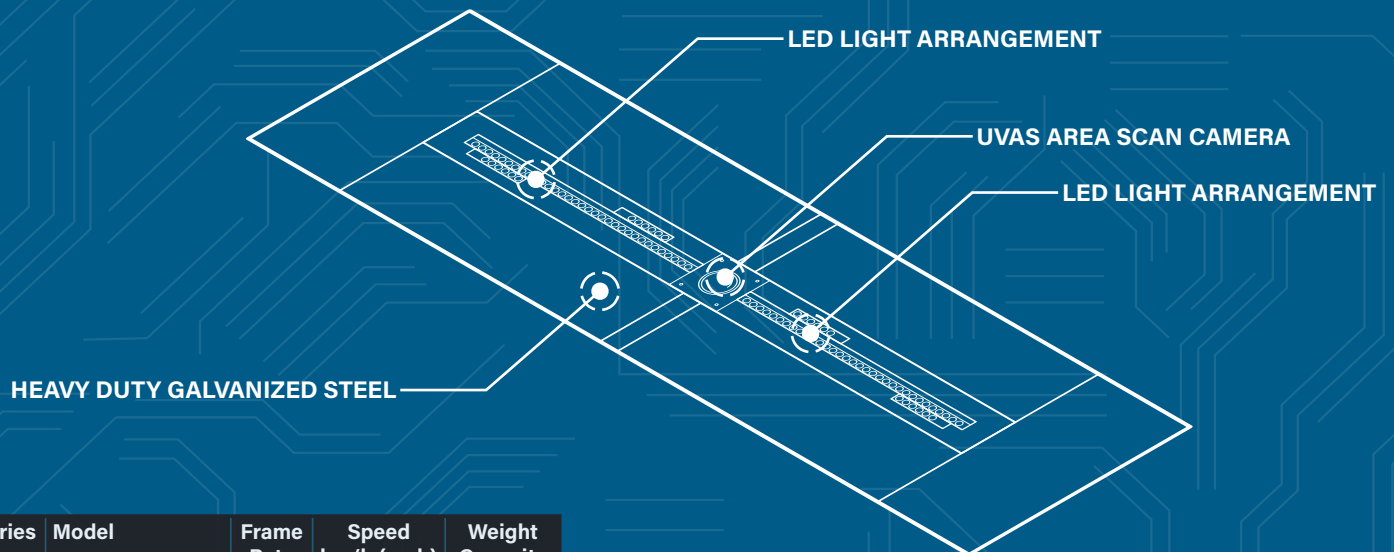
The screenshot displays the IRD UVAS Software interface. At the top, there are status indicators for Loop Detector, LPR, UVIS, Driver Camera, and Light. The main area is divided into several sections: a 'Driver Image' section showing a live driver image, a 'License Image' section showing a license plate image, a 'Live Driver Image' section showing a grid of driver images, and a 'Under Vehicle Image' section showing a high-resolution color scan of the undercarriage. On the left, there are input fields for 'First Name', 'Last Name', 'LPR No.', 'Make', 'Model', 'Color', 'Date', 'Time', 'Year', and 'List'. Below these fields is an 'Update' button. On the right, there is a 'Last Entries' table with columns for 'Date Time', 'List', and 'Lpr#'. At the bottom, there are 'Image Analysis Tools' including 'Brightness', 'Contrast', and 'Zoom' sliders.

CURRENT ENTRY LIST

HIGH-RESOLUTION COLOR SCAN OF UNDERCARRIAGE

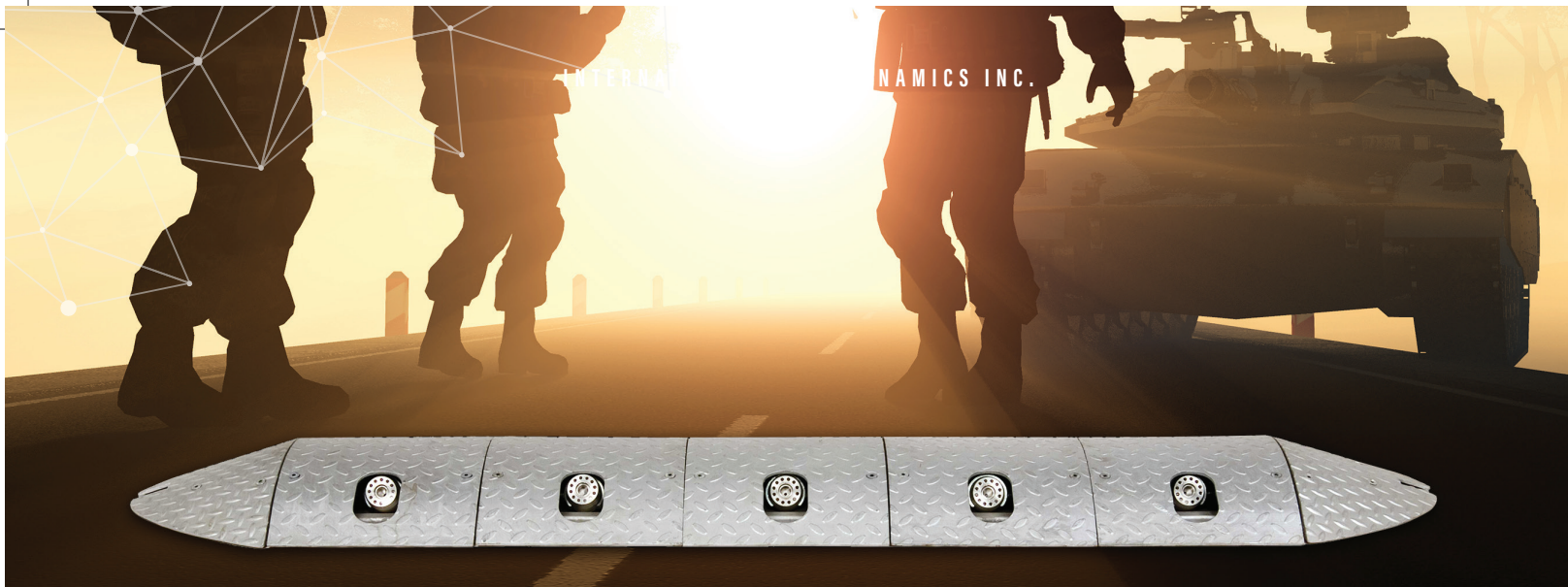
IMAGE ANALYSIS TOOLS

IRD Under Vehicle Area Scanner (UVAS)



Series	Model	Frame Rate	Speed km/h (mph)	Weight Capacity (tons)
2	220 - B/W 221 - Color	500	45 (28)	78
3	330 - B/W 331 - Color	700	65 (40)	78
4	440 - B/W 441 - Color	900	75 (49)	78





DETECT

- High-resolution color video of the undercarriage
- Scalable system for different lane sizes
- Integrates with alarm management system

IDENTIFY

- Real-time video of the undercarriage
- Bright white LED lighting modules for undercarriage rated for 100,000 hours of operation
- Automatic number plate recognition and high-resolution driver image camera
- Integration with video management and biometrics

CONTROL

- Transmit and record video over IP, fiber optics, coax, or wireless
- Video recording software with PC or DVR recording configuration
- Permanent and portable configurations
- Rated for all weather conditions with IP-68 rating and weatherproof enclosures
- Heavy-duty design supports up to 78 tons (110 tons optional) weight capacity



Series 3



Series 4



Series 5



Series 6

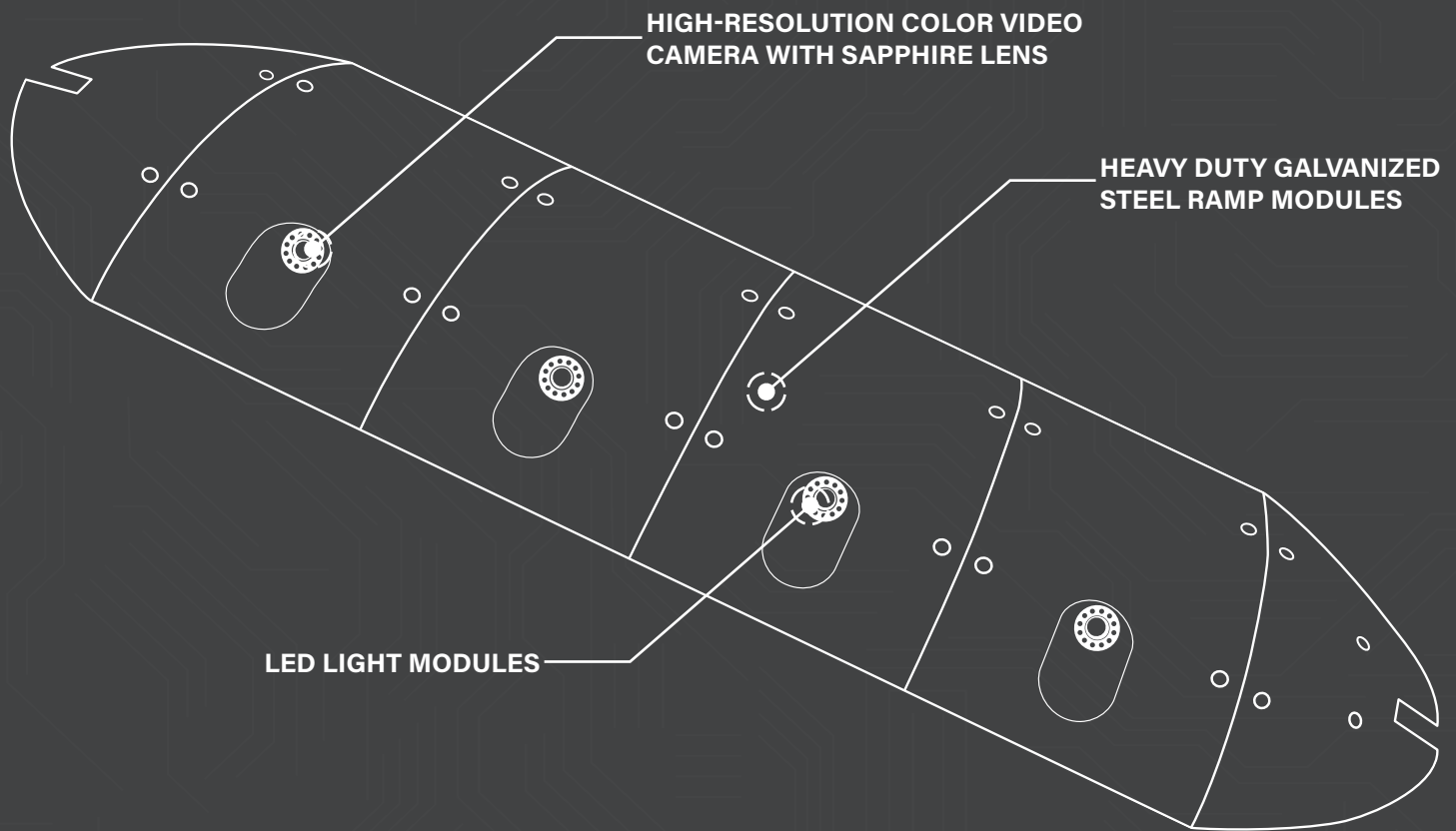


Series 7



Series 8





Series	Single Direction Models	Bi-directional Models*	Width mm (in)	Weight kg (lb)	Main Sections	End Sections
3	330 - 3 cameras	331 - 6 cameras	1374 (55)	61 (134)	3	2
4	440 - 4 cameras	441 - 8 cameras	1674 (66)	76 (168)	4	2
5	530 - 3 cameras 550 - 5 cameras	531 - 6 cameras 551 - 10 cameras	1974 (78)	90 (198)	5	2
6	640 - 4 cameras 660 - 6 cameras	641 - 8 cameras 661 - 12 cameras	2274 (90)	105 (230)	6	2
7	730 - 3 cameras 750 - 5 cameras 770 - 7 cameras	731 - 6 cameras	2574 (102)	119 (261)	7	2
8	840 - 4 cameras 860 - 6 cameras 880 - 8 cameras	841 - 8 cameras 861 - 12 cameras 881 - 16 cameras	2874 (114)	133 (294)	8	2

* Bi-directional models include cameras facing forward and backward to scan vehicles crossing the UVSS in both directions.



HH-300

Hand-Held Under Vehicle Inspection Camera

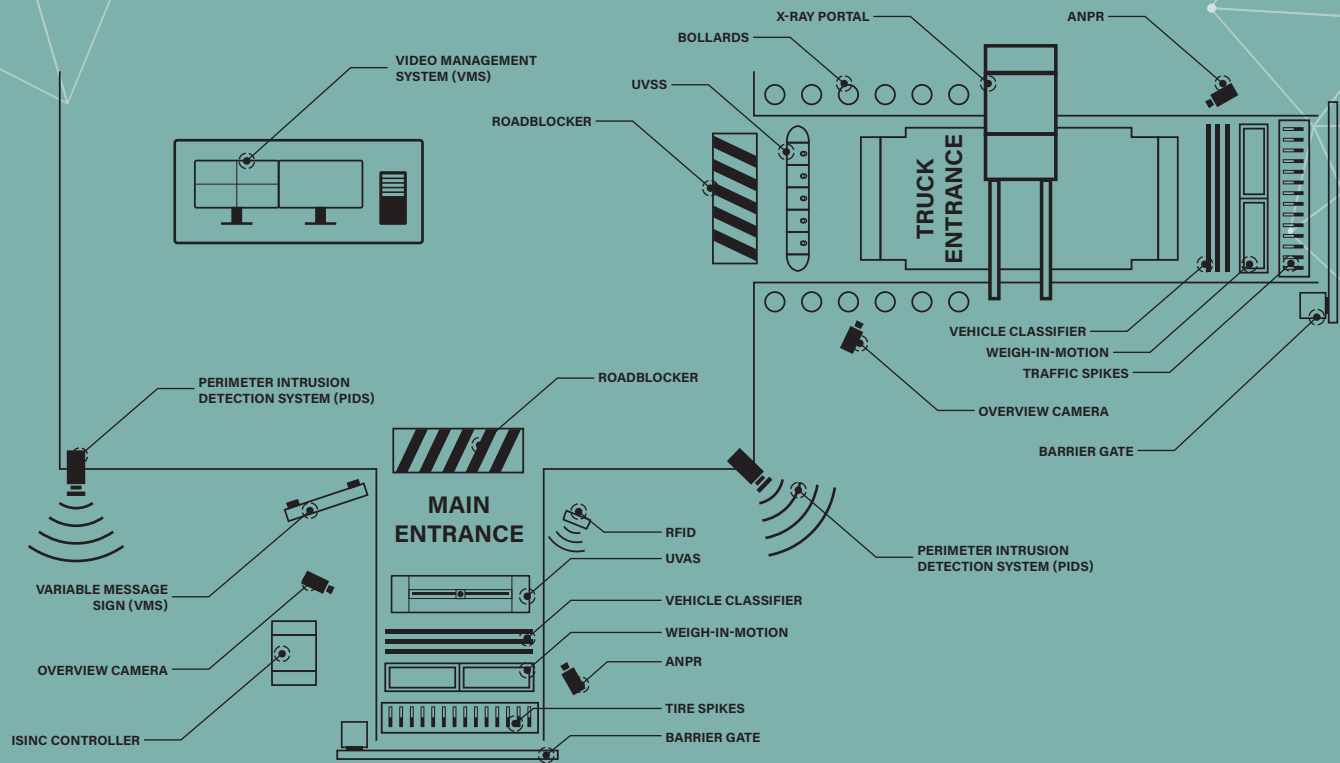
FEATURES

- Ultra-portable under vehicle surveillance kit with HD display
- 2.5 megapixel dolly camera with LED lights
- 3.0 megapixel flex pole camera with LED lights
- 7" HD LCD display with integrated brightness adjustment
- Supports up to 64 GB SD storage card for real-time video and image capture
- H.264 video compression
- Telescopic pole extends to 2 meters
- Locking grips and LCD mounting cradle
- Dolly comes with durable omni-directional wheels with wear-resistant tires
- Rugged aluminum carrying case for quick deployment
- Rechargeable battery provides up to 10 hours of continuous operations



**Compact Rugged Aluminum Case
for Immediate Deployment**





iPACS

Intelligent Physical Access Control & Security

DETECT

Sensors and Systems

- Detect optical threats with machine vision
- Identify vehicles with intelligent Automatic Number Plate Recognition (ANPR) and Automatic Vehicle Identification (AVI)
- Under Vehicle Surveillance System (UVSS) in permanent and portable configurations
- Statistical traffic data
- Road blockers and barricades
- Under Vehicle Area Scanner (UVAS)
- Weigh-In-Motion (WIM)
- Permanent and portable options in dynamic and static configurations
- Vehicle dimensioning and over height detection
- Perimeter Intrusion Detection Systems (PIDS)
- High Energy Detection Systems (HEDS)
- Advanced wrong-way and over-speed detection

IDENTIFY

Scanning and Dimensioning

- Reduce idle time
- Automated screening and sorting
- Automated detection of anomalies and threats using Intelligent optical threat detection
- Vehicle footprint
- Vehicle classification

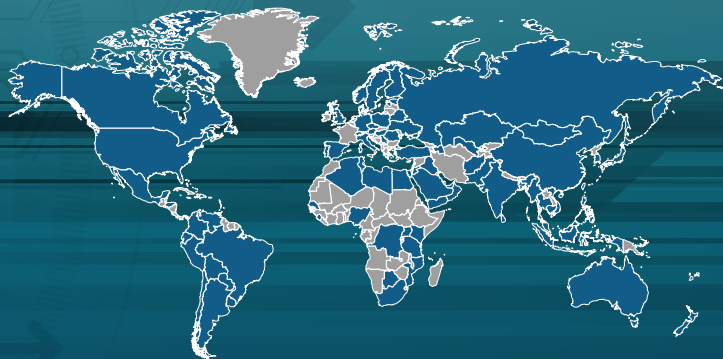
CONTROL

Optimizing Security Operations

- Increase efficiency
- Expedite processing of compliant and authorized users
- Integrate complementary operations
- Biometrics
- Video and Credential Management Systems
- Improve customer service



IRD Installations Worldwide



- Over 10,000 Toll Lanes
- Over 100 Million Vehicles Classified/Day

MAINTENANCE & SERVICE SOLUTIONS

Powered by IRD's iMMS

Operations Management

- On-site and remote diagnostics
- Site assessment and design recommendations
- Self-diagnostics and notification
- Cloud-based performance and status monitoring

Monitoring and Auto-calibration

- Remote monitoring
- 24/7 continuous operations
- Sensor, electronics and system health
- Timely dispatch of maintenance, and service



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IRD products and components are protected by one or more worldwide patents and/or trademarks. IRD reserves the right to change, modify, or improve its products at anytime without notice.

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