



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.



UVAS

Under Vehicle Area Scanner

DETECT

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

IDENTIFY

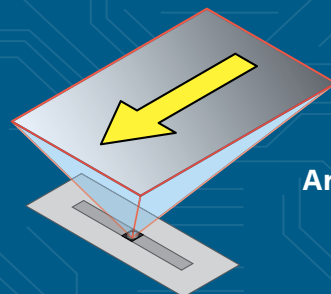
- Rapid scanning speed with ability to scan images at up to 900 frames per second and at up to 75 km/h
- Automatic Number Plate Recognition (ANPR) supporting multiple languages and high resolution driver image camera
- Integration with video management, access control, and biometrics
- Advanced Image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

CONTROL

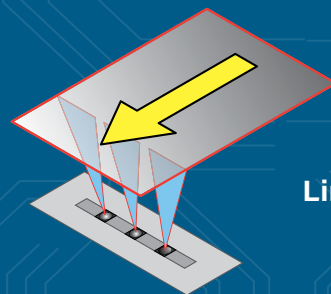
- Rated for all weather conditions with IP-68 rating and unique spherical camera enclosure
- Heavy-duty design supports 78 tons (110 tons optional) weight capacity
- No limits on length of vehicle scanning
- Multilingual support
- Support for multiple traffic lanes
- Integration with bollards, gate arms,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



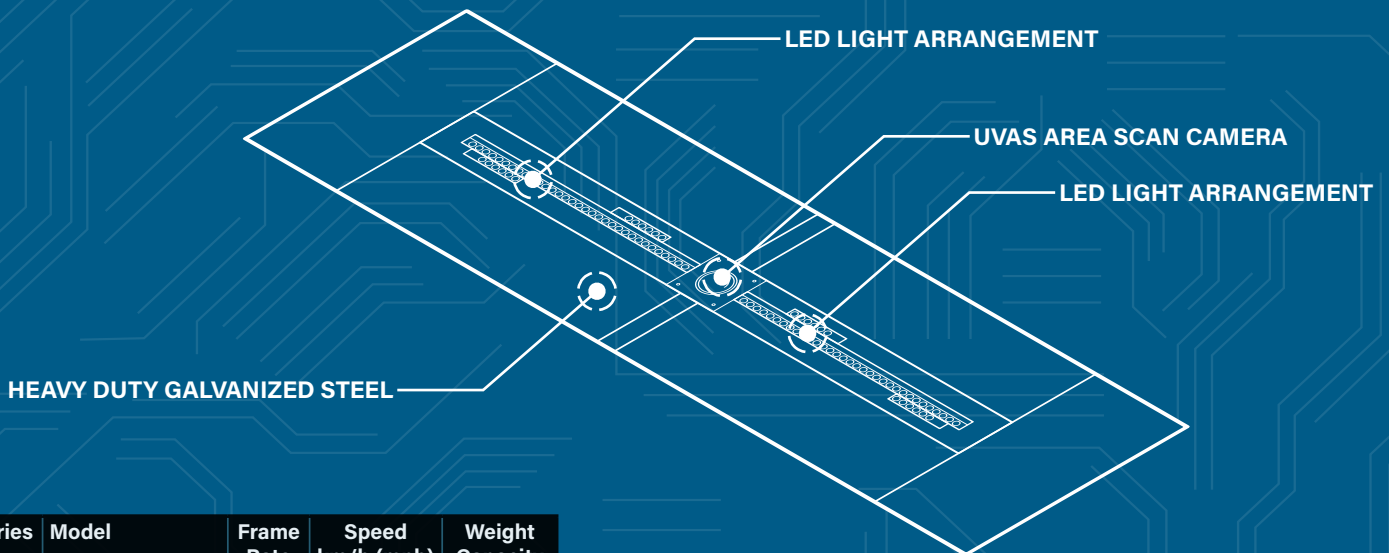
Line Scanning

IRD UVAS Software

The screenshot shows the IRD UVAS Software interface. Callouts point to the following features:

- LICENSE PLATE NUMBER**: Points to the license plate number 'P955BM' in the top left.
- DETAILED RECORD**: Points to the 'Detailed Record' section on the left.
- DRIVER PROFILE PICTURE**: Points to the driver's profile picture in the top left.
- LICENSE PLATE IMAGE**: Points to the license plate image in the top left.
- LIVE DRIVER IMAGE**: Points to the live driver image in the top right.
- EVENT LOG**: Points to the event log table on the right.
- CURRENT ENTRY LIST**: Points to the 'Current Entry List' table at the bottom left.
- IMAGE ANALYSIS TOOLS**: Points to the 'Image Analysis Tools' section at the bottom.
- HIGH-RESOLUTION COLOR SCAN OF UNDERCARRIAGE**: Points to the large image of the vehicle's undercarriage scan at the bottom.

IRD Under Vehicle Area Scanner (UVAS)



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



DETECT



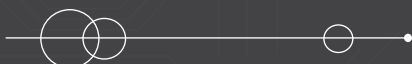
- High-resolution color video of the undercarriage
- Scalable system for different lane sizes
- Integrates with alarm management system

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

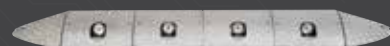
CONTROL



- 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



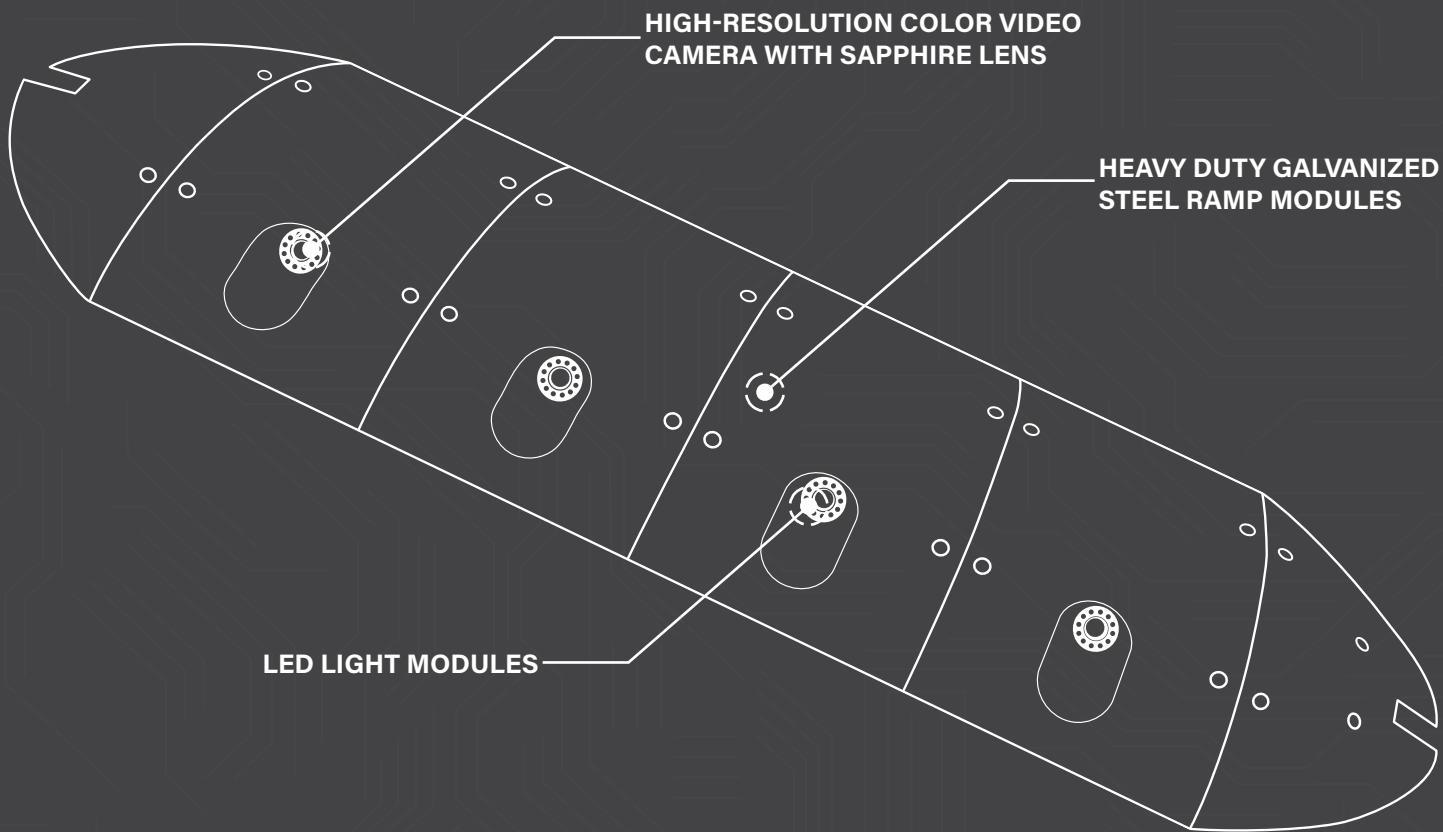
Series 6



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 (134)	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

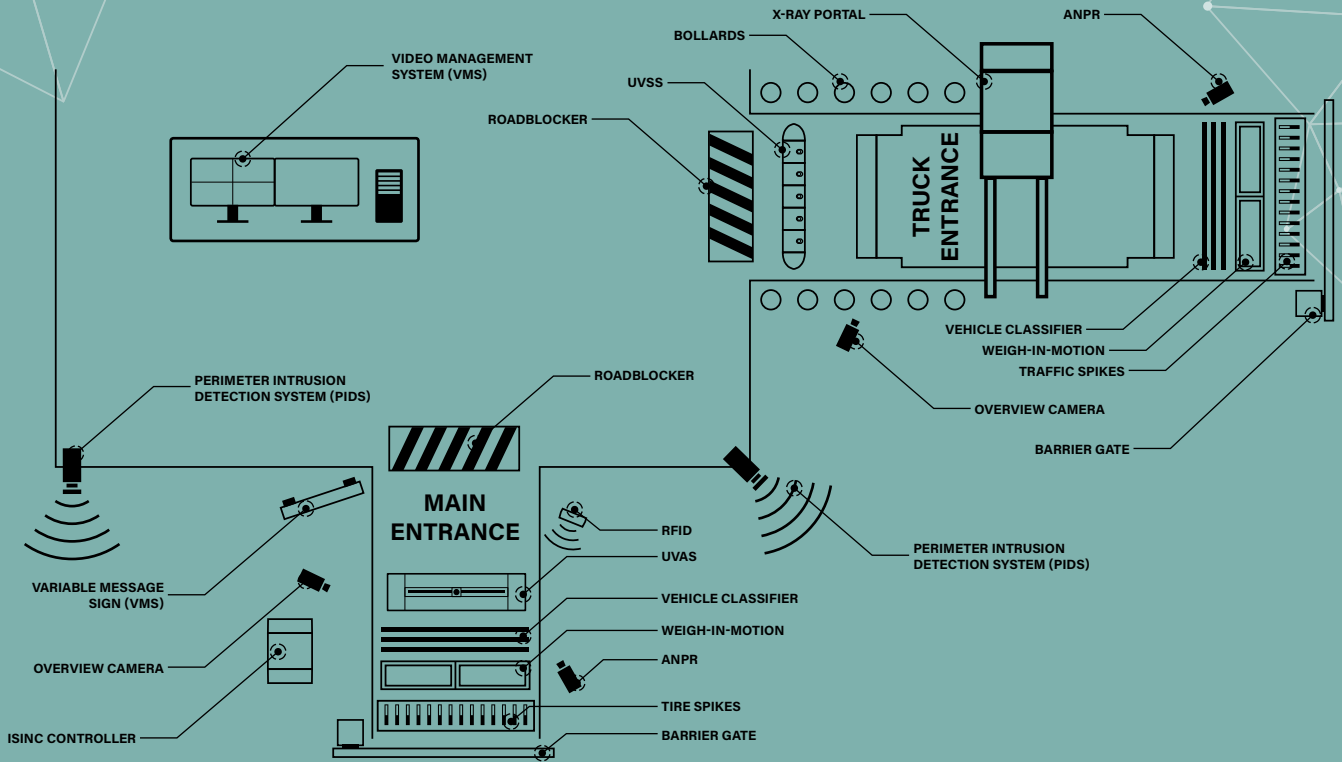
Hand-Held Under Vehicle Inspection Camera

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

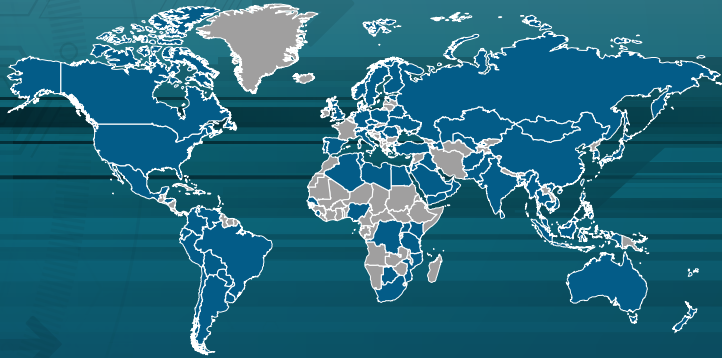
- Reduce idle time
- Automated screening and sorting
- Automated detection of anomalies and threats using Intelligent optical threat detection
- Vehicle footprint
- Vehicle classification

CONTROL

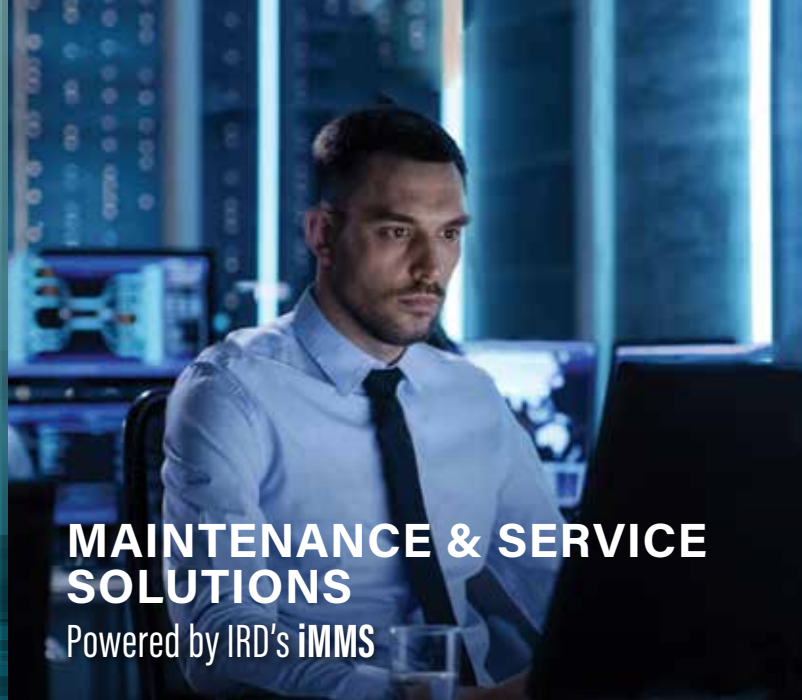
Optimizing Security Operations

- 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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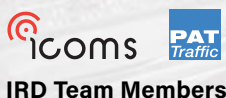
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