PRODUCT CATALOG

YEAR 2024

Inspectara TECHNOLOGIES

WWW.INSPECTARA.COM

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THE COMPANY

Mission

At Inspectara, our mission is to empower homeowners and businesses by providing comprehensive, reliable, and cutting-edge inspection services. We are committed to ensuring the safety, efficiency, and longevity of properties through detailed assessments and expert recommendations. By leveraging advanced technology and professional expertise, we strive to deliver unparalleled service and peace of mind to our clients, fostering trust and transparency in every inspection we conduct.

Vision

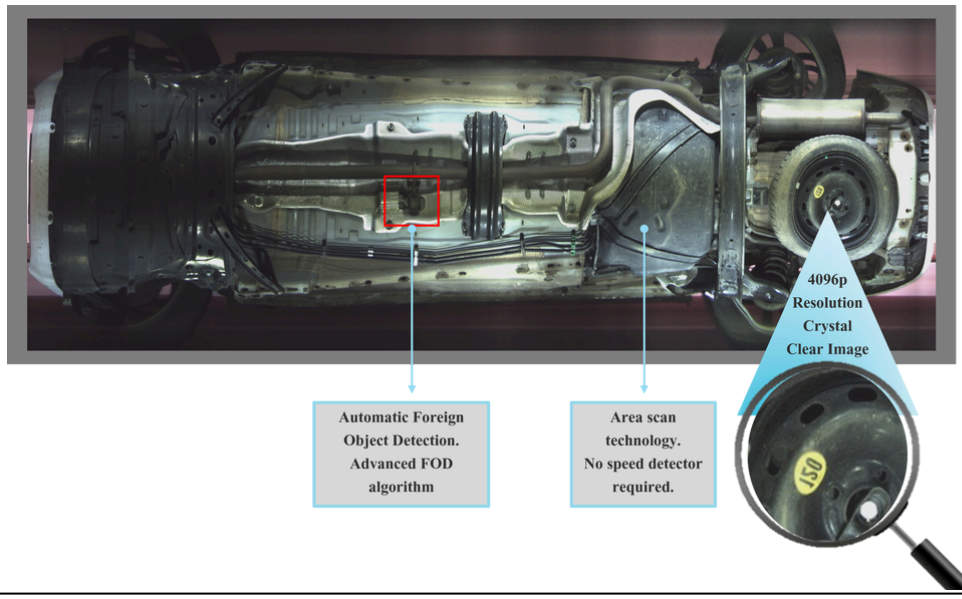
Our vision at Inspectara is to be the leading provider of security technology globally, recognized for our excellence, innovation, and integrity. We aim to set the standard in the industry by continuously enhancing our methodologies, embracing sustainable practices, and prioritizing customer satisfaction. Through our dedication to quality and our forward-thinking approach, we aspire to create safer, more resilient communities and contribute to the overall well-being of society.

The Team

Our team is made up of professionals with extensive experience and a strong background in security technology. We stand out through our relentless pursuit of innovation and our commitment to shaping the future of security.

UNDER VEHICLE
SURVEILLANCE SYSTEM

IEngineered for high-security environments, the Inspectara Under Vehicle Scanning System (UVSS) offers unparalleled security and efficiency through its cutting-edge technology and superior imaging capabilities.



CUTTING-EDGE
VEHICLE SCANNING

ADAPTIVE SCANNING

With a built-in ISP SPEED DETECTOR (ISD), Inspectara UVSS supports vehicles changing speed during scanning. The image quality remains unaffected, even if the vehicle stops and moves.

HIGH SPEED CAPABILITY

Capable of capturing vehicles moving up to 60 km/h, thanks to ultra high frame rate sensors and a specialized ASIC processor.

ULTRA-HIGH RESOLUTION

Delivers 4096p resolution images, allowing detailed zoom-in on areas of concern.

COMPREHENSIVE CAMERA TECHNOLOGY

Our advanced camera technology processes images within the camera, generating a complete undercarriage image and analyzing vehicle speed without additional devices. The auto-exposure sensor adjusts brightness for optimal performance across different vehicle heights.

AI-POWERED UNDERCARRIAGE AND VEHICLE MODEL ANALYSIS

Advanced AI algorithms for undercarriage analysis leverage big data and deep neural networks (DNN) to identify vehicle models. The self-learning database enhances car analytics with extensive data.

The proprietary Foreign Object Detection (FOD) algorithm automatically detects and highlights changes or differences between a newly scanned vehicle's undercarriage and a reference image, without operator intervention.

UVSS **PRODUCTS**

FIXEDGUARD

4096

Fixed UVSS provides permanent, high-resolution surveillance for critical infrastructure. It uses AI and machine learning to detect and alert on threats within seconds. Ideal for high-traffic areas, it offers continuous monitoring and extensive data storage. This system ensures maximum security with minimal manual intervention.

PORTGUARD

4096

Portable UVSS offers flexibility and mobility for temporary security needs. Designed for quick setup and easy transport, it provides high-resolution under-vehicle inspections anywhere. Perfect for events, checkpoints, and temporary installations, it delivers reliable security on the go. This system ensures thorough inspections without permanent infrastructure.

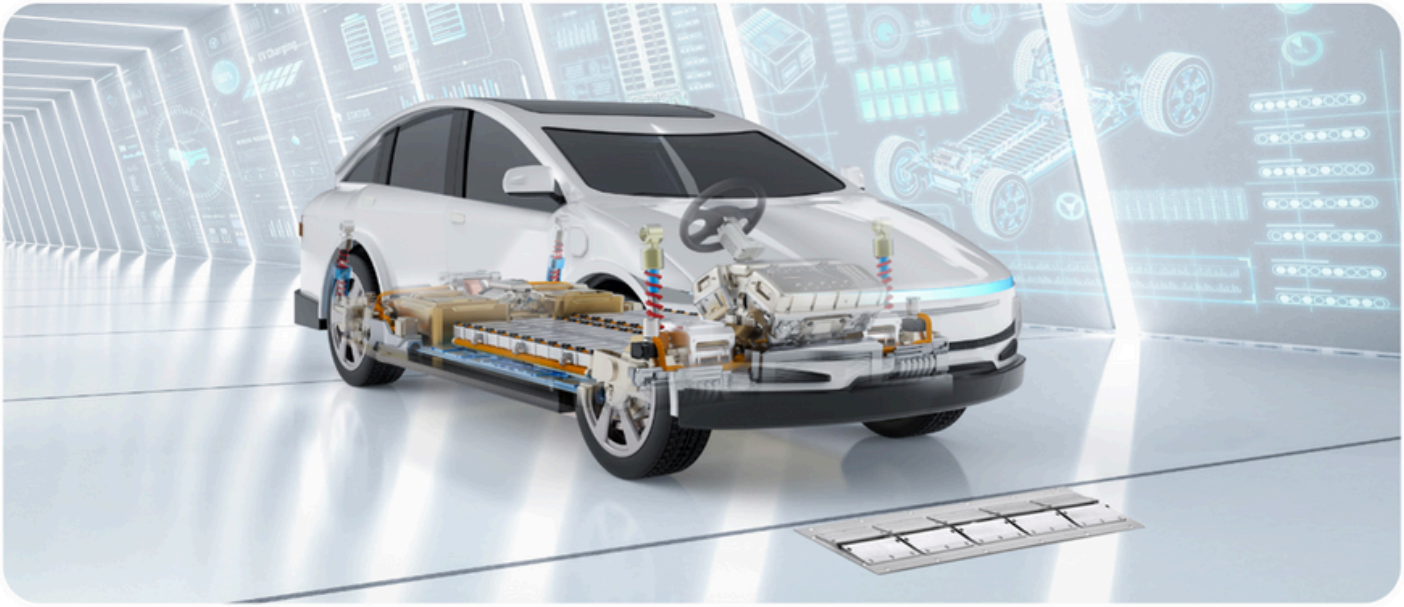
VIDEOGUARD

1080

Video Scan UVSS combines high-resolution video imaging with advanced analytics for comprehensive under-vehicle surveillance. This system offers real-time video analysis and threat detection. Suitable for a variety of settings, it provides detailed inspections and instant alerts. It ensures enhanced security with dynamic monitoring capabilities.

FixedGuard 4096

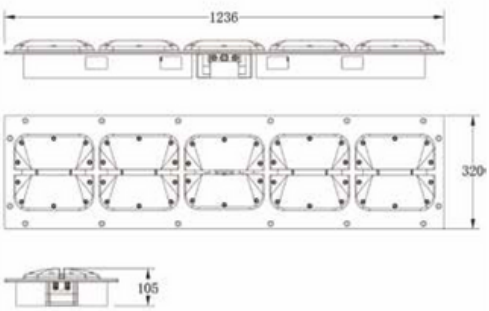
The FixedGuard 4096 is a premier Fixed Under Vehicle Surveillance System (UVSS) designed for permanent installation at high-security locations.



With advanced technology and 4096p resolution, the FixedGuard 4096 captures detailed undercarriage images at speeds up to 60 km/h. Integrated camera processing ensures fast, reliable performance in all weather, making it ideal for securing airports, military bases, government buildings, and critical infrastructure.

KEY FEATURES:

- **Fixed Installation:** Designed for permanent security checkpoints.
- **High-Resolution Imaging:** Captures detailed undercarriage images up to 4096p.
- **Vehicle Speed Capture:** Effective at vehicle speeds up to 60 km/h.
- **Integrated Image Processing:** Processes images directly within the camera, eliminating the need for external servers.
- **Automatic Speed Analysis:** Independently analyzes vehicle speed without additional measurement equipment.
- **HTTP Standard API:** Seamless integration into existing systems.
- **Auto-Exposure Adjustment:** Automatically adjusts brightness for optimal performance with various vehicle heights.
- **All-Weather Performance:** Designed to operate reliably in all weather conditions.
- **Robust Construction:** Durable build to withstand harsh environments.
- **High Load Capacity:** Supports vehicle weights up to 60 tonnes.
- **Comprehensive Coverage:** No limits on the length of a scan.



SPECIFICATIONS:

Electrical and Mechanical Specifications	
Capturing Accuracy	1/322 P98%
Maximum Vehicle Speed	60 km/h
Vehicle Maximum Length	Unrestricted
Maximum Ride Height	3000 mm
Maximum Vehicle Width	4500 mm
Image Processing Time	1 sec
System Extension (Optional)	Driver Image Capture and Foreign Object Dedection
Load Bearing Capacity	60 Tonnes
Network Speed	Gigabit Ethernet
Protocol	IPv4
Power	DC24V/150W
IP Rating	IP68
Operating Temperature	-40°F to 140°F ; -40℃~+60℃
Automatic License Plate Recognition	78 Countries supported: RF, CIS, Worldwide
Dimensions	48.66″ x 12.60″ x 4.13″ ; 1236mm x 320mm x 105mm

Camera Specifications	
Scanning Camera	4 MP, Area Scan Vision Camera
Image Resolution	10000 x 4096
View Angle of the Lens	170°
White Balance	Auto
Exposure	Auto

Software Specifications	
Image Upload Time	1 sec
Foreign Object Dedection Time	Less than 3 sec
Driver Image Capture Time	Less than 3 sec
Warning Type	Audible and Visual Alerts (Pop up)
User Control	Manual
Language	Customizable
Black/White List	Add/Edit/Delete
FR Sensitivity Range	0-100
FOD Sensitivity Range	0-8
Display	Auto Fit

PortGuard 4096

The Inspectara PortGuard 4096, a cutting-edge Portable UVSS designed for flexible and mobile security applications.

The PortGuard 4096 uses 4096p resolution to capture detailed undercarriage images at speeds up to 60 km/h. It processes images within the camera, ensuring rapid, reliable performance in all weather conditions without external servers. Its portable design allows easy deployment and repositioning, ideal for event security and temporary checkpoints.

KEY FEATURES:

- **Portable Design:** Instant recognition and verification of individuals.
- **High-Resolution Imaging:** Captures detailed undercarriage images up to 4096p.
- **Vehicle Speed Capture:** Effective at vehicle speeds up to 60 km/h.
- **Integrated Image Processing:** Processes images directly within the camera, eliminating the need for external servers.
- **Automatic Speed Analysis:** Independently analyzes vehicle speed without additional measurement equipment.
- **HTTP Standard API:** Seamless integration into existing security systems.
- **Auto-Exposure Adjustment:** Automatically adjusts brightness for optimal performance with various vehicle heights.
- **All-Weather Performance:** Designed to operate reliably in all weather conditions.
- **Robust Construction:** Durable build to withstand harsh environments.
- **High Load Capacity:** Supports vehicle weights up to 60 tonnes.
- **Comprehensive Coverage:** No limits on the length of a scan.

SPECIFICATIONS:

Electrical and Mechanical Specifications	
Capturing Accuracy	1/322 P98%
Maximum Vehicle Speed	60 km/h
Vehicle Maximum Length	Unrestricted
Maximum Ride Height	3000 mm
Maximum Vehicle Width	4500 mm
Image Processing Time	1 sec
System Extension (Optional)	Driver Image Capture and Foreign Object Dedection
Load Bearing Capacity	40 Tonnes
Network Speed	Gigabit Ethernet
Protocol	IPv4
Power	DC24V/150W
IP Rating	IP68
Operating Temperature	-40°F to 140°F ; -40℃~+60℃
Automatic License Plate Recognition	More than 60 Countries supported: RF, CIS, Worldwide
Dimensions	24.41″ x 12.60″ x 2.36″ ; 620mm x 320mm x 60mm

Camera Specifications	
Scanning Camera	4 MP, Area Scan Vision Camera
Image Resolution	10000 x 4096
View Angle of the Lens	170°
White Balance	Auto
Exposure	Auto

Software Specifications	
Image Upload Time	1 sec
Foreign Object Dedection Time	Less than 3 sec
Driver Image Capture Time	Less than 3 sec
Warning Type	Audible and Visual Alerts (Pop up)
User Control	Manual
Language	Customizable
Black/White List	Add/Edit/Delete
FR Sensitivity Range	0-100
FOD Sensitivity Range	0-8
Display	Auto Fit

VideoGuard 1080

KEY FEATURES:

- **Fixed Installation:** Designed for permanent security checkpoints.
- **Real-Time Video Output:** Provides immediate, live surveillance.
- **High-Resolution Imaging:** Captures detailed images up to full 1080p.
- **2-Megapixel Resolution:** Ensures high-quality visual output.
- **Waterproof Design:** Built to withstand harsh environments.
- **Support for Standard Onvif Protocol:** Allows easy integration with other security systems.
- **Powerful LED Illuminator:** Ensures visibility in all weather conditions.

Electrical and Mechanical Specifications	
Ethernet	RJ-45(10/100Base-T)
Protocol	IPv4/IPv6,HTTP,TCP/IP,UDP,NTP,DHCP,DNS
Interoperability	CGI,Onvif
Max.User Access	20
Power Supply	POE+(802.3at)
Power Consumption	17 W
Operating Temperature	-30°F to 140°F ; -30℃~+60℃ Less than 95% RH
IP Rating	IP68
Dimensions	420mm x 320mm x 100mm
Net Weight	12 Kg

Camera Specifications	
Compression	H.265/H.264M/H.264H/H.264B
Resolution	1080P(1920*1080)
Frame Rate	1080P(1~25/30fps)
Bit Rate Control	CBR VBR
Bit Rate	H.264:80kbps~10Mbps
Day/Night	Auto(ICR)/Color/B/W
BLC Mode	BLC,HLC,WDR(140db)
White Balance	Auto/Manual
Gain Control	Auto/Manual
Noise Reduction	3D
Smart IR	Smart IR
Audio Interface	Input/Ouput 1 Input/1 Ouput
RS485	N/A
Alarm	2/1 channel In/Out

FACE RECOGNITION

User Interface

Our UVSS includes an advanced Face Recognition System designed to enhance security and streamline identification processes.

Integrated seamlessly with our UVSS, it provides **an additional layer of security by cross-referencing captured faces against a database of known individuals**.

KEY FEATURES:

- **Real-Time Identification:** Instant recognition and verification of individuals.
- **High Accuracy:** Utilizes advanced AI and machine learning algorithms for precise identification.
- **Seamless Integration:** Works in conjunction with our UVSS for comprehensive security coverage.
- **Database Cross-Referencing:** Matches captured faces against a database of known individuals for enhanced security.
- **Automatic Alerts:** Triggers alerts for unrecognized or flagged individuals.
- **Scalable Solution:** Capable of handling large volumes of data for extensive monitoring.
- **Remote Access:** Allows security personnel to access and manage the system from any location.

AUTOMATIC NUMBER PLATE RECOGNITION

User Interface

Inspectara's LPR systems utilize advanced algorithms for precise data collection, ensuring high accuracy, continuous vehicle monitoring, automated security alerts, and easy deployment.

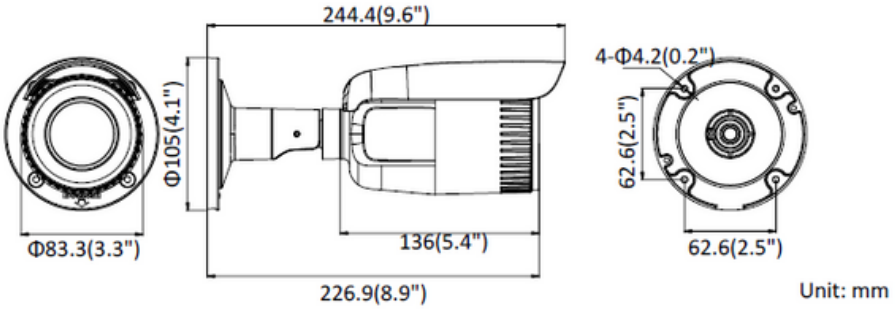
The technology also enhances accuracy with sophisticated character recognition and plate locating techniques, even in complex environments.

Inspectara's LPR systems recognizes plates from 78 countries.

ANPR / LPR

KEY FEATURES:

- **High Accuracy:** 98% reading success rate.
- **Multi-Camera Support:** Control up to 6 cameras on the same interface.
- **Flexible Plate Reading:** Reads both single-line and two-line plates.
- **Rapid Vehicle Detection:** Quickly identifies consecutive vehicles.
- **Adaptive Lighting:** Works in day and night conditions.
- **Advanced Reporting:** Detailed reports with photographs.
- **User-Friendly Software:** Easy subscriber transactions.
- **Excel Integration:** Adds subscribers from Excel files.
- **Subscriber Management:** Different groups and quotas (optional)
- **Blacklist Control:** Restricts entry for banned vehicles (optional)
- **Camera Compatibility:** Works with various IP camera brands.
- **Unlimited Authorization:** Supports unlimited IDs.
- **Trigger-Free Operation:** No need for additional triggers.
- **Global Recognition:** Recognizes plates from 78 countries.
- **Easy Installation:** Quick and simple setup.



Camera Specifications	
Image Sensor	1/322 Progressive Scan CMOS
Lens	2.7~13.5 motorized lens
Maximum Resolution	2560×1440
Network Interface	1 RJ45 10/100M self-adaptive Ethernet port
Power Supply	12V DC, PoE (802.3af, class3)
IR Distance	60m
Protection Standards	IP67, IK10
Operating Temperature	-30°C to +60°C (-22°F to +140°F)
Dimensions	105 x 244.4mm (4.1″x9.6″)
Weight	1035g (2.3lb.)

MANAGEMENT SYSTEM

Inspectara software features automatic image processing, advanced threat detection algorithms, and seamless integration with existing security systems and other perimeter security devices via standard API interfaces.

Additionally, it supports driver image capturing and foreign object detection, providing a comprehensive security solution. With robust data storage and retrieval capabilities, it allows for comprehensive record-keeping and easy access to historical data.

Management System

KEY FEATURES:

- AI Technology
- FOD Based on Plate Number
- FOD Based on Database
- Fast FOD Algorithm (≤3 s)
- Plate Number Blacklist & Whitelist
- Driver Image Capture (Optional)
- Watch Live Media
- Multiple Devices
- Limitless Logged-In Users
- Detailed Reports

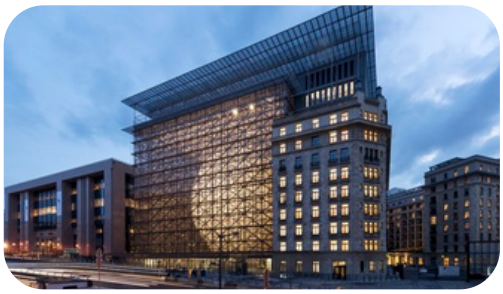
Software Specifications	
Image Upload Time	1 sec
Foreign Object Dedection Time	Less than 3 sec
Driver Image Capture Time	Less than 3 sec
Warning Type	Audible and Visual Alerts (Pop up)
User Control	Manual
Language	Customizable
Black/White List	Add/Edit/Delete
FR Sensitivity Range	0-100
FOD Sensitivity Range	0-8
Display	Auto Fit

Recomended Server Configuration	
Operation System	Windows 7+
Architecture	AMD64
Memory	8 GB
Hard Disk	≥ 100G
Processor	≥ Intel I3
Screen Resolution	≥ 1280 x 720

SECURITY APPLICATIONS

AIRPORT CHECKPOINTS

UVSS at airports enhance security by inspecting vehicle undersides for hidden threats like explosives, contraband, or unauthorized modifications.



GOVERNMENT BUILDINGS

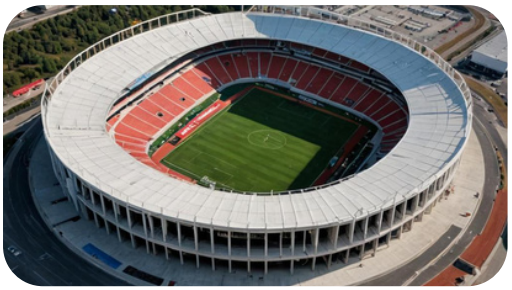
UVSS is essential at government buildings to protect critical infrastructure by inspecting incoming vehicles for threats like explosives, weapons, or unauthorized materials.

MILITARY BASES

UVSS is crucial at military bases for security, enabling thorough inspections of incoming vehicles to detect explosives, weapons, and unauthorized personnel.

BORDER CONTROL

UVSS is essential at customs for border security, enabling thorough inspections of vehicles and containers to detect contraband, illegal goods, and undeclared items.



ENTERTAINMENT VENUES

UVSS enhances safety at entertainment venues by inspecting incoming vehicles for threats like weapons, explosives, and prohibited items.

HOTELS & OFFICE BUILDINGS

VSS enhances security at hotels and office buildings by inspecting incoming vehicles for potential threats and foreign objects.

Inspectara
TECHNOLOGIES

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