

# RAPISCAN® RXU UNDERSIDE REFLEXION™

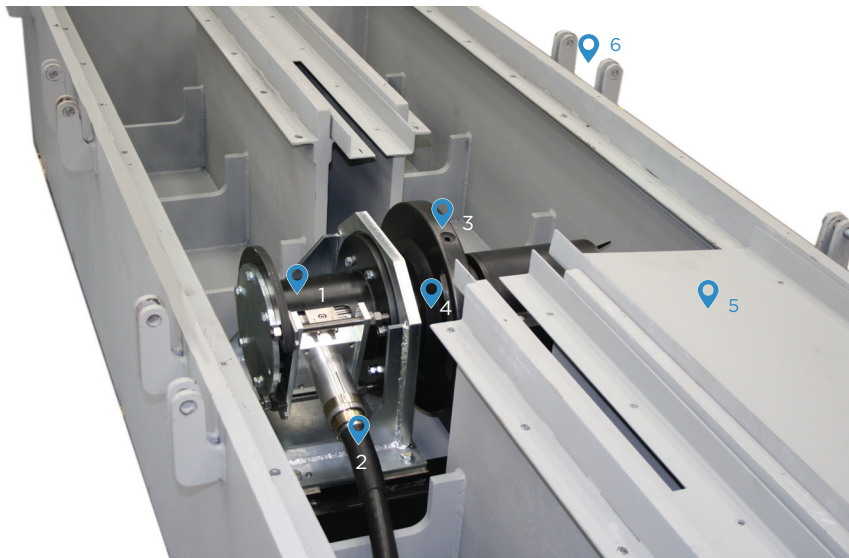
200 kV Underside Reflexion™ Imaging System To Quickly Screen The Underneath Of Occupied Vehicles.

Safe, Automated Occupied Vehicle Scanning

Automated Drive Over System Ideal For Covert Inspection

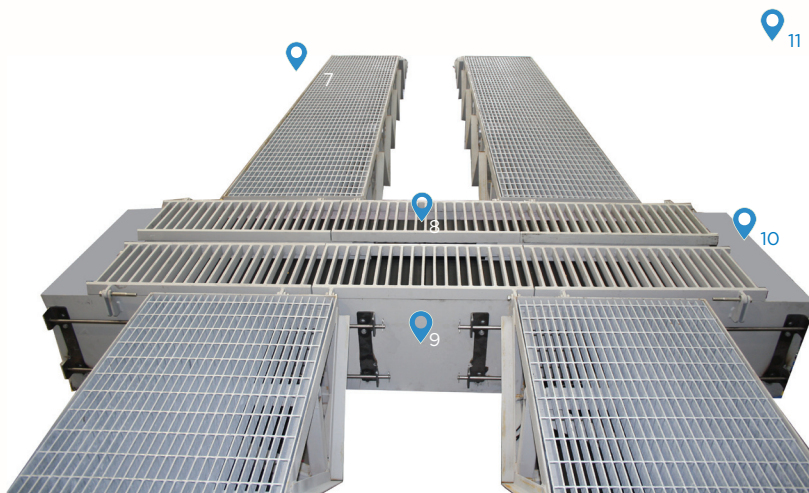
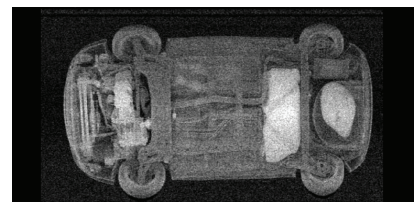
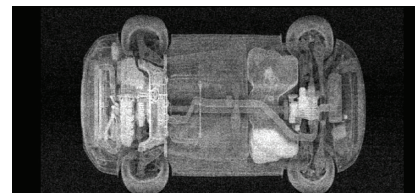
Technology Allows Multi Direction Scanning

The Rapiscan® RXU Underside Reflexion™ cargo and vehicle inspection system provides a fast and efficient method for screening the underside of vehicles. Designed to automatically inspect vehicles and cargo driving over the system, the Rapiscan® RXU Underside Reflexion™ provides high quality x-ray images with inherent material separation



## Key

1. 200kV X-Ray Tube
2. High Voltage Power supply
3. X-Ray Beam
4. Rotating Collimator
5. Imaging and Detector system Housing
6. Drive Over Grid Brackets
7. Vehicle Ramps
8. Detector Sets
9. IP66 Rated Unit
10. Control Equipment and High Power Feed
11. Remote Image Inspection



Reflexion™ is not available for sale or use in certain countries

**Rapiscan**<sup>®</sup>  
systems

An OSI Systems Company

# RAPISCAN® RXU UNDERSIDE REFLEXION™

## Physical Specifications

Platform Type	Underside Reflexion™ Inspection
Platform	Drive Over inspection
View Direction	Underside shooter
Overall Dimensions	Length: 1.1 m, Width: 3.4 m, Height: 0.75 m to top of system.
Recommended Maximum Vehicle / Object Scan size (m)	Length: unlimited Width: 3.0 m, Height: unlimited
Deployment Configurations	Rapiscan® RXU Underside Reflexion™ System can be used as a stand-alone underside inspection system, installed flush with the road surface for covert operation or with associated vehicle ramps for overt operation
System Weight	Circa 3.5t
Minimum Scan Height	0 m from ground
Scan Orientation	90° to inspected object

## Operation

Set-up	15 minutes in standard operating environment
Crew	1 inspectors, system output can be networked to further inspectors for increased throughput
Scan Mode	Drive-Over scan mode only Occupied vehicle - bumper to bumper
Scan Direction	Bi-Direction Scanning
Recommended Scanning Speed	2-10 km/h
Operational Temperature	-10°C to +40°C as standard
Relative Humidity	5 to 95% non-condensing

## X-Ray Generator and Image Performance at a scan speed of 2km/h for Passenger Car\*

X-Ray Energy	200 kV X-ray tube
Steel Penetration (mm)	8mm
Grid Resolution (mm)	6mm
Radiation Detection (Option)	Gamma detection option
Material Separation	Organic materials appear 'brighter' in X-ray image

## Radiation Safety\*

Open Radiation Exclusion Zone	System Footprint if recessed into the ground
Radiation Dose at Exclusion Zone Boundary in One Hour	less than 1 µSv in any one hour for scanning 100 vehicles
Radiation Dose to Occupants	less than 0.25 µSv
Radiation Dose to Crew in One Hour	less than 0.25 µSv in one hour
Radiation Dose to Cargo per Scan	less than 0.25 µSv
Shielding Type	Not required

Superior Quality, Comprehensive Standard Features and Flexible Options - Available with Every Rapiscan Cargo and Vehicle Inspection System.

Our commitment to value and innovation make Rapiscan the first choice in cargo and vehicle inspection solutions. Rapiscan Systems is a global leader in high quality inspection solutions and advanced threat identification techniques. Security is our only concern, and we focus on developing customer-centric solutions that are future-proof and cost effective. All Rapiscan products are backed by a 24 x 7 worldwide training, maintenance and service organization.

**Reflexion™ is not available for sale or use in certain countries**

### EUROPE, MIDDLE EAST, AFRICA

X-Ray House  
Bonehurst Road  
Salfords  
Surrey RH1 5GG  
UNITED KINGDOM  
Tel: +44 (0) 870-7774301  
Fax: +44 (0) 870-7774302

### ASIA

240 Macpherson Road  
#07-01 Pines Industrial Building  
Singapore 348574  
SINGAPORE  
Tel: +65-6846-3511  
Fax: +65-6743-9915

### EMAIL

sales@rapiscansystems.com

### WEB

www.rapiscansystems.com

With continual development of our products Rapiscan Systems reserves the right to amend specifications without notice. Product pictures are for general reference. Please note that due to US laws and regulations, not all Rapiscan products are available for sale in all countries without restriction. Please contact your Rapiscan Systems sales representative for more information.

\* **Reflexion™ is not available for sale or use in certain countries**

\* All tests performed according to ANSI N42.46

\* The performance characteristics outlined in this document are indicative and for information only, the specific performance characteristics of individual systems may differ based upon customer requirements, operation and supplied options.

Should further enhanced characteristics or extended capabilities be required, please contact a Rapiscan Systems Cargo and Vehicle Inspection representative.

**Rapiscan**  
systems

An OSI Systems Company

**Reflexion**



Rapiscan Systems is  
ISO 9001:2008 Certified

ONE COMPANY - TOTAL SECURITY

www.rapiscansystems.com