

## DUAL VIEW, LOW CONVEYOR X-RAY SYSTEM FOR SCREENING ULD TYPE FREIGHT AND ISO STANDARD PALLETS

EXPLOSIVES AND NARCOTICS  
DETECTION ALERT

MATRIXING, NETWORKING AND  
REMOTE VIEWING

MEETS ALL EUROPEAN  
COMMISSION AVIATION  
SCREENING REQUIREMENTS

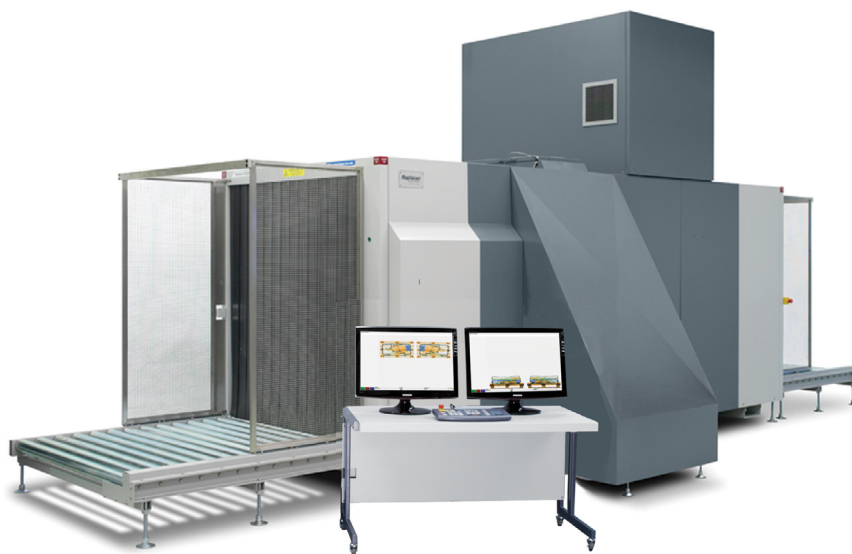
### STANDARD FEATURES

- Multi Energy Imaging (4 Color)
- View Previous/Next Bag
- Image Archive
- Configurable Image Processing Keys
- Baggage Counter
- Date / Time Display
- Search Indicator
- UPS (Uninterrupted Power Supply)
- Multi Language Support
- Flat Panel Monitor

### STANDARD IMAGE PROCESSING FUNCTIONS

- Crystal Clear™
- Black and White
- Organic / Inorganic Stripping
- Inverse Video
- High Penetration
- Pseudo Color
- Low Penetration
- Variable Edge Enhancement
- Variable Color Stripping
- Variable Gamma
- Variable Density
- Dynamic Continuous Zoom & Panning
- Fixed Zoom (64x)

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Tunnel Opening (width x height):  
1,837 x 1,800 mm (72.3 x 70.9 in)

THE RAPISCAN 638DV IS AN ADVANCED DUAL-VIEW X-RAY SYSTEM FOR SCREENING ULD, ISO STANDARD, LOWER DECK AND LARGE CARGO PALLET TYPE FREIGHT. WITH A LARGE AND SPACIOUS TUNNEL SIZE OF 1,837 MM X 1,800 MM AND EXPLOSIVES AND NARCOTICS DETECTION ALERT FEATURE, THE RAPISCAN 638DV IS WIDELY USED FOR AIR CARGO SCREENING AND CUSTOMS APPLICATIONS WHERE THROUGHPUT IS MOST IMPORTANT.

The Rapiscan 638DV has been approved and included on the U.S. TSA Air Cargo Screening Technology List (ACSTL) and the Transport Canada (TC) Air Cargo Security Program (ACS).

### DETECTION OF EXPLOSIVES AND NARCOTICS ALERT

Target™ and NARCScan™ are designed to assist operators in the detection of a range of explosives and narcotics respectively in real time during the scanning process by marking a potential threat on the X-ray image. Rapiscan detection algorithms are based on regulatory material analysis techniques.

### REGULATORY COMPLIANCE

Rapiscan 638DV performance is in full compliance with the European Union regulations (EC) No. 300/2008, (EU) No. 2015/1998 and Commissions Decision C (2015)8005 for aviation security.

### DUAL VIEW ADVANCED TECHNOLOGY

As mandated by US and EU regulators, the 638DV utilizes a dual-view technology which produces two simultaneous images (vertical and horizontal views) of the scanned object. It provides a more complete image, thereby reducing the need for repositioning and rescanning and enabling rapid, accurate and comprehensive threat detection.

### EASE OF USE PROVIDING HIGHEST THROUGHPUT

With over 13 image processing tools and detection alert algorithm functions, the feature rich software allows the operator to more easily and accurately search for contraband.

### DARC ALARM

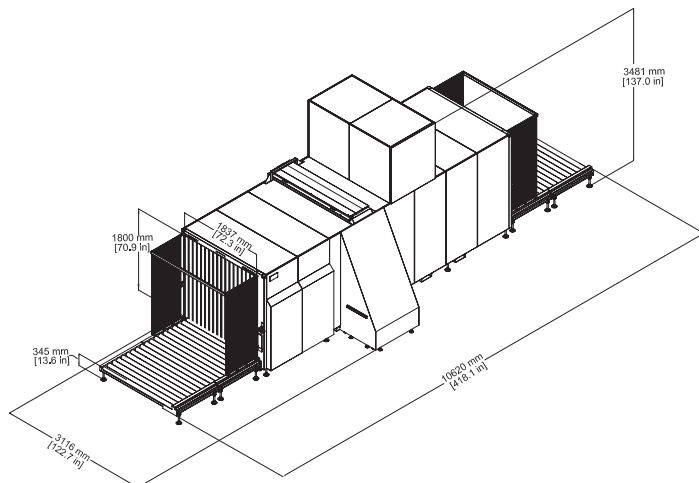
Rapiscan's proprietary detection algorithm that detects areas of high density while screening air cargo. Rapiscan collaborated closely with the U.K. Department for Transport to create DARC alarm and jointly executed the necessary test trials to verify the effectiveness of the DARC Alarm algorithm.



# RAPISCAN 638DV

**Rapiscan®**  
systems

An OSI Systems Company



## PHYSICAL SPECIFICATIONS

Dimensions:	Length: 10,620 mm (418.1 in.) Width: 3,116 mm (122.7 in.) Height: 3,481 mm (137.0 in.)
Tunnel Size:	1,837 mm (72.3 in.) X 1,800 mm (70.9 in.)
Conveyor Speed:	0.20 m/sec (39.4 ft./min)
Conveyor Load (Max):	3,000 Kg (6,614 lbs) evenly distributed at 230 V 1,500 Kg (3,307 lbs) evenly distributed at 115 V
Conveyor Height:	345 mm (13.6 in.)
Weight (Approx.):	Net: 6,312 Kg (13,915 lbs)
System Power:	115/230 VAC ±10%, 60/50Hz

## HEALTH & SAFETY

Rapiscan Systems' cabinet X-ray products comply with all applicable U.S. FDA and equivalent international regulatory agency requirements, contained in the cabinet X-ray radiation safety performance standard [21 CFR 1020.40] and the general performance standard [21 CFR Part 1010] as well as IEC standard 61010-2-091.

Rapiscan baggage and parcel inspection systems radiation emission leakages are well below the required regulatory limits with less than 1 µSv/hr at 10 cm from all surfaces of cabinet X-ray.

## X-RAY GENERATOR AND IMAGE PERFORMANCE<sup>1</sup>

Steel Penetration:	50 mm typical; 45 mm standard
Wire Resolution:	40 AWG typical; 38 AWG standard
Cooling:	Sealed oil bath with forced air
Anode Voltage:	Operating at 200KV
Tube Current:	1.0 mA
Orientation:	Vertically Downward and Horizontal

## OPERATING ENVIRONMENT

Storage Temperature:	-20°C to 50°C
Operating Temperature:	0°C to 40°C
Relative Humidity:	5 to 95% non-condensing

## PROTECTION CLASS

System:	IP20
Operator Control Panel:	IP43 <sup>2</sup>

## REGULATORY

- TSA Air Cargo Screening Technology List (ACSTL) Qualified
- Transport Canada (TC) Air Cargo Qualified
- Regulation (EC) No. 300/2008 Compliant
- Regulation (EU) No. 2015/1998 Compliant
- EU Commissions Decision (EU) C(2015)8005 Compliant
- French Civil Aviation Authority (STAC) Certified

## OPTIONS AND ACCESSORIES

- Explosives Detection Alert (Target™)
- Narcotics Detection Alert (NARCScan™)
- Density Threshold Alert (DTA)
- Threat Image Projection (TIP)
- Threat Image Projection Network (TIPNet)
- Remote Image Archive Review (NETView™)
- Network X-ray management automation and link system (NEXLink™)
- Multi System Network Display Station (NDS)
- Automatic Image Archiving
- Enhanced Image Archiving
- Operator Training Program (OTP)
- Manual Scan
- Foot Mat
- SmartCard Login
- Power Conditioner
- Roller Bed Accessories
- Universal Printer Support

<sup>1</sup> Stated performance as measured by Rapiscan Imaging Validation Test Kit.

Stated dual view performance as measured in primary view.

<sup>2</sup> With optional replaceable cover.

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.

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Rapiscan Systems is ISO 9001:2008 and ISO 14001:2004 + Cor. 1:2009 Certified

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