

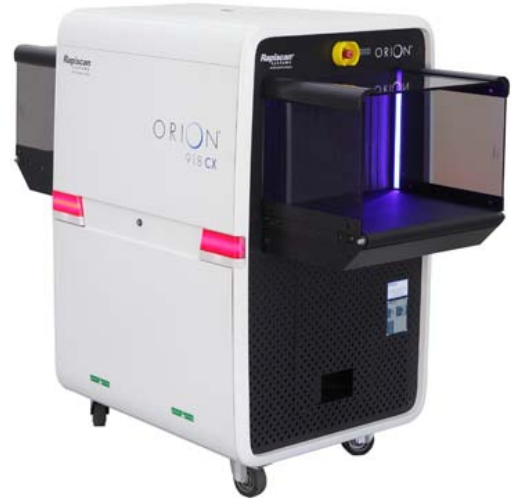
# ORION 918CX

## High Performance Compact x-Ray System



*baggage & parcel*

*inspection  
technology*



*The Orion® 918CX is a single view, high performance, compact and versatile 540mm X 360 mm tunnel X-ray system, with exceptional image quality and alert capabilities for detecting what could be narcotics and explosives in checkpoint baggage, mail and small parcels.*

### MATRIXING, NETWORKING & REMOTE VIEWING

Available networking options offer the ability to perform configuration management from one central network computer, remote network image archive review from a unified management platform, remote status monitoring through a web enabled interface, and a multi-system alarm resolution network display station to improve the effectiveness of manual searches by providing scanned reference images to the manual screener.

### OPERATOR ASSIST TOOLS

Target™ function highlights regions of an X-ray image that could be explosive material. The algorithm estimates factors such as atomic number, density, and size and then compares these values to characteristics of known explosive materials to identify possible threats.

NARCSan algorithm is designed to highlight areas of an image that might contain narcotics. NARCSan works in real time, using a proprietary algorithm to process scan data to estimate material characteristics including atomic number, density, and size.

Density Threat Alert (DTA) visually highlights high-absorbing regions of the X-ray image. The algorithm generates a visible alert on the screen and the user can select the density threshold at which this alarm will activate, to best meet the needs of their application.

### INDUSTRY BEST RESOLUTION

918CX offers 38 AWG wire resolution with display capabilities in the Classic 4-color and Rapiscan's proprietary Spectrum 4-color imaging process enabling faster and accurate screening.

### SPECTRUM 4-COLOR IMAGING

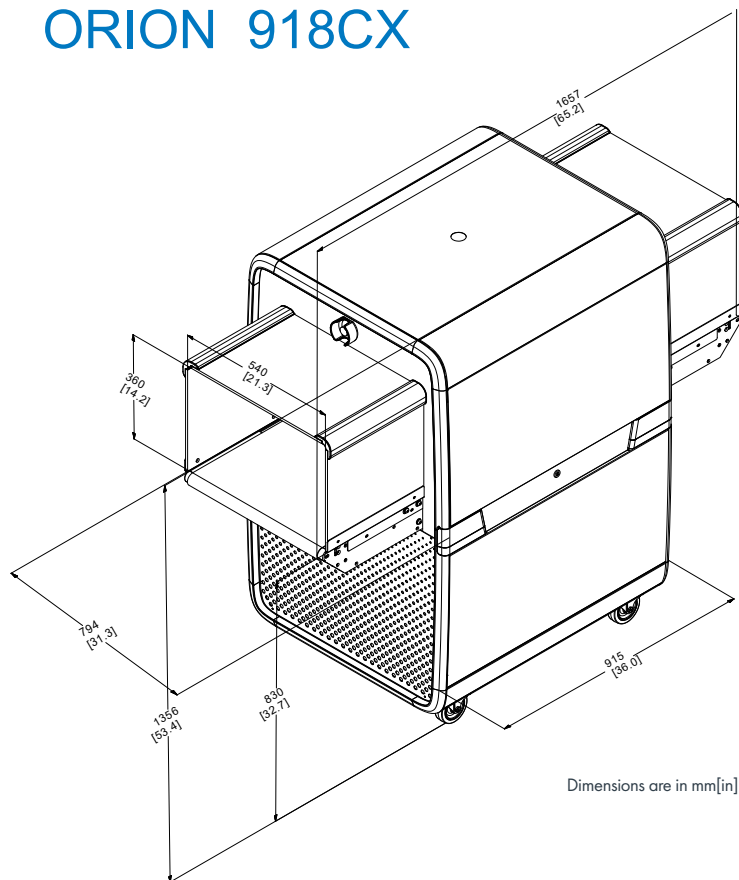
Rapiscan's proprietary Spectrum 4-color Imaging provides operators the ability to easily change between Classic 4-color and Spectrum-4 for a brighter color palette, a key option which allows faster screening leading to increased throughput and improved security.

### DUAL MODE AUTO Z<sub>EFF</sub>

This feature aids the operator in quick identification of organic materials, either in Range Mode which highlights areas based on operator selected Z-effective values of 7, 8 or 9, or in Interactive Mode which gives the operator the option to display the Z-effective number of a selected pixel.

- INDUSTRY BEST RESOLUTION FOR GREATER IMAGE DETAILS
- SOFTWARE FEATURES & OPTIONS AID FASTER SCREENING
- MATERIAL DISCRIMINATION & OPERATOR ASSIST TOOLS SUPPORT IMAGE ANALYSIS
- MATRIXING, NETWORKING & REMOTE VIEWING OPTIONS

# ORION 918CX



Dimensions are in mm[in]

## KEY FEATURES AND OPTIONS

- Explosive threats, narcotics & density alerts
- Spectrum 4
- 17 Image processing functions
- SINERGY low density enhancement
- Dual Mode Z-effective
- CrystalClear™
- Automatic, Enhanced Image Archiving
- E.U. Approved Threat Image Projection
- Remote Status Monitoring
- Remote Archive Review
- Multi-System Alarm Resolution Network
- 13 Languages
- 64-bit Operating System

ScanS<sup>®</sup>  
64-bit Operating  
System

## PHYSICAL SPECIFICATIONS<sup>1</sup>

|                                |                                                                    |
|--------------------------------|--------------------------------------------------------------------|
| <b>DIMENSIONS</b>              | L 1,657 mm (65.2 in)<br>W 794 mm (31.3 in)<br>H 1,356 mm (53.3 in) |
| <b>TUNNEL SIZE</b>             | W 540 mm (21.3 in)<br>H 360 mm (14.2 in)                           |
| <b>CONVEYOR HEIGHT</b>         | 830 mm (32.7 in)                                                   |
| <b>WEIGHT (NET)</b>            | 414 Kg (913 lbs)                                                   |
| <b>ENVIRONMENT &amp; POWER</b> |                                                                    |
| <b>STORAGE TEMP</b>            | -20°C to 50°C                                                      |
| <b>OPERATING TEMP</b>          | 0°C to 40°C                                                        |
| <b>RELATIVE HUMIDITY</b>       | 5 to 95% non-condensing                                            |
| <b>SYSTEM POWER</b>            | 100/110/120/200/208<br>/220/230/240 VAC ±10%                       |

## PERFORMANCE <sup>2</sup>

|                                   |                                    |
|-----------------------------------|------------------------------------|
| <b>CONVEYOR SPEED<sup>1</sup></b> | 0.20 m/sec (39.4 ft/min)           |
| <b>CONVEYOR LOAD<sup>1</sup></b>  | 165 Kg (364 lbs)                   |
| <b>STEEL PENETRATION</b>          | 33 mm typical,<br>31 mm standard   |
| <b>WIRE RESOLUTION</b>            | 40 AWG typical,<br>38 AWG standard |
| <b>SPATIAL RESOLUTION</b>         | 0.8 mm vertical & horizontal       |
| <b>HIGH SPEED OPTION</b>          |                                    |
| <b>CONVEYOR SPEED<sup>1</sup></b> | 0.35 m/sec (68.9 ft/min)           |
| <b>STEEL PENETRATION</b>          | 30 mm typical,<br>29 mm standard   |
| <b>WIRE RESOLUTION</b>            | 36 AWG typical,<br>34 AWG standard |
| <b>SPATIAL RESOLUTION</b>         | 0.8 mm vertical & horizontal       |
| <b>X-RAY GENERATOR</b>            |                                    |
| <b>ANODE VOLTAGE:</b>             | 140kV                              |
| <b>ORIENTATION</b>                | Diagonally Upward                  |

