

## PALLET & CARGO X-RAY IMAGING SYSTEM

# XRC 180-180DV (320kV)



**American Transportation Security Administration (TSA) ACSTL** qualified x-ray scanner, XRC 180-180DV provides superior performance with its **320kV** generator and also it is designed with **dual view (DV)** technology. Thanks to its 2 generator sources, it provides high resolution and detailed imaging in horizontal and vertical angles. The images can be accessed with a single scan without the need to replace the packages in a different orientation. Thus, hidden objects in the luggage are detected more easily and quickly.

It facilitates the operators use thanks to the various image processing functions, hazard alarm, advanced computer technology and the best in class software. It provides exceptional ease in detecting threats such as cutting tools, explosives narcotics and minimizes the error rate. Thanks to its multi-diode structure and quality in imaging of scanned materials, image is colored based on density and shows organic, inorganic and mixed materials in different tones.

It is designed with the latest technology to scan medium and large packages on a pallet and it is one of the most suitable solutions for use in high security facilities such as freight companies, terminals, airports, customs and general cargo.

# TECHNICAL DATA XRC 180-180DV (320kV)

## PHYSICAL PROPERTIES

|                         |                                                  |
|-------------------------|--------------------------------------------------|
| Tunnel Size             | : 1800 mm x 1810 mm                              |
| (W x H)                 | : 70,87 in x 71,26 in                            |
| Dimensions              | : 8580 mm x 3465 mm x 3345 mm                    |
| (L x W x H)             | : 337,80 in x 136,42 in x 131,70 in              |
| Approx. Weight Unpacked | : ~10500 kg (23149 lbs.)                         |
| Conveyor Height         | : 400 mm (15,75 in)                              |
| Conveyor Load Capacity  | : 3000 kg (6614 lbs.) Evenly Distributed         |
| System Power            | : 120/220V AC $\pm$ 10% 50/60 Hz, 1p 16A / 3p 7A |
| Conveyor Speed          | : 0,20 m/sec. Forward or Reverse                 |

## X-RAY GENERATOR & IMAGE PERFORMANCE

|                                |                                                                                  |
|--------------------------------|----------------------------------------------------------------------------------|
| Steel Penetration <sup>1</sup> | : 75 mm guaranteed; 77 mm typical                                                |
| Wire Resolution <sup>1</sup>   | : 36 AWG guaranteed; 38 AWG typical                                              |
| Anode Voltage                  | : 320kV, operating at 320kV                                                      |
| Tube Current                   | : 1,0 mA                                                                         |
| Beam Direction                 | : 1st Generator : Vertically downward<br>: 2nd Generator : Horizontally sideward |
| Article Separation             | : Low Z, Medium Z, High Z to 0,5 Z Accuracy Organic, InOrganic, Metallic         |
| Cooling                        | : Oil and forced air cooling                                                     |

## COMPUTER SPECIFICATIONS

|                  |                                     |
|------------------|-------------------------------------|
| Processor        | : Intel® Core™ i5 (or superior)     |
| Monitor          | : Dual 21,5" Flat LCD (or superior) |
| Memory           | : 4 GB RAM (or superior)            |
| Video Card       | : 2 GB (or superior)                |
| Hard Drive       | : 1 TB (or superior)                |
| USB Port         | : 6 port (or superior)              |
| Operating System | : Linux                             |

## OPERATING ENVIRONMENT

|                                                 |                                                                 |
|-------------------------------------------------|-----------------------------------------------------------------|
| Storage / Operating Temperature                 | : -20°C to 50°C / 0°C to 40°C<br>(4°F to 122°F / 32°F to 104°F) |
| Relative Humidity                               | : 0% to 95% non-condensing                                      |
| Duty Cycle 100% (24 Hours), No warm-up required |                                                                 |

## HEALTH AND SAFETY

All X-Ray Center Ltd products meet all applicable international health and safety regulations.

US FDA Federal Standard 21CFR 1020.40

Health and Safety at Work Act 1974-compliant 6 : Available

Film Safety : ISO 1600 / 33 DIN

CE Compliance : Certified

FCC & IEC Compatibility : Available

IP 20 Safety : Certified

Maximum level of radiation the exterior panels come in contact with is 0.1 mR/hour

## OPTIONAL FEATURES

|                                  |
|----------------------------------|
| Barcode Reader System            |
| External Camera Archiving        |
| Remote Viewing Station           |
| Recheck Station                  |
| Network Supervisory System (NSS) |
| Remote Access Connection         |
| Smart Card Login                 |

## OPTIONAL ACCESSORIES

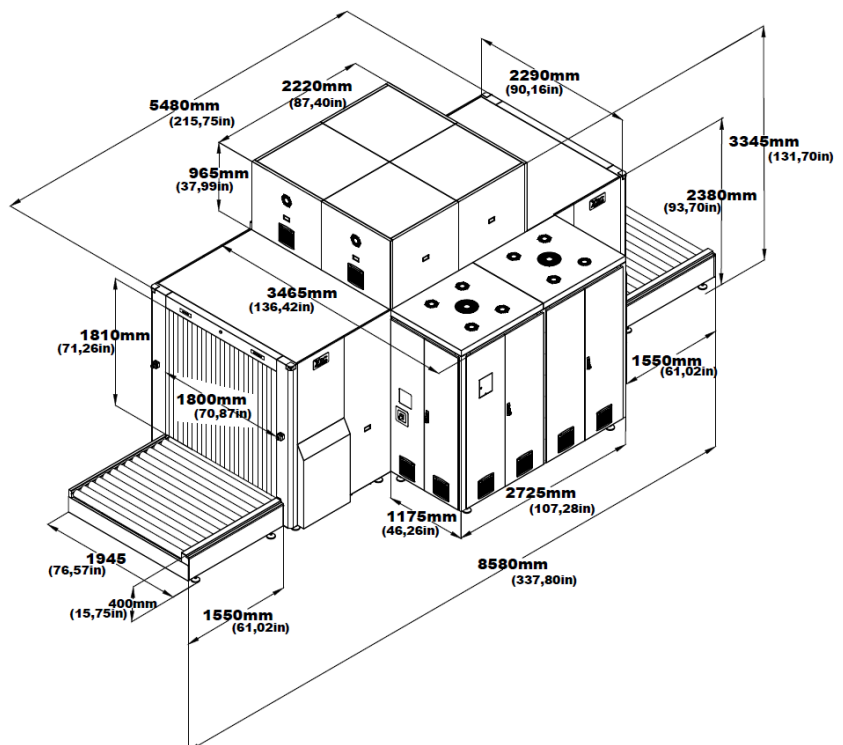
|                                                   |
|---------------------------------------------------|
| External UPS (For system)                         |
| Operator Console (Open-Closed/Adjustable/I-stand) |
| 21,5" - 27" Flat Monitor                          |
| Input / Output Rollers                            |
| Test Kit (STP/ASTM)                               |
| Protective Cover                                  |
| Search Table                                      |
| Tray Return System (Motorized/Gravity)            |
| Inclined Conveyor                                 |
| Ultrasonic Rat Repellent                          |
| Radiation Meter                                   |

## STANDARD IMAGE PROCESSING FEATURES

|                                        |
|----------------------------------------|
| Perfect View (Detail Enhancement) (PV) |
| Edge Enhancement (EE)                  |
| Pseudo Color (PS)                      |
| Organic Materials (OM)                 |
| Inorganic Materials (IM)               |
| Black & White (B/W)                    |
| Inverse Colors (IN)                    |
| High Penetration (HP)                  |
| Variable Edge Enhancement (+E -E)      |
| Variable Density (+D -D)               |
| Variable Gamma (+G -G)                 |
| Variable Color Separation (+C -C)      |
| Zoom (64x)                             |
| Sniper Zoom                            |
| Recall Previous Images                 |
| Manual/Automatic Archive               |
| Annotated Archive                      |
| Multi Energy Viewer (4 - 6 Color)      |
| Atomic Number Display (Z Value)        |

## STANDARD FEATURES

|                                       |
|---------------------------------------|
| Programmable Function Keys            |
| Parcel Counter                        |
| Date and Time Display                 |
| Virtual Threat Image Projection (TIP) |
| Organic/Inorganic Threat Alarm        |
| Operator Training Program (OTP)       |
| UPS (For Computer Supply)             |
| Multi Languages                       |
| Self Diagnosis                        |
| Generator Timer                       |
| Automatic Stop Conveyor               |
| Bi-Directional Scanning               |
| Emergency Stop Buttons                |



<sup>1</sup>As tested on X-Ray Center Ltd. test piece. Conveyor speed is 0.20 m/sec.

Due to continuous product development, X-Ray Center reserves the right to change specifications without notice.

