

## LARGE PARCEL & FREIGHT X-RAY IMAGING SYSTEM

# XRC 100-100DV



American Transportation Security Administration (TSA) ACSTL and European Civil Aviation Technical Service (STAC) certified XRC 100-100DV x-ray baggage scanner facilitates the operators use thanks to the various image processing functions, hazard alarm, advanced computer technology and the best in class software. It enables easy identification of potentially threatening objects 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 **dual view (DV)** technology. Thanks to its 2 x-ray 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 re-place the packages in a different orientation. Thus, hidden objects in the luggage are detected more easily and quickly.

It is an efficient and a powerful device for scanning medium and large bags and packages in detail. The x-ray security machine provides the ideal solution for locations where security screening is required like at high traffic checkpoints as city transportation (metro, ferry, train stations), customs border crossings, prisons, and courier depots, like international logistics companies, goods acceptance points and etc.

# TECHNICAL DATA XRC 100-100DV

## PHYSICAL PROPERTIES

Tunnel Size	: 1000 mm x 1000 mm
(W x H)	: 39,37 in x 39,37 in
Dimensions	: 3650 mm x 1810 mm x 1865 mm
(L x W x H)	: 143,70 in x 71,26 in x 73,43 in
Approx. Weight Unpacked	: ~1340 kg (2954 lbs.)
Conveyor Height	: 335 mm (13,19 in)
Conveyor Load Capacity	: 200 kg (441 lbs.) Evenly Distributed
System Power	: 110/220V AC $\pm$ 10% 50/60 Hz, 12A/6A
Conveyor Speed	: 0,20 m/sec. Forward or Reverse

## X-RAY GENERATOR & IMAGE PERFORMANCE

Steel Penetration <sup>1</sup>	: 37 mm guaranteed; 39 mm typical
Wire Resolution <sup>1</sup>	: 38 AWG guaranteed; 40 AWG typical
Anode Voltage	: 180kV, operating at 165kV
Tube Current	: 1,0 mA
Beam Direction	: 1st Generator - Vertically downward 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	: 1TB (or superior) - SSD for Operating system
USB Port	: 6 port (or superior)
Operating System	: Linux

## OPERATING ENVIRONMENT

Storage / Operating Temperature	: -20°C to 50°C / 0°C to 40°C (-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	

## 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  
 Bi-Directional Scanning  
 Automatic Stop Conveyor  
 Emergency Stop Buttons

## OPTIONAL FEATURES

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

## HEALTH AND SAFETY

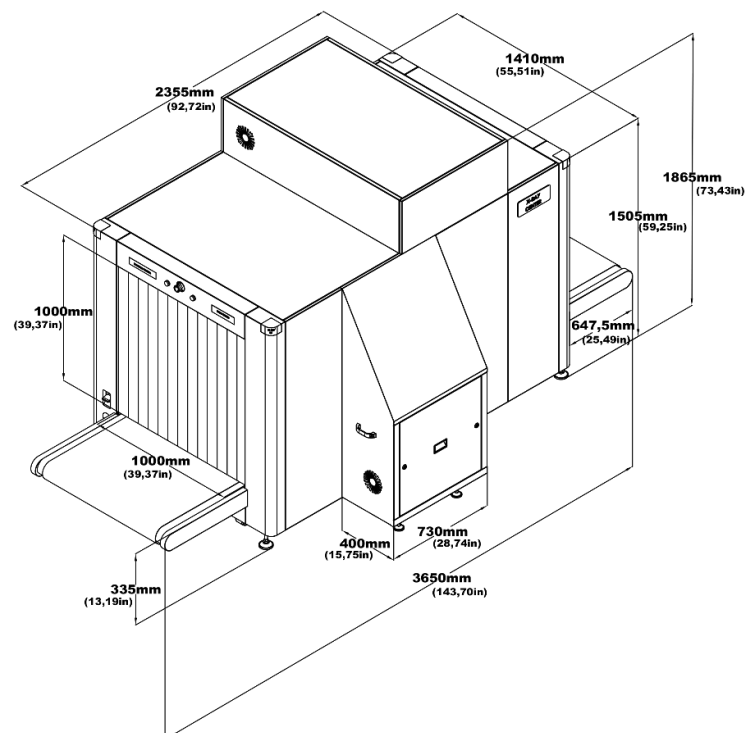
All X-Ray Center Ltd products meet all applicable international health and safety regulations.  
 Safety Interlock Switches: To protect against radiation hazards In case of opening the sensitive lids of the machine, there are Safety Interlock Switches to prevent radiation leakage.  
 Made of strong materials and durable to scratch and rust.  
 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

## 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 (100,000 or superior)  
 Manual/Automatic Archive (100,000 or superior)  
 Annotated Archive  
 Multi Energy Viewer (4 - 6 Color)  
 Atomic Number Display (Z Value)

## 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



<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.

