XRC X-RAY CENTER

LARGE PARCEL & FREIGHT
X-RAY IMAGING SYSTEM

XRC 100-100DV

TSA Approved   **STAC** Approved

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	: 1010 mm x 1010 mm
(W x H)	: 39,76 in x 39,76 in
Dimensions	: 3650 mm x 1865 mm x 1810 mm
(L x H x W)	: 143,70 in x 73,43 in x 71,26 in
Approx. Weight Unpacked	: ~1340 kg (2954 lbs.)
Conveyor Height	: 300 mm (11,81 in)
Conveyor Load Capacity	: 200 kg (441 lbs.) Evenly Distributed
System Power	: 110/240V AC ± 10%
Conveyor Speed	: 0,20 m/sec. Forward or Reverse

X-RAY GENERATOR & IMAGE PERFORMANCE

Steel Penetration [1]	: 40 mm
Wire Resolution [1]	: 38 AWG guaranteed; 40 AWG typical
Anode Voltage	: 180kV
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

Touch Sensitive Keyboard
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

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

HEALTH AND SAFETY

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

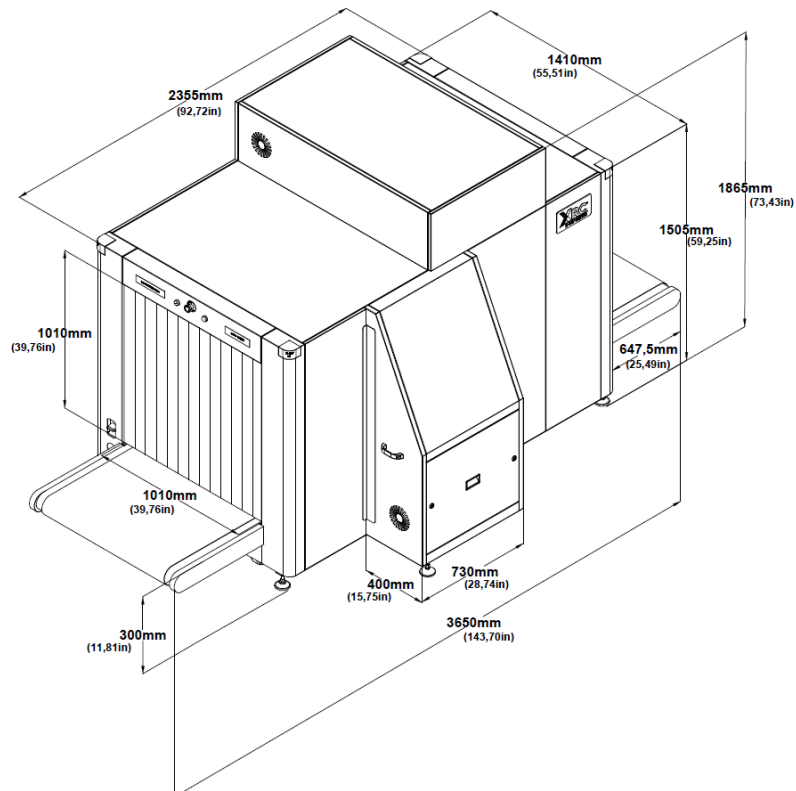Maximum level of radiation the exterior panels come in contact with is 0.1 mR/hour
"The dimension of tunnel are project based"

2355mm (92,72in)
1410mm (55,51in)
1865mm (73,43in)
1505mm (59,25in)
1010mm (39,76in)
647,5mm (25,49in)
1010mm (39,76in)
400mm (15,75in)
730mm (28,74in)
300mm (11,81in)
3650mm (143,70in)

[1]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.

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