SMALL PARCEL & BAGGAGE
X-RAY IMAGING SYSTEM

XRC 50-30LCT (100kV)

XRC 50-30LCT – Compact, Mobile X-Ray Scanner for Tight Spaces

The **XRC 50-30LCT** is a compact and lightweight x-ray baggage scanner designed for environments where space is limited. Equipped with a 100kV x-ray generator, it delivers high resolution imaging to effectively detect potential threats such as weapons, explosives, and narcotics.

Key Features:

Mobility and Compact Design: Weighing approximately 400 kg (882 lbs) and featuring foldable stainless steel rollers and integrated handles, the XRC 50-30LCT is easy to maneuver and ideal for locations requiring flexible deployment.

Advanced Imaging Technology: Utilizing a multi diode structure, the scanner produces color coded images that differentiate between organic, inorganic, and mixed materials based on density, enhancing threat detection capabilities.

User Friendly Interface: A built-in touchscreen monitor provides intuitive operation and folds down when not in use, optimizing space and ensuring ergonomic use for operators.

Software and Language Support: The system runs on upgradable Linux based software and offers multilingual support, catering to diverse operational requirements.

TECHNICAL DATA **XRC 50-30LCT (100kV)**

PHYSICAL PROPERTIES

Tunnel Size	: 532 mm x 332 mm
(W x H)	: 20,94 in x 13 in
Dimensions	: 2380 mm x 770 mm x 1280 mm
(L x W x H)	: 93,70 in x 30,31 in x 50,39 in
Approx. Weight Unpacked	: ~400 kg (882 lbs.)
Conveyor Height	: 580 mm (22,83 in)
Conveyor Load Capacity	: 165 kg (364 lbs.) Evenly Distributed
System Power	: 110/220V AC ± 10% 50/60 Hz, 6A/3A
Conveyor Speed	: 0,20 m/sec. Forward or Reverse

X-RAY GENERATOR & IMAGE PERFORMANCE

Steel Penetration [1]	: 10 mm guaranteed; 12 mm typical
Wire Resolution [1]	: 38 AWG guaranteed; 40 AWG typical
Anode Voltage	: 100kV, operating at 80kV
Tube Current	: 0,5 mA
Beam Direction	: Vertically downward
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	: 21,5" Flat LCD Touchscreen
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
  (-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
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)
Test Kit (STP/ASTM)
Protective Cover
Search Table
Tray Return System (Motorized/Gravity)
Inclined Conveyor
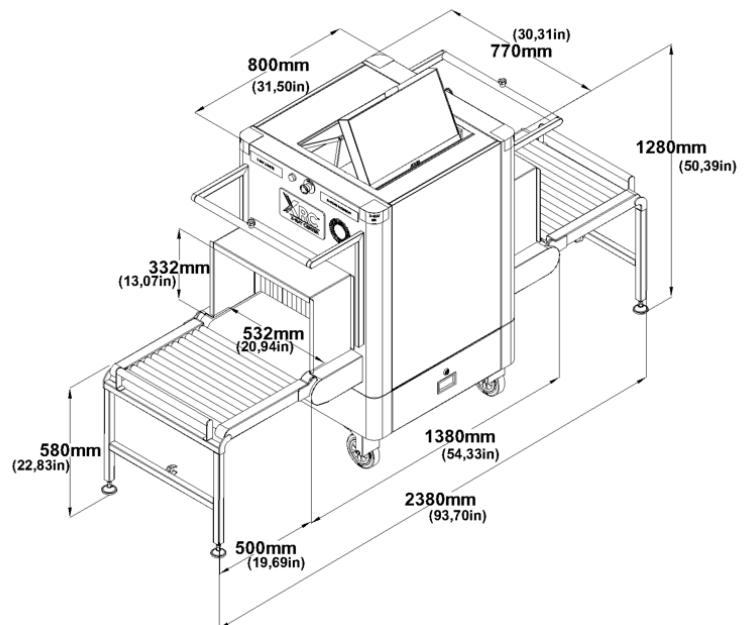Ultrasonic Rat Repellent
Radiation Meter

IDEAL APPLICATIONS

The XRC 50-30LCT is suited for various settings, including:
Courts and Police Departments
Government Offices
Shopping Malls
Prisons
Hotels
Exhibition Centers
Any location where space is at a premium and mobility is essential

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
Foldable Stainless Steel Rollers
Heavy Duty Caster Wheels
Bi-Directional Scanning
Emergency Stop Buttons

[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.