

TECHNICAL

Product Datasheet

X-RAY SECURITY PARCEL & BAGGAGE SCANNING & INSPECTION MACHINE

with 60 x 40 cm Tunnel



The GD-XR-6040-SD is a heavy duty complete x-ray scanning and inspection system with a medium sized 60 by 40 cm tunnel for parcels, baggage and smaller carry-on items at any check point.



GD-XR-6040-SD

The GD-XR-6040-SD is a highly efficient and advanced machine designed with security operators in mind equipped with a drop-down keyboard and a single viewing screen that can be upgraded to a dual viewing screen, the machine also supports automatic explosives and narcotics detection alarm triggering through previously recorded images for simplified detection.

The GD-XR-6040-SD offers a wide variety of technological advancements to simplify the threat detection process, such as multi-color imaging, which allows security operators to accurately distinguish between organic, inorganic, metals, compound materials, and empty spaces, another advancement is Guardex's enhanced imaging technology which allows security operators to shuffle through multiple imaging enhancement technologies such as standard multi-color imaging, reverse color imaging, black and white imaging, Pseudo imaging, variable absorption rate imaging, low-energy penetration imaging, high-energy penetration imaging, elimination imaging (organic or inorganic materials), magnification imaging and region of interest imaging and finally all Guardex X-ray machines have an intelligent AI machine learning software allowing them to learn patterns, image shapes and material compositions to better identify the same items in the future.

The GD-XR-6040-SD x-ray machine has a full lead casing of the generator for radiation control, maintaining an x-ray dose rate close to naturally occurring radiation rate levels.

The GD-XR-6040-SD is compliant with most international standards, including image quality standards, radiation limitation standards and international airport security standards while meeting the requirements of TSA, ECAC, DfT, and STAC.

X-RAY MACHINES SPECIFICATIONS

X-ray Machine

Tunnel Size	23.62 x 15.75 Inch (600 x 400 mm)
Conveyor Height	24.02 ± 0.4 Inch (610 ± 10 mm)
Monitor	17" Display Monitor
Keyboard	Drop Down from Machine Body
Buttons	Emergency Stop
Maximum Item Size	22.83 x 14.96 inch (580 x 380 mm)
Maximum Item Weight	220.46 Lbs (100 Kg)

Performance

Inspection Speed	8.66 Inches/sec (0.22 m/s)
Detection Resolution	40 AWG
Radiation Penetration	1.57 Inch (40 mm)
Radiation Leakage	< 0.42 μ Gy / Hour (Measured 50 mm from Machine Enclosure)

Scanning & Inspection

Anode Voltage	140 to 160 kV (Adjustable)
X-ray Detector	Photodiode
Cooling Method	100% Sealed Oil Cooling Cycle
Single Inspection Dose	< 1.2 μ Gy

Image

Grey Levels	4096
Recognition	Orange for organic materials Blue for inorganic materials Green for metal and compound materials
Image Playback	Last 50 inspected images
Image Storage	More than 100,000 images

Electrical

Operating Voltage	110 - 220 VAC \pm 5% 50 / 60 Hz
Power Consumption	1,000 Watt

Mechanical

Machine Dimensions	51.18 x 35.82 x 48.03 Inch (1300 x 910 x 1220 mm) (L x W x H)
Machine Weight	859.80 Lbs (390 Kg)
Operation Temperature	32 to 104 °F (0 to 40 °C)
Storage Temperature	23 to 122 °F (-5 to 50 °C)
Humidity	10 % to 90 % (Non-condensing)
Installation Environment	Indoors

Regulatory Compliance

Meets International TSA, ECAC, DfT, and STAC Security Standards
Meets International Film Safety of ISO 1600 Standard
Meets International EMC, FDA and CE Regulations and Standards

Note: The above pictures and parameters for reference only, the actual product may differ slightly.

PRODUCT FEATURES & APPLICATIONS

Image Enhancement

Black and white Images
Inverse Coloring
High-energy penetration
Low-energy penetration
Super-enhancement

Variable absorption rate
Pseudo coloring
Region of Interest
64x image magnification / Zoom (with no loss of resolution)
Elimination of organic or inorganic materials

Standard Machine

Date / time display
Baggage counter
User management
System operation clock
Image storage & retrieval
Diagnosis & maintenance

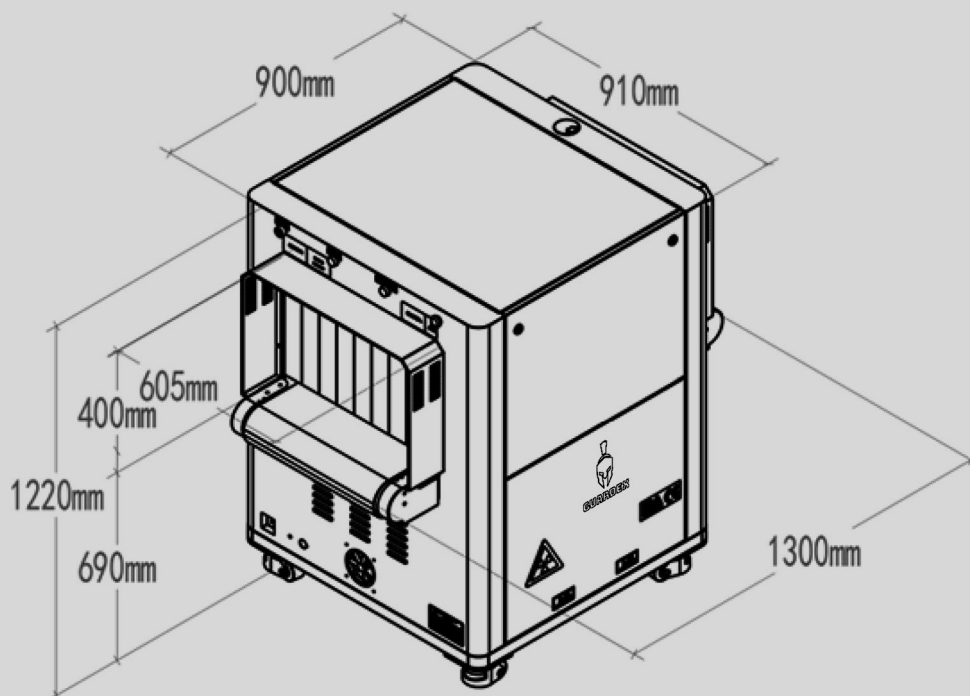
Dual scan
Image Recognition Training
High Density Area Alarm
Explosives and Drugs Auxiliary Examination
Dangerous Goods Image Insertion

Applications

Airports & Sea Ports
Stadiums & Sporting Events
Subway & Train Stations
Exhibition Halls
Hotels and Resorts
Places of Worship
(Churches, Temples,
& Mosques)

Utility Buildings
Government Buildings & Structures
Museums & Tourist Attractions
Shopping Malls
Student Campus Buildings
Office and Commercial Buildings

MACHINE DIMENSIONS



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ORDERING INFORMATION

GD-XR-6040-SD	X-ray Machine with 60x 40 cm Tunnel
GD-XR-RT-05	Loading / Pickup Roller Tables, 500 mm
GD-XR-FT-05	Inspection or Extension Fixed Tables, 500 mm
GD-XR-ST	X-ray Machine Screening Trays
GD-XR-MOC	Monitor Platform with Operator Console
GD-XR-MSW	Management Software
GD-XR-UPS	Uninterruptable Power Supply Unit
GD-XR-KTO	Kit of Test Objects



Guardex Safety

Guardex X-ray machines meet international regulatory requirements for radiation limitation and safety. Guardex x-ray machines have undergone safety research to confirm that have no adverse effect, pose no harm or leave residual radiation on material that have passed through their tunnel.

