

## Linescan<sup>®</sup> 107 Series

The **Linescan 107** is a large X-ray security screening system with a tunnel opening of 1011mm wide by 1011mm high. It is ideal for screening very large luggage, parcels, boxes and crates. The **Linescan 107** is suited for use in airports, customs facilities, nuclear power plants, correctional institutions, government buildings or any other place where high security and complete screening of large items is required.

Passenger loading of large items is made easy when equipped with the optional 2.5m inclined entry conveyor and the 775mm exit conveyor height is perfect for secondary or hand inspections.

The advanced **Linescan 107/V** is a PC based system that incorporates the latest technology featuring an enhanced modular design. This system seamlessly incorporates advanced computer options including Threat Image Projection (TIP), Operator Assist (OA) and Image Archiving (IA).

As part of the **PerkinElmer Instruments'** family of products, the **Linescan 107** shares in more than 25 years of experience in the manufacture of X-ray security products. With more than 16,000 units in the field worldwide and an extensive service organization to support them, **PerkinElmer Instruments** is clearly the world's leading supplier of X-ray security products.



Linescan 107

### Features

#### Linescan 107/III

- ▶ Dual 17" color monitors
- ▶ 1067mm (42.0") entry/exit conveyors
- ▶ Remote console controls

#### Standard features:

- ◆ Variable gamma
- ◆ Pseudo color
- ◆ Automatic threat alert\*
- ◆ Zoom 2X and 4X
- ◆ Edge trace
- ◆ High penetration
- ◆ Reverse monochrome
- ◆ Suspicious luggage alert\*
- ◆ Area threshold alert\*
- ◆ E-scan material discrimination
- ◆ Organic stripping
- ◆ Inorganic stripping

#### Optional features:

- ◆ Entry/exit conveyors 228mm and 1.7m
- ◆ Inclined 2.5m entry conveyor
- ◆ Entrance tables
- ◆ Exit roller tables or slides
- ◆ Voltage stabilizer
- ◆ CE compliance kit

#### Linescan 107/V

- ▶ All standard features of the Linescan 107/III
- ▶ Advanced Options computer

#### Optional Applications:

- ◆ Threat Image Projection (TIP)
- ◆ Operator Assist (OA)
- ◆ Image Archiving (IA)

# Linescan® 107 Series

## Technical Specifications

### General

Tunnel Opening.....	1011mm (39.8") wide x 1011mm (39.8") high
Conveyor Belt Height.....	775mm (30.5")
Power Requirements.....	115-120 VAC, 60Hz (15 amp max) 230-240 VAC, 50Hz (10 amp max)
Conveyor Speed.....	0.23m per sec (45 feet per min) @60Hz. 0.18m per sec (36 feet per min) @50Hz.
Conveyor Capacity.....	136kg (300 lbs.)

### X-ray

Voltage.....	160kVp constant potential tube
Duty Cycle.....	100%
Cooling.....	Sealed oil bath
Beam Orientation.....	Vertically Upward
X-ray Sensor.....	1600 E-Scan® photo diodes in folded array (L-shaped) configuration
Dose per inspection.....	0.1mR typical

### Physical Specifications

Weight (Uncrated):.....	Approx 1455Kgs. (3200lbs)
Weight (Crated):.....	Approx 1727Kgs. (3800lbs)
Construction.....	Steel frame on casters

### Environmental

Operating Temperature.....	0°C to 40°C
Storage Temperature.....	-20°C to 70°C
Humidity.....	95% non-condensing
Airborne Noise Level.....	<70dB (A)

### Imaging and Performance - Linescan 107/III

Resolution:.....	36 AWG guaranteed, 38 AWG typical
Penetration:.....	27mm steel guaranteed, 30mm typical
Contrast Sensitivity:.....	At least 22 levels visible as measured by a step wedge
Video Display:.....	Two 17" SVGA high resolution, low radiation, ergonomic, flicker free displays

### Imaging and Performance - Linescan 107/V

Resolution:.....	36 AWG guaranteed, 38 AWG typical
Penetration:.....	27mm steel guaranteed, 30mm typical
Contrast Sensitivity:.....	At least 24 levels visible as measured by a step wedge
Video Display:.....	Two 17" SVGA high resolution, low radiation, ergonomic, flicker free displays
<b>Computer Specifications (Minimum):</b>	
Processor:.....	Intel Pentium™ III, 500MHz
System Memory.....	128 MB Ram
Display:.....	24 Bit-True Color (16.7 Million Colors)
Hard Disk:.....	9 GB High Speed SCSI Disk Storage
Additional Drive:.....	Internal Zip™ Drive

### Radiation Safety

All Linescan X-ray systems are certified to be in full compliance with all radiation safety requirements and external emissions limits as specified in the United States Code of Federal Regulations, Title 21, Section 1020.40 (21CFR1020.40) that apply to our products. Typical leakage radiation is less than 0.1 mR/hr compared to maximum of 0.5 mR/hr permitted by the Federal Standard.

### Operational Standards

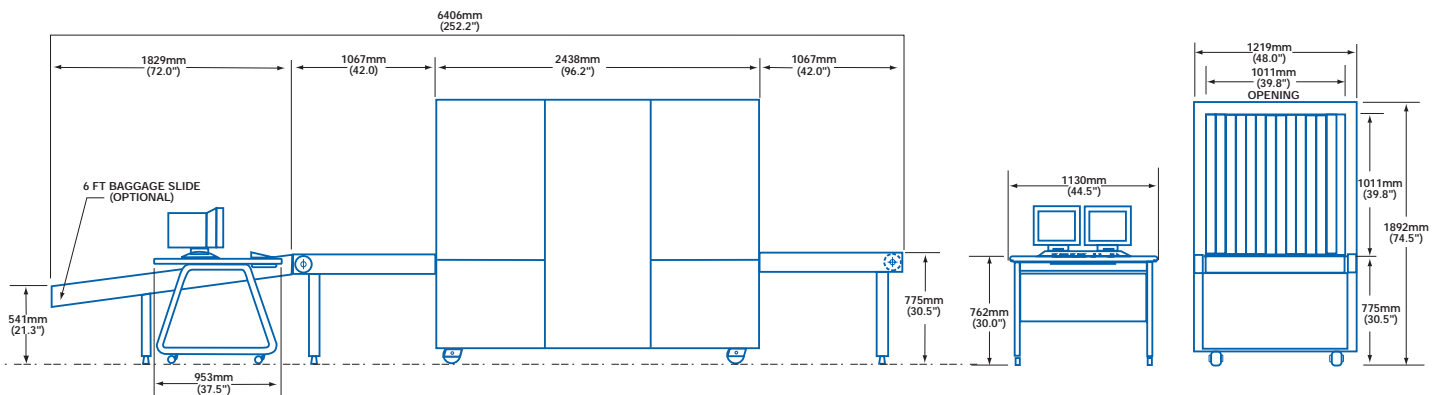
Complies with published International Standards including the U.S. Federal Aviation Administration Standards, "Use of X-Ray Systems" (Federal Standards 14 CFR 108.17 and 14 CFR 129.26).

### Film Safety

Guaranteed for high speed films up to ISO 1600.

### Design Policy

PerkinElmer Instruments reserves the right to change specifications in the course of continuous improvement. Specifications are provided for reference only and actual equipment may differ slightly from the description given. Typical dimensions are within +/- 5% of nominal values.



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