

PARCEL AND BAGGAGE INSPECTION SYSTEM POWERED BY AI



PROTEUS 5030

A QUANTUM STEP FORWARD IN SYSTEM
AVAILABILITY AND INNOVATION

KEY FEATURES

- Modular Architecture
- Colour Solutions
- Telemetry (predictive analytics)
- Artificial Intelligence software system for automated detection of firearms, knives and ammunition
- Automatic identification of suspicious objects (drugs, explosives)
- Availability of 7, 3 colour and infinite colour palettes of images
- The fault-tolerant configuration of the acquisition/analysis workstation
- Quick start and shutdown
- Real-time self-diagnostics

The **PROTEUS 5030** is a high-resolution, single view X-ray baggage inspection system with the ability to automatically detect prohibited objects and threats.

The tunnel with a width of 520 mm and a height of 320 mm is optimal for inspection of baggage, bags, hand luggage and parcels. The System may be used at inspection points of critical infrastructure facilities, law enforcement and security agencies, customs, border guards, hotels, event centers, educational institutions, sports arenas, and other places where reliable and uninterrupted operation of inspection systems is required.

The **PROTEUS 5030** enables the identification of weapons, explosives, drugs and any other dangerous or prohibited items. Unique colour palettes and touch control provide an exceptional level of operator efficiency.

FUNCTIONS

- Automatic selection of suspicious objects (such as explosives, drugs, Impenetrable areas) using Zeff and optical density
- TIP software for monitoring operator vigilance
- Secure login
- Multi-level user access with the ability to administer users, roles and access level
- Viewing X-ray images from a previous session
- Quick view of the last 10 images (configurable parameter)
- Bi-directional scanning
- Modes of operation: scanning with a stop of the conveyor after each object or without stopping, with the possibility of returning the object after scanning
- Automatic diagnostics of the System and individual units performance
- Automatic warming up of the X-ray generator during prolonged idle time (no warming up is required during daily operation of the System)
- Automatic storage of X-ray images in the archive
- Baggage counter
- Display of date and time, unit serial number and operator ID Multilingual interface
- Possibility of choice by the operator of 3, 7-colour or infinite colour palette
- Display of software version and serial number of the System
- Display of user login time and duration of the current session
- Display of the total operating time of the System
- Display of connection status, current temperature and total operating time of the X-ray source
- Visualization of safety interlocks operation
- Display of the status of optical sensors
- Formation of service reports of the System
- Three programmable keys (as part of the Control Panel KHTP)

GENERAL SPECIFICATIONS

DIMENSIONS

TUNNEL DIMENSIONS	
width	520 mm [20.5 in]
height	320 mm [12.6 in]
OVERALL DIMENSIONS (MAXIMUM)	
width	750 mm [29.5 in]
height	1200 mm [47.2 in]
length	1240 mm [48.8 in]
WEIGHT (MAXIMUM)	
	380 kg [838 lbs]

CONVEYOR BELT

Maximum distributed load on the conveyor belt	160 kg [353 lbs]
Conveyor height	713 mm [28 in]
Conveyor speed	0.22±0.03 m/s [43.3 ft/min]

X-RAY SOURCE

Anode voltage	160 kV
Beam direction	Diagonally up

X-RAY DETECTOR

* Detective ability for copper wire	0.08 mm (40 AWG)	
* Penetration on steel	36 mm guaranteed	37 mm typical
* Spatial resolution, line pairs per mm	1.0 in the direction of scanning	1.0 along the detector
<small>* To obtain the best image, the test object must be placed in an optimal location and the image enhancement function must be used.</small>		

POWER SUPPLY

Line voltage	230 VAC ± 10%/120 VAC ± 5%
Line frequency	50/60 Hz
Power consumption	A maximum of 0.9 kVA

CLIMATE CONDITIONS

Operation/ Storage:	
- Ambient temperature	0 C to +40 C / -10 C to +50 C
- Maximum relative humidity (at +20 C /at +35 C)	Up to 90%, non-condensing / Up to 98%, non-condensing

AUTOMATED DETECTION

