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safety



security



defence

Cargo & Vehicle X-Ray Inspection Gantry



The Westminster Cargo & Vehicle X-Ray Inspection Gantry detection system is a cost effective, safe, and reliable system for the inspection of trucks, vehicles and cargo containers for concealed contraband, smuggled goods, and for manifest verification. It is available in two models Standard & Enhanced Penetration.

Features

- ▶ Easy to use;
- ▶ Requires only one operator;
- ▶ High throughput, can scan up to 60 trucks per hour;
- ▶ It can Scan single or multiple vehicles arranged in a row;
- ▶ Includes a camera snapshot of scanned vehicle;
- ▶ The moving gantry allows the scanning of stationary vehicles, containers, air cargo and pallets;
- ▶ Optimised source to detector distance enhances penetration performance;
- ▶ Complete imaging of cars and trucks without corner cut-off of containers or cargo;
- ▶ Full image of truck or container contents;
- ▶ System moves on rails and can be relocated;
- ▶ Minimal infrastructure is easily integrated into existing facilities;
- ▶ Automated scanning operation, no manual controls needed;
- ▶ Designed for operation in all weather conditions;
- ▶ Safe, low radiation levels;
- ▶ Small footprint.

Specifications

Standard Model

- ▶ Source: Cesium-137;
- ▶ Penetration steel: 110mm guaranteed, 120mm typical.

WI Code: 10091

Westminster International Ltd,
Westminster House,
Blacklocks Hill,
Banbury,
Oxfordshire OX17 2BS,
United Kingdom.
T: +44 (0)1295 756300
F: +44 (0)1295 756302
E: info@wi-ltd.com
W: www.wi-ltd.com

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Enhanced Model

- ▶ Source: Cobalt-60;
- ▶ Penetration steel: 180mm guaranteed, 190mm typical.

Both Models

- ▶ Wire resolution: 5mm;
- ▶ Spatial resolution: 11mm;
- ▶ Contrast sensitivity: 2 % (A steel thickness of 2mm may be imaged behind 100mm of steel with the Enhanced Model);
- ▶ Throughput: 30-60 trucks per hour;
- ▶ Scan Speeds: Three user selectable speeds of 0.2, 0.3, 0.4 m/s;

Power Requirements

- ▶ 120 V/60Hz, 30A (220V/50Hz optional);

Operation

- ▶ Detector array: Folded "L" shaped detector array for total truck imaging without corner cut-off;
- ▶ Tunnel height: 4.8m;
- ▶ Tunnel width: 4.1m;
- ▶ Target scan size: Typical truck size: 4.5m high x 3m wide;
- ▶ Minimum scan height: Lower than 355mm;
- ▶ Scanning modes: Forward or Reverse scanning direction;
- ▶ Single or Multiple vehicles or cargo;
- ▶ 10° oblique scanning angle to enhance false wall detection.

Environment

- ▶ Temperature: 0-50°C Standard;
- ▶ With Cold weather kit option: -30°C to 50°C;
- ▶ Relative Humidity 0-98%, operates in rain and snow conditions.

General

- ▶ Remote Operator Viewing Station
- ▶ Crystal Clear and Quick Optimise Automatic Image Enhancement;
- ▶ Zoom (10X), Real-time Spot Zoom, Brightness control, Pseudo-colour, Emboss;
- ▶ Annotation, Histogram Adjustment, Log function, Square-root, Impenetrable Area Identification;
- ▶ Training mode and Online Help;
- ▶ Automatic System Calibration and Diagnostics;
- ▶ Colour Printing of Image;
- ▶ Split window for comparing images and Full screen view, Save Area of Interest; Image Archiving on CDRW, CD-R – Save Raw, BMP, JPG, TIFF formats;
- ▶ CCTV Surveillance system with image capture function

Options

- ▶ VEDS, Vehicular Explosives Detection System using Thermal Neutron Analysis to automatically detect the characteristic signatures of explosives and narcotics;
- ▶ License plate snapshot with every image;
- ▶ Remote Supervision Station (Wireless Networking);
- ▶ Image Database;
- ▶ Cold Weather Kit;
- ▶ RTIS – Passive detection of nuclear material;
- ▶ Cargo Viewer Simulator for operator training;
- ▶ Multi-Language Support for Operator Interface and Manuals.

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Safety

- ▶ This system has an intrinsically lower radiation field when compared to equivalent X-ray systems; this provides a smaller operational area and exclusion safety zone;
- ▶ The Gamma-ray technology requires less maintenance and lower cost of ownership than equivalent X-ray systems;
- ▶ This system meets applicable US and international radiation safety standards;
- ▶ Red radiation On warning light;
- ▶ Audible Alarm when radiation is On;
- ▶ Mechanical gamma ray source indicator warning flag;
- ▶ Emergency Stop button (ESTOP);
- ▶ Key to turn system On/Off;
- ▶ Fail-safe radiation source On/Off mechanism.

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