

Cargo 150150

Eurologix Cargo is a multi-energy X-ray security cargo inspection system for cargo equipped with state of the art X-ray imaging technology.

It provides high resolution and ultra clear images for easy object identification with the latest technology of computer control and image processing.

The tunnels size allows inspection of large articles making it ideal for security inspection at airports, customs, railway stations, seaports, warehouses, nuclear power stations, meeting locations and any other location needing to scan large sized goods.

It can distinguish between organic and inorganic materials by analyzing the atomic composition of the material.

It can distinguish explosives & drugs and can utilise Threat Image Projection (optional extra).

The Operator can easily identify different materials with the following colour scheme:

Organic material - Orange

Inorganic material - Blue

Mixed material - Green

High density material - Red



Specifications

General:

Weight - Approx. 3500kg
 Dimension - 7178(L) x 2437(W) x 2053(H)mm
 Tunnel size - 1527(W) x 1532(H) mm
 Resolution - 0.16mm wire (0.13 mm typical)
 Penetration - 46mm steel (48mm steel typical)
 Dose per inspection - less than 1usv, safe for film up to ASA/ISO 1600
 Radiation Leakage - Less than 2usv/h at a distance of 5cm from external housing complying with all published international standards.

X-ray Generator:

Anode Voltage - 200kV
 Beam direction - from side
 Cooling - sealed oil cooling
 Beam Divergence - 80%
 Duty cycle - 100%

Image System:

X-ray sensor - L-shaped photodiode array
 Grey level - 4096 (12 bit)
 Image processing - 24 bit processing
 Monitor - 75Hz, 22 grey level, Screen saver available
 Display resolution - 1280 x 1024

Conveyor System:

Conveyor Speed - approx. 0.20m/s
 Conveyor height - 350 mm
 Max. Load - approx. 2000kg
 Conveyor Type - Roller conveyor
 Conveyor Running Direction - bi-direction

Installation Data:

Storage temperature - 40c ~ +70c
 Storage humidity - 10% ~ 90% (non-condensing)
 Operating temparture - 0c ~ +40c
 Operating humidity - 10% - 90% (non-condensing)
 Power - 380 VAC (+10% ~ -15%), 50Hz + 3Hz, three-phase five-line
 Power consumption - approx. 3.0kVA

System Functions:

Self diagnostic - system self-diagnostic when power on

Generator self-protection function - self adjust generator power on by time of system unused.
 Operator Management - Log in by authority, four grade authority, management database available.

Selective display type - Ten colour schemes selectable

Image display type - B/W multi-energy, pseudo colour image

Image process: Light/dark enhancement
 Negative/positive image
 Edge-enhancement
 Organic stripping
 Inorganic stripping
 VARILUT scanning
 Grey scanning

Zoom & zones - 1-9 image zones, 2 4 8 times enlargement

Microscope zoom - 2-32 times enlargement in any selected window

Image stepless enchancement - 2-32 kinds of enchancement in any selected window

Image recall - Review the previous 20 images
 High absorbtion scanning - 10 levels of absorbtion scanning.

Image storage - Save more than 10,000 images, automatic or manual storage selectable.

Image search - search images according to stored time.

Thin object - easy to detect thin objects.

Function key - Provide multi-image combination processing functions through user defined keys.

Data Report - provides 5 kinds of data report.

Information display - date/time display
 - articles counter
 - operator ID codes
 - system serial number
 - system on / X-ray on
 - counter maintenance reminder

Service menu - service menu available for maintenance. It includes: test pattern
 X-ray generator test
 detector signal test
 system output test
 power supply test

Operation control - keypad and soft keys available

Bi-direction scanning - two directional scanning forward and back