

### Cargo 160190

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. 5000kg  
Dimension - 7852(L) x 2557(W) x 2441(H)mm  
Tunnel size - 1647(W) x 1925(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 degrees  
Duty cycle - 100%

#### Image System:

X-ray sensor - L-shaped photodiode array  
Grey level - 4096 (12 bit)  
Image processing - 24 bit processing  
Display resolution - 1280 x 1024

#### Conveyor System:

Conveyor Speed - approx. 0.20m/s  
Conveyor height - 350 mm  
Max. Load - approx. 3000kg  
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 rate alarm - alarm by flash  
and light enchancement to high absorbtion rate  
material.

Super image enchancement - improve image  
contrast

Image absorbtion scanning - 10 levels of  
absorbtion scanning

Image search - search images according to  
stored time

Thin object scanning - easy to detect thin  
object

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 code  
Systems serial number  
System on/ X-ray counter  
Maintenance reminder

Service menu - Service menu available for  
maintenance, includes test pattern, X-ray  
generator test, detector signal test, system  
output test, powersupply test

