



# X-Ray Baggage Scanner

## AT140100

### Product highlights

- \* Perfectly integrated with parcel/cargo conveyor belt
- \* High inspection capacity with fast scanning speed
- \* High resolution, high penetration and good image quality
- \* Multilingual operation
- \* Automatic built in test and self diagnostic program
- \* Drugs and explosives detection
- \* Threat alert and material classification
- \* Energy saving design
- \* One key turn off with patent



### Physical Specifications

Unit weight (kgs)	890
Unit size (mm)	2192(L)*2078(W)*1860(H)
after packed in wooden pallet -	
Gross weight (kgs)	1100
Packing size	#1: 243*240*220cm #2: 75*65*99cm

### General Specifications

Tunnel size(mm)	1403(L)*1008.5(W)
Conveyor Speed(m/s)	0.4
X ray dose per each inspection	$\leq 4.5\mu\text{Gy}$
X ray leakage	$\leq 1\mu\text{Gy/h}$ at any point 5 centimeters outside the external surface
Penetration	34 mm steel
Wire Resolution	dia 0.102mm copper wire (AWG38)
Penetration Resolution	dia 0.202mm copper wire (AWG32) under three-step aluminum wedge 9.5mm, 15.9mm, 22.2mm

Spatial resolution:	Horizontal:dia 1.0mm, Vertical: dia 1.0mm
Power Consumption	max. 400W
Noise	<55dB
Film Safety	Guarantee ASA/ISO1600 Film

### X-ray Generator (single)

Anode Voltage	160 KV
Ray direction	Horizontal
Cooling / Duty Cycle	Sealed oil cooling /100%

### Image System

X-ray Sensor	L-Shaped Photodiode Array, 12bit deep
Images process	24bit real time processing ,4colors analysis, Images displayed marked date and ID No., Count the number of bags
Image display	High resolution of 1920*1080 pixel; Image Grey Level: 65536
Image Enhancement	1-32 times enlargement continuity, Color/BW, negative, high/low penetration enhancement, brightening, darkening, gray level scan, super enhancement, elimination of organics/inorganics, local enhancement, pseudo color processing, edge enhancement, etc.
Explosives & Narcotics Detection	Suspicious organics highlight(atomic number $Z_{eff}=7,8,9$ )
Suspicious Alarm	Alarm and box line the suspicious objects including hard to penetrate material, explosives and drugs
Threat Image Projection(TIP)	Inserting fictional, but realistic images of threat items into baggage during screening operation, for maintenance of vigilance, as well as training and assessment of image identification capability
Image Recall	30 images recallable
Image Archive	Up to 50,000 images stored automatically, enable transferring to USB disk, and converting to JPG format
Miscellaneous Functions	Time/date display, counters, user management, system-on/X-ray-on timers, power on self test, built-in diagnostic facilities, dual-direction scanning, system log, system standby and stimulant training, etc.
Options	network, etc.

### Operating Environment

Operation temperature/Humidity	5°C-40°C / 0%-90%(non-condensing)
Storage Temperature/Humidity	-20°C to 60°C / 10%-90%(non-condensing)

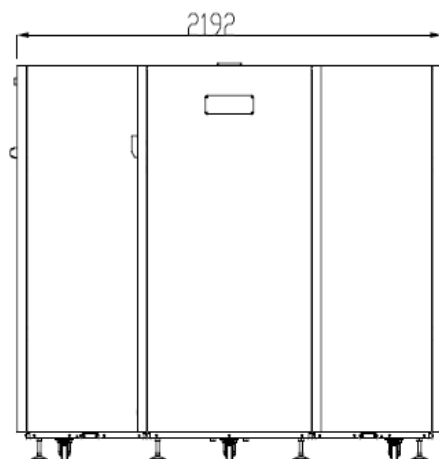
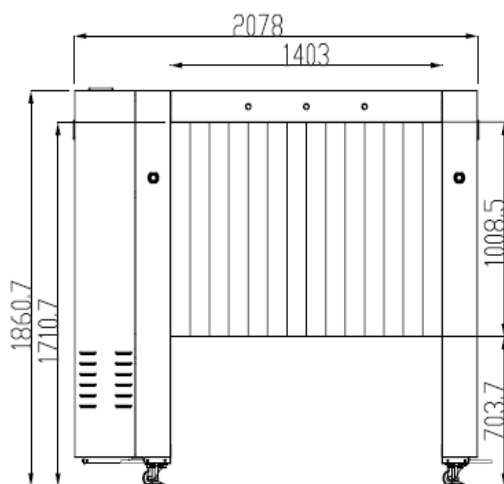
Operation Power	220VAC(±10%) 50±3Hz (Optional: 100VAC,110VAC,120VAC,200VAC)
UPS	Options: 15mins, 30mins, 60mins etc

### Computer and other

Monitor	One 21.5-inch LCD monitor, 1920*1080, one console desk
RAM	1GB
Hard Disk	500G
Keyboard	Special designed
System	Linux

### Compliance

International	<ul style="list-style-type: none"> <li>* ISO19001 ; ISO14001 ; OHSMS18001 ;</li> <li>* CE RoHS</li> <li>* FDA FCC</li> </ul>
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