



深圳市方吉无限科技有限公司

Shenzhen Fangji Infinite Technology Co., Ltd.

X RAY BAGGAGE SCANNER 150180D



◆ Features:

1. **High-end acquisition system design:** adopt imported detection system solution, imported detector, more stable performance, more safe and reliable
2. **Fully digital design:** digital generator, brushless motor, digital controller, digital collector, intelligent image processing system, AI intelligent recognition (optional)
3. **Safety and reliability design:** "bow" shape light path design to reduce radiation, full lead protection approximately zero radiation leakage; Tree circuit design, independent electrostatic protection, prevent crosstalk, prolong device life; stuck baggage protection design, generator linkage design, belt deviation design, equipment diagnosis design, 360 degree warning light design, remote management (optional), etc.
4. **Waterproof function:** special treatment in the tunnel, a small amount of liquid scattered has no impact
5. **Energy saving and environmental protection:** the machine can automatically sense the object, when the baggage is put on it will start running, and if no baggage it will stop running
6. **Environmental protection design:** lead curtain with a protective film, the shell exposed lead part spray paint is not exposed, to prevent guests from coming into contact with lead, avoid lead pollution
7. **AI intelligent identification (optional) :** suspected contraband detection based on atomic order, and AI intelligent identification based on graphics

◆ Description

1. **HD acquisition system:** The product adopts 16~24bit wide digital acquisition card, imported detector, signal-to-noise ratio up to 20,000:1, good anti-interference ability, low failure rate.



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2. **Digital/analog x ray generator:** imported technology, tungsten and molybdenum anode, oil cooled, 0.8 mm spot, rise delay less than 20ms.
3. **System self-detection function:** When the system is started or working normally, the virtual indicator on the interface indicates the working status of the system. If the device fails, it can prompt the system accurately and timely. Internal running processes can be logged (optional).
4. **Save pictures in various formats:** Users can select the format to save pictures as required. BMP, JPG, PNG, JPEG and other image formats are provided.
5. **Image file management system:** For the realization of the limited storage capacity to store more data and convenient user view designed to save the image data of the system by date save pictures, with functions of image compression, the author classifies detection capacity, capacity is insufficient, will automatically delete the earliest preserved old image data, to ensure that does not affect storage new pictures, at the same time, the system to provide the online image browsing, Can quickly browse any saved picture. Support image by user name, date query, delete, export and other functions.
6. **Multi-user management:** 3 Levels user management
7. **Data recording:** automatically save user operation process, support process search, statistics
8. **TIP function:** provides TIP insertion and TIP training
9. **Supports contraband detection (optional):** supports penetrable alarm of high-density substances, and supports detection of suspected explosives, drugs, and narcotic drugs based on atomic sequence.
10. **Energy saving and environmental protection:** support ultra-thin object detection, support the static function when there is no object until the luggage is put on the machine
11. **A variety of image processing functions:** low penetration, high penetration, gray display, hair color display, brightening, darkening, local enhancement, super enhancement, organic, inorganic, rolling magnification, etc.
12. **Networking function:** support bureau network, security network (optional), remote management (optional)
13. **Multil language environment:** Support English, Japanese, Russian, Turkish, French, Arabic, others (customized).
14. **Person-baggage association (Optional):** When a baggage is near the device, intelligent scene recording is triggered, and the recorded files are associated with the baggage and stored
15. **High-speed security check (optional):** maximum detection speed is 2.5m/SEC.
16. **AI intelligent identification (optional) :** Support 85 categories of contraband identification.
17. **Advertising (optional) :** LED/LCD dynamic advertising.
18. **Provide customized services: equipment appearance, software interface and system functions can be customized.**

◆ Basic Parameter:

Tunnel size:	1505 (W) × 1800 (H) mm
Conveyor speed:	0.22m/s



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Conveyor belt load rating:	2000KGS max
Conveyor height:	350mm
Line Resolution:	Top : $\Phi 0.127\text{mm}$, Side: $\Phi 0.101\text{mm}$
Spatial resolution:	Top : H/V 1.3mm, Side: H/V 1.3mm
Penetration:	Top: 32mm steel, Side: 34mm steel
Wire penetration:	Top: $\Phi 0.254\text{mm}$, Side: $\Phi 0.202\text{mm}$
leakage dose:	Typical 0.2 $\mu\text{Gy/h}$, guarantee 0.5 $\mu\text{Gy/h}$
leakage dose per inspection:	Typical 3.0 $\mu\text{Gy/h}$, guarantee 4.8 $\mu\text{Gy/h}$
Tube voltage:	200KV * 2
Cooling/Working cycle:	sealed oil cooling /100%

◆ Image processing system

Color image display	according to the material, pseudo color display
Edge enhancement	Object contour edges are sharper
Super image enhancement	Image edge details are clearer
High penetration display	Improve the contrast of bright area in the image, make the easily penetrable area clearer
Low penetration display	Improve the contrast of the dark area in the image and make the hard to penetrate area clearer
magnifying lens	Local amplification function, dynamic real-time 100 level amplification
Lighten/darken	Increase image brightness/decrease image brightness
Image pull back/forward	Display the first 10 images, and the image can be any image processing
Image restoration	One click image display to restore the original
Image store	High speed electronic hard disk, the default support 5,000,000 image storage, continuous work to save

◆ Operating environment

Operating temperature/humidity	5℃~40℃/20%~95% (non-freezing)
Storage temperature/humidity	-20℃~60℃/20%~95% (non-freezing)
Working voltage	220VAC ($\pm 10\%$) 50 $\pm 3\text{HZ}$
Power consumption	2.5KW (Max)
Noise	<60dB



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◆ Structure size

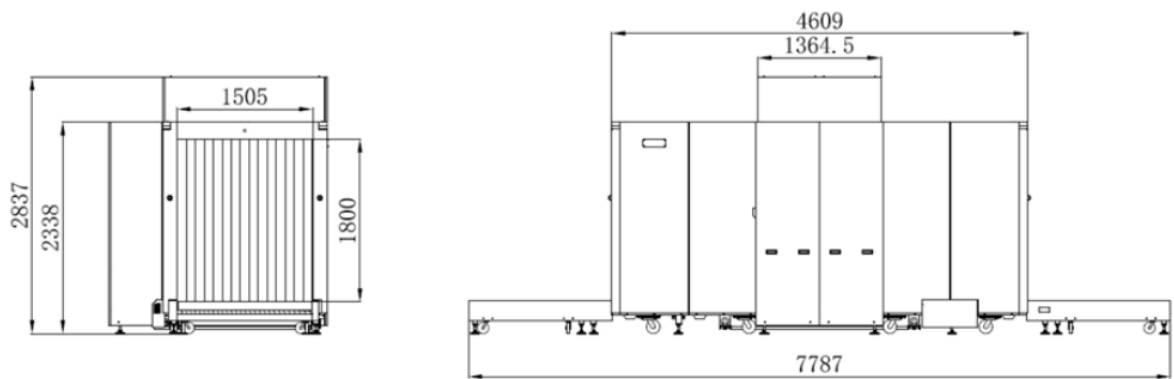


Image rendering

