Shenzhen Fangji Infinite Technology Co., Ltd.

FJWX X-RAY BAGGAGE SCANNER 6040D

Core advantages

4-Color: Orange, Blue, Green, Red(Black)
7-color: Tangerine Brown, Orange, Green, Blue, Violet, Red(Black)

Zeff: An X-ray Effective Atomic Order Decision Technique.

$$Z_{eff} = (\sum a_i * Z_i^{3.5} / \sum a_i)^{V3.5}$$

Tools: More than 36 Auxiliary Functions. E.g.: Print, Search, Gray, View, Video, SNMP, Ai, etc.

Rack: Humanized design, latch type door. No need any screws

Customized: OEM, ODM,SKD. Software Update (Phase Image, Dark-field Image, etc) at free for life.

Company

Fangjiwuxian(FJWX) is focusing on X-ray for 12 years, we can provide you with the best X-ray technology solutions: perspective imaging technology, Phase Image technology, Dark field Image technology, and 3D imaging technology.

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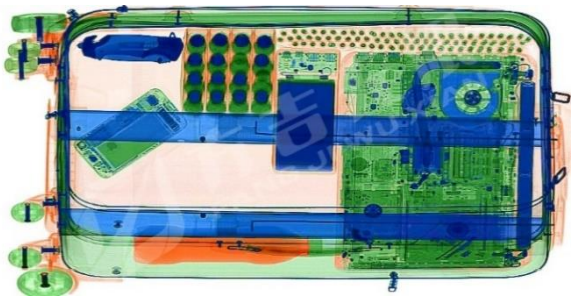
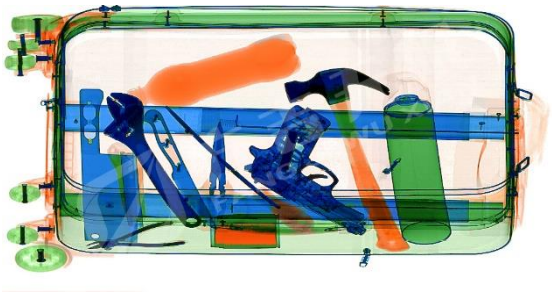
*To continuously improve our product, Fjwx® reserves the rights to change the design and the specifications without prior notice.

Key Advantages

Dual Energy Image

It provides dual-view images from bottom-to-up and side-to-side. Relying on dual energy detectors can better make material classification decisions and use true colors to draw object features.

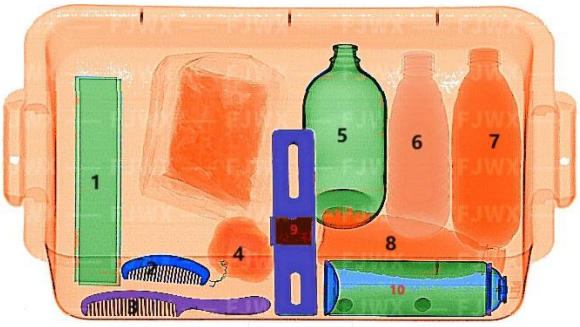




4 and 7-COLOR IMAGING

The FX6040Dinnovative design with exclusive 7-color Dual-energy Technology, advanced material classification enables operator to view screened objects in 7 colors, each color correlate to a specific range of Zeff. It colors the 3-Kerosene with RED more easier to see.

4-color



7-color

Note：1：aluminium 2：iron 3：silver 4：carbon 5：glass 6：gasoline 7：water 8: Thinner 9: lead 10: aluminum alloy

Material Type	Atomic No.	Colors	Colors	Example	Possible Threat
Light Organics	6	Orange	Tangerine	Polyethylene, light hydrocarbons	Natural gas, gasoline, kerosene
Organics	6~8	Orange	Brown	Timber, oil, alcohol	Explosives, pure drugs, diamonds
Light Inorganics	8~10	Orange	Orange	Paper, Teflon, water	Drugs
Inorganics Nonmetals and Light Metals	10~19	Green	Green	Glass Aluminum, silicon	Gems ,Gunpowder, detonators
Heavy Metals	19-40	Blue	Blue	Iron, steel, copper, brass, nickel, titanium	Weapons, ammunition, knives
Dense Metals	40+	Blue	Violet	noble metal	Silver, Platinum, Gold
Impenetrable	-	Red(Black)	Red(Black)	Lead, bismuth	Hidden threats

humanity design

1. Keyless and screwless structure designed based on the latch structure for easy repair and maintenance;
2. Multiple beam group designed reduces ghosting and radiation dose, and adopts 6-8mm lead

protection on the main optical path, with dual 0.5P lead curtains and protective covers at the entrance and exit;

3. Energy saving and environmental protection designed, reduces energy consumption and radiation.
4. Overload, over current, over voltage, and electrostatic protection design to protect the equipment and operators safety.
5. Double emergency stop design, the one stops the transmission and cannot turn on the light source. The another one protects the power outage. It is better protecting the PC host.
6. Automatic login, automatic image saving, video association, and simplified user operation complexity..

Fuction Advantages

The FX6040D system is to control the x-ray baggage scanner as well to acquire and process the x-ray image with different tools to find the potential threat.

IMAGING PROCESSING TOOLS

- Switchable 4 and 7 Colors 3D Mode
- Inverse Mode
- Gray
- Edge enhancement
- brightening, darkening
- Organics & Inorganic & Mixture
- Super &Partial Enhancement
- High & Low & Fusion Energy
- TIP,Print,View,Search,Snmp(optional)
- Density Threshold Alarm(DTA)
- Continuous Zoom(64X)
- Splicing-scan(S-scan)
- Continuous Scan(C-scan)
- Z_{eff}-scan(Z-scan)
- AI (optional)

AUXILIARY FUNCTIONS

- Bidirectional Scanning
- Recall Historical Image
- Query & Backup & Mark Image
- Baggage Counter
- Day/Time Display
- Multi-language Operation
- Storage Type: PNG, JPEG, BMP
- Different Access Level Account
- Roller Table
- Extended Roller(optional)
- Guard God Protective Cover(optional)
- Video Association(optional)
- Emergency stop
- Conservation protection
- Remote control(optional)

Technical Parameters

GENERAL SPECIFICATION	INTERNATIONAL STANDARD
• Tunnel Size: 605 （W） × 405 （H） mm	• Wire Detect ability: 0.102mm AWG38 (Standard)
• Belt Speed: 0.23m/s (45ft/min)	• Wire Penetration: 0.203mm AWG34(Standard)
• Conveyor Load: 150 kg (evenly distributed)	• Spatial Resolution: 1.0mm Horizontal, 1.0mm Vertical
• Conveyor Height: 650mm(25.59 in.)	• Steel Penetration:
• Power consumption: 0.5KW （Max）	T:36mm steel(Standard) 38mm steel(Typical)
• Noise: <55DB	S:38mm steel(Standard) 40mm steel(Typical)

X-RAY GENERATOR	COMPUTER
• Voltage: 160KV • Tube Current: 0.7 mA • Cooling: Sealed Oil Bath with Forced Air • Duty Cycle: 100%,Warm-Up Procedure Required • Beam Direction: Upward and Sideward • Detector: L-Shaped Array • Dual-energy: Yes	• Processor:Intel Pentium I5 • Memory:4 GB RAM • Storage:128G (standard) • Platform:Windows®OS • Display Type:1*21.5" wide angle display • Display Resolution:1920 x 1080 (standard) • Image Arching:5,00,000 images
HEALTH AND SAFETY	**WORKING ENVIRONMENT**
•Complies with GB15208.2-2018 standard • Typical Radiation leakage is less than 0.1 mR/hr(1.0 μSv/hr) • Film Safety: Guarantee ISO 1600 (33 DIN)	• Operating Temperature: 0°C- 40°C \ 32°F - 104°F • Storage Temperature: -20°C- 60°C \ -4°F- 140°F • Humidity: Up to 95% Non-Condensing • Power Requirements: 220VAC±10%, 50/60Hz, 10A Max

Certificate and Standard

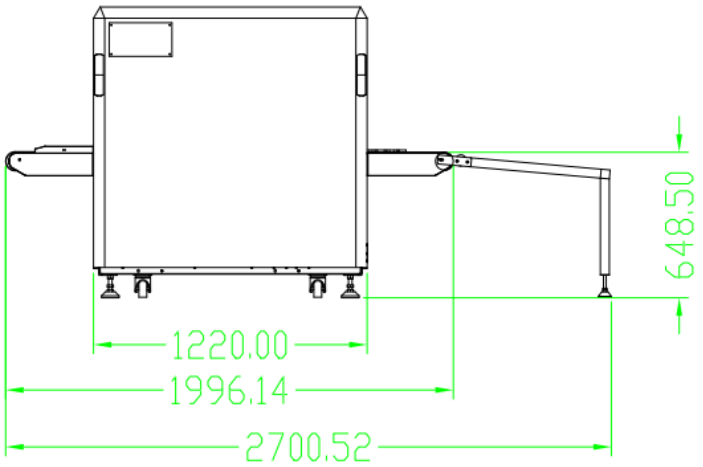
* CE Compliance:
The Electromagnetic Compatibility Directive 2014/30/EU
The Machinery Directive 2006/42/EC
LVD Directive 2014/35/EU
* RoHS: (EU) 2017/2102
* FCC Compliance Part 15 B,ANSI C63.4:2014
* Film Safety: Up to ISO 1600(33 DIN)
* Radiation Safety Certificate
* ISO9001 Quality Management System

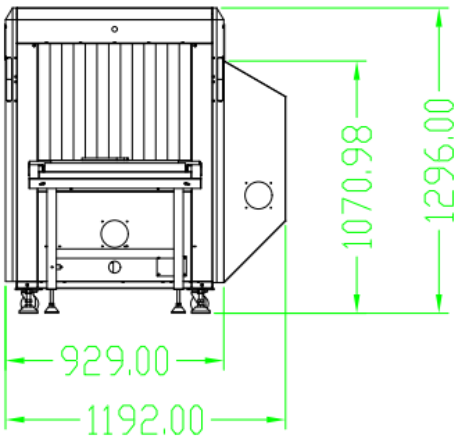
• **RADIATION SAFETY CERTIFCATE**

FJWX Systems comply with all applicable international health and safety regulations including Ministry Security and Radiation Safety Certificate by Human Settlement and Environment Commission of Shenzhen Municipality. The x-ray leakage is lower than the limit of 1.0 μ Sv/hr(100 μ R/hr) at all panels and ports measured at the distance of 5cm. The external radiation emission of U.S. Federal Limit is 5 μ Sv/hr.

Warranty and Service

Warranty
• 1 years warranty • Replacement parts and shipping cost at fjwx expense • Software upgrade • An extended warranty is available • The warranty shall take effect seven days after receipt of the goods
Service
• Free Factory Training, included technical training, operator training • Remote Control, remote support any time .On-site Support, the engineer is allowed to send oversea to give professional technical support • 24-hours Online Service, technical personnel will be assigned to solve your problem immediately after receiving telephone and hear feedback idea of users and deal with them in time • Support OEM ODM SKD service





Optional Functions(additional cost)

Exclusive Control Panel

1. 304 stainless steel industrial keyboard
2: Supports emergency stop, start, and key shutdown
3.Touch the mouse, fingerprint lock(optional)

Part#: Fj-KA001

AI Threat Detection

1.Intelligent identification of over 95 types of prohibited items, such as knives, guns, blunt tools, firecrackers, hair glue, etc
2.Integrate with the security inspection system without changing the behavior and habits of security inspection usage

Part#: Fj-Ai001

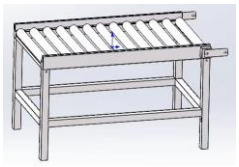
Security Tray

1. Size:680*150*135mm
2: Materil:pp
3: N.W.:1.725kg

Part#: Fj-Tr001

Superior Roller Frame

The rollerbed is all made of 304# superior stainless steel,mounted on both inport and outport platform to transmit the baggage easily.
Lenth:0.5m(Support for extendable length)



Part#: Fj-SR001

Build-in Mutil-angle Cameras

Built in 4 cameras, 2 for each channel entry and exit. One for monitoring luggage and one for monitoring scenes Synchronize output with security inspection images, and real-time grasp the status of security personnel.

Part#: Fj-Vd001

UPS

1:For Machine:30min above(built-in Battery)
2:Under voltage/high voltage/power off automatic switching
3:For Data protection when electricity cut off.

Part#: Fj-Ups001

Voltage Stabilizer

Filter out the unstable current voltage crest value, stable output with rated current voltage to protect device. Built in filter circuit and lightning arrester.

Part#: Fj-Vs001

21'5 LCD Touch Screen

Clarity with touch: 21.5 inch Full HD touch screen, get a easier and faster operation Resolution: 1920*1080

Part#: Fj-LCD001