

X-Ray Baggage Scanner HP-SE100100C



Exclusive
Spectrum
7-color
Imaging
Technology



Large Tunnel
Opening to
Feed Different
Size Cargo
Screening



Auxiliary
Explosives and
Narcotics
Detection
Tools



More Than
30 Versatile
Image
Processing
Functions



Advanced
material
classification
(atomic
number)



Unique
Neoteric
Double
Symmetrical
Swing Door

Application

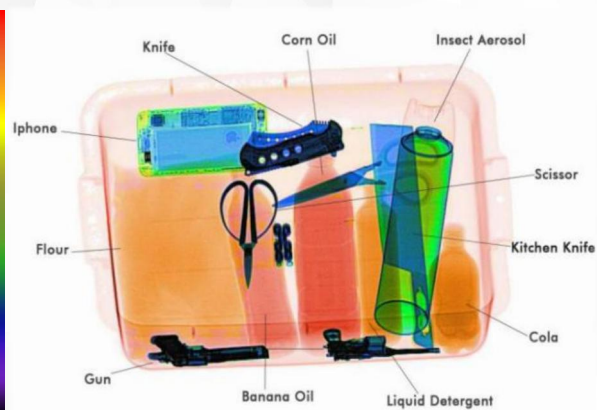
The X-ray Systems state-of-the-art high performance X-ray baggage scanner, solutions, and the services perfectly meet the most demanding potential threat inspection needs at border crossings, railway stations, logistics company, hotels, government and military installations and high-risk facilities all over the world. It is the ideal for the cargo screening.

Key Advantages

4 and 7-COLOR IMAGING & ASSISTANT EXPLOSIVE AND NARCOTICS DETECTION

The HP-SE100100C's innovative design with advanced and exclusive SE 7-color Imaging technology enables operator to view screened objects in 7 colors, each color correlate to a specific range of atomic number.

Combine with the Zeff-scan function to auto-highlighting the potential threat of explosive and narcotic (liquid or solid) on x-ray image in real time during scanning process according to the characteristics range of explosives and narcotics atomic number, which help to identify the suspicious more effectively.



DUAL-ENERGY CLEAR IMAGING & SPLIT-SCREEN TECHNOLOGY



Dual-energy supports to identify then display the objects concealed in bag in the specific color according to their atomic number, the metallics (guns, bullet, knife) can be blue, the organic (plastic, cloth, currency) can be orange.

Safeagle® scanning screen supports multiple **Split-screen** and **Full-screen** options for optimal viewing, operator can customize the color mode of the switchable main screen and auxiliary screen respectively.

VERSATILE SOFTWARE WITH 30 IMAGING PROCESSING TOOLS

- With over 30 imaging processing tools and detection alert algorithm functions;
- Multiple access level account with different operation privileges according to the status hierarchy;
- Backed by a team of rich experts, support customized function modules according to clients' requirements;

HUMANIZED STRUCTURE WITH HIGH PROTECTION LEVEL

- Foldable conveyor, leaded rigid-steel structure and double layer leaded curtain to block x-ray dose;
- Equipped with double symmetrical swing door at its both sides for convenient repair and maintenance;
- Provided with system energized, X-Ray on indicators and emergency stop buttons at both ends of X-Ray tunnel;
- 4 high-strength caster wheels at its base for ease of maneuverability, enable operator to move the scanner easily;
- Offer adjustable wear-resistant foot cups to achieve stability and security during use;
- The shift knob and key switch are securely located on top of the console, one-key start and shutdown anytime.

Software Advantages

The SE software 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, all the tools can be controlled by Safeagle® Exclusive Control Panel.

IMAGING PROCESSING TOOLS

- Switchable 4 and 7 Colors Mode
- Inverse Mode
- Gray
- Variable Gamma
- Organics & Inorganic & Mixture Striping
- Plus 6 kinds Pseudo Color Display
- Variable High & Low Penetration
- Log & Exp Trans
- Gaussian Blur& Sharpen
- Super & Partial Enhancement
- High & Low & Fusion Energy
- Density Threshold Alarm(DTA)
- Continuous Zoom(64X)
- Splicing-scan(S-scan)
- Continuous Scan(C-scan)
- Zeff-scan(Z-scan)
- AI Roller(optional)
- Reset Image
- Calibration

AUXILIARY FUNCTIONS

- Bidirectional Scanning
- Recall Historical Image
- Query & Backup & Mark Image
- Print Image
- Baggage Counter
- Day/Time Display
- Multi-language Operation
- Auto Image Archiving
- Storage Type:PNG, JPEG, BMP
- Start-up Self-diagnostics
- Real-time Image Manipulation
- Different Access Level Account
- Network Ready
- Secure Access Key
- Emergence Stop Button
- Console and Exit Landing Platform
- Interlock(optional)
- Threat Image Projection(TIP)(optional)
- Operator Training System (OTS)(optional)

Technical Parameters

GENERAL SPECIFICATION

- Tunnel Size: 1001(W)x 1001(H)mm [39.6x39.6 in.]
- Belt Speed: 0.23m/s (45ft/min) Forward
- Conveyor Load: 250 kg(551 lb) Evenly Distributed
- Conveyor Height: 380mm(14.95 in.)
- Noise: <45DB

X-RAY GENERATOR

- Voltage: 140kV
- Wire Detectability:40 AWG
- Spatial Resolution:1.0 mm Horizontal, 1.0 mm Vertical
- Steel Penetration: 36 mm steel Typical
- Tube Current: 0.7 mA
- Cooling: Sealed Oil Bath with Forced Air
- Duty Cycle: 100%,No Warm-Up Procedure Required
- Beam Direction: Diagonally Upward
- Detector: L-Shaped Array
- Dual-energy: Yes
- Generate Angel: 80°

WORKING ENVIRONMENT

- 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

COMPUTER

- Processor: Intel® Pentium G4560
- Memory: 4 GB RAM
- Storage: 1TB SSD (standard)
- Platform: Windows®OS
- Display Type: Single 21.5" LCD Color Monitors
- Display Resolution: 1980 x 1080; 24 bit/Pixel Color
- Image Arching: 2,00,000 images

HEALTH AND SAFETY

- Compliant with National Radiation Safety Standards for Cabinet X-Ray Systems.
- Typical Radiation leakage is less than 0.1 mR/hr(1.0 µSv/hr)
- Film Safety: Guarantee ISO 1600 (33 DIN)

Optional Functions(Additional cost)

➤ Exclusive Control Panel

Integrated with Start-up System, Finger-print System, touch-pad, and E-stop Button. All software commands integrated into shortcut of this keyboard, realize one key control more than 2 functions, make the operation more.

Part#: SE-XR001



➤ Built-in Multi-Angle Cameras (3+3)

6 built-in cameras (3 on each side), one for baggage monitoring, one for passenger, one for environment monitoring. Support data tracing via mobile phone. (PS: need one more monitor to display monitoring screen.)

Part#: SE-XR003



➤ Supervisor Monitor Platform(Console)

➤ Included

Operator working station to put the monitor and keyboard. Equipped with Start System, Emergency Stop Button Lockable cabinet, wheels for quick portability.

Part#: SE-XR004



➤ Intelligentized(AI) Roller

Belt rolling only when the IR be triggered, or it remains static, which is energy-saving and helps to extend machine lifetime.

Part#: SE-XR006



➤ UV Disinfection Solution

Embedded the UV light in both exit and entry covers inside left, right and top to eliminate bacteria and viruses on the surface of the scanning parcels and inspection tunnel.

UVC: 270-280nm

Part#: SE-XR004-1



➤ Superior Roller Tables

The rollerbeds are all made of 304# superior stainless steel, mounted on both exit and entrance platform to transmit the baggage easily. Adjust freely according to the height of machine. Length: 0.5 m increment

Part#: SE-XR007



➤ Voltage Stabilizer

Filter out the unstable current voltage crest value, stable output with rated current voltage, to protect device.

Part#: SE-XR008



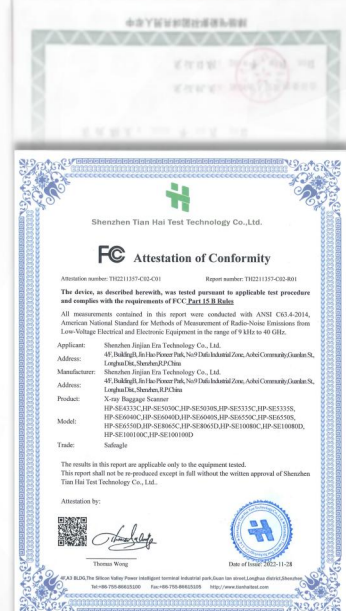
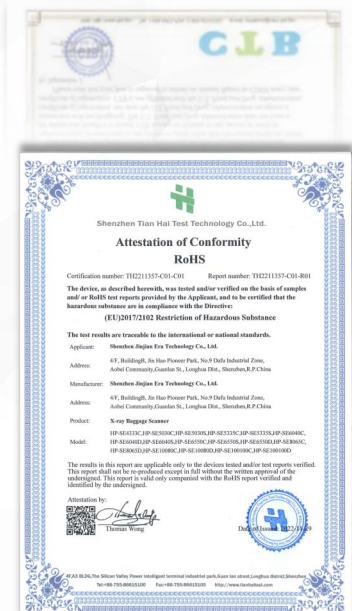
➤ Uninterrupted Power Supply

For Computer: 20 min
For Machine: 2 hours
For Data protection when electricity cut off.

Part#: SE-XR009



Certificate and Standard



- * US. FDA: Title [21, CFR, Part 1020.40]
- * CE Compliance:
- Directive 2014/30/EU Electromagnetic Compatibility
- The Machinery Directive 2006/42/EC
- LVD Directive 2014/35/EU
- * RoHS: (EU) 2017/2102
- * FCC Compliance Part 15 B Rules
- * Film Safety: Up to ISO 1600(33 DIN)
- * Radiation Safety Certificate
- * ISO9001 Quality Management System

* RADIATION SAFETY CERTIFICATE

Safeagle® Systems comply with all applicable international health and safety regulations including USA FDA X-ray systems (Federal Standard 2.1-CFR 1020.40), 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.



