Summary

CX100100TI X-ray Inspection System, abbr. CX100100TI, is an advanced dual-energy X-ray security inspection system, and is newly designed and produced by NUCTECH COMPANY LIMITED.

CX100100TI adopts the most advanced state-of-the-art X-ray imaging technology, which provides excellent image quality combined with unsurpassed operation ergonomics, reliability and safety, due to its high image resolution. CX100100TI is perfectly suitable for security and customs requiring inspections of luggage and small cargo at airports, railway stations, ports, storehouses, government offices, stadiums, etc.

Technical Features

Advanced material identification. With the dual-energy technology, CX100100TI can easily identify material and color them as the following scheme: Organic material (orange), Inorganic (blue), Mixture and lighter metal (green).

Low X-ray leakage dose rate. To assure the 100% safety of the operators as well as the public, CX100100TI (both standard mode and enhanced mode) is designed to reach the minimal X-ray leakage. And the environment radiation dose rate around the device is closed to the natural background and complies with all published National/International standards.

Free selection and continuous zoom features. CX100100TI offers multiple zoom in/out mode which combines with the miniature display make the inspection more efficient e.g. continuous zoom in/out, stepwise zoom in/out and local zoom in/out.

General Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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<tbody>
<tr>
<td>Tunnel Size</td>
<td>1010mm (W) × 1005mm (H)</td>
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<tr>
<td>Conveyor Speed</td>
<td>Approx. 0.20m/s</td>
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<tr>
<td>Conveyor Height</td>
<td>Approx. 300mm</td>
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<tr>
<td>Max. Load</td>
<td>200kg (even distributed)</td>
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<tr>
<td>Display Monitor</td>
<td>Color LCD monitor / high resolution of 1280×1024</td>
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</table>

Image Processing system

- Image Enhancement: Color/BW, Negative, High/Low penetration, Variable absorptivity, Organic / Inorganic stripping, Super enhancement and Pseudo color, etc
- ROI & Zoom: Selectable image zoom regions, 1~64-time enlargement
- Image Recall: Preceding image recallable
- Data Storage Capacity: Up to 50,000 images

Health and Safety

Film Safety: Guaranteed for high speed film up to ASA/ISO 1600 (33DIN)

System function

- Date/time display
- Luggage counter
- Operation log
- Operator management
- System-on/X-ray-on timers
- Power on self test
- Built-in diagnostic facility
- Dual direction scan
- Operation training

Options

- Threat Area Alert
- Explosives / drugs detection
- Threat image projection (TIP)