NOVUS
Innovating Possibilities

X-RAY
BAGGAGE SCANNER

Model - NS-XS1-1000

Overview

X-ray baggage scanner is a security device used to inspect luggage and other items for concealed threats. It emits X-rays that penetrate through the object, generating an image that displays its contents on a monitor.

Security personnel use this image to identify potential threats, such as weapons or explosives.

Features

• X-ray baggage scanner produces high-quality images luggage.

• Multiple viewing angles enhance efficiency of the product.

• The device can quickly scan large volumes of luggage.

• Image quality, contrast, and other parameters can be optimized.

• The product can quickly respond to any potential threats.

• It has built in self check and diagnosis function.

Benefits

• X-ray scanners identify threats quickly and accurately.

• Detection of potential hazards improves safety for all.

• Large volumes of luggage can be screened quickly.

• X-ray scanners are affordable and require minimal maintenance.

• Passengers are not physically affected by the scanning process.

• Scanners can identify weapons, explosives, and contraband.

Technical Specifications

Tunnel Size	1011*1006.5mm (width×height) (±20mm)
Product Size	4835*1295*1916.5mm (L×W×H)
Wire Resolution	TypicalAWG36
Penetration Resolution	TypicalAWG24
Spatial Resolution	Vertical:1.6mm, Horizontal:1.6mm
Steel Penetration	Typical 34mm (±2mm)
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Resolution of Organic Matter	1-120mm
Gray Scale & Mixture Resolution	1-40mm
Resolution of Inorganic Objects	0.2-10mm
X-Ray Dosage Each Inspection	≤2.5µSv (uGy)
Boundary Leakage	≤0.5µSv /h(uGy/h)
S/N Ratio	<60dB
Conveyor Speed	0.2m/s
Conveyor Max Load	200kg
Power Consumption	1.0KW
Leakage Current	≤5.0mA
Film Safety	Guarantee/ISO 1600 Film
Weight	940kg
Operation Temperature /Humidity	5C-40C/0%-90%
Storage Temperature/ Humidity	-20C-60C /10%-90%
Atmospheric Pressure	86kPa-106kPa AC
Operation Power	220V(±10%-15%) 50±3Hz
Operation System	Linux
X-Ray Generator	140 K V, oil cooling, from top to bottom

Technical Specifications

Electric Roller	One- phase
Operating	Linux, operating 1G, storage 8G
Monitor	19" L E D screen, resolution: 1920*1080pixels
Operation Console	Double screen console
Power-On Self-Test	With the function of fault self-check, automatically judge the fault and prompt the fault code information in time
Image Processing	With the function of Color/ B W, negative, high/low penetration, organic /inorganic stripping, general enhancement, pseudocolor, etc
Image Recall	30 preceding images are recallable.
Images Stored	Up to 10,000 images automatic storage
Real-Time Curve	The real-time curve can be used to detect whether the acquisition system and components work normally
Time Setting	System time can be set manually
Probe Setting	It can realize the manual deletion of the low and low energy detection board dead pixels, and display the deleted dead pixels in the display area
Ray Source Setting	There are two source and analog source control modes, the source parameters of the digital source can be set
Alarm System	The alarm function can be activated and deactivated, the alarm type of the alarm box sound and light alarm can be selected, and the sensitivity, minimum absorption rate, the maximum absorption rate, and alarm duration can be set
Troubleshooting	It can realize whether the components such as the entrance and exit light barrier, side panel switch, emergency stop switch, and light source are normal, and display the standard value and the current value of the detection voltage
Image setting	Drum running control direction and the image display moving direction can be set
Software registration	Realize software registration functions and has a serial number, registration code, registration status and system time information display

Technical Specifications

User login	Log in by entering different user names and passwords, only when logging in can you make other settings.
Software registration	Realize software registration functions and has a serial number, registration code, registration status and system time information display
User management	Add, delete, edit the user name and password, and set the user level to restore the deleted user.
language	English
About	Version and device number can be displayed
TIP report	Reports can be generated by the tip operation after the tip insertion function is turned on, and the content of the report: user name, number of tip insertions, number of tags, false-positive rate, probability of detection, probability of false positives.
Tip management	Function to enable and disable the insertion of dangerous goods and can set the identification time, prompt time, insertion frequency, proportion of single items inserted into dangerous goods, add tip files and delete files
Document management	Query, open, and export the checked image
Function setting	Set log level, save the file time, whether to open the training function and setting the smart roller
Data setting	Display system working hours, total working hours of the ray source, total number of system baggage and packages, and the total number of baggage packages this time, and clear the above data
System parameter setting	It can select the exported data, pictures, and backup directory, select and adjust the motor type, detector type, whether to enable the debug mode, model, and gain, enter the corresponding IP address on the network connection to realize sharing function a