COMPANY INTRODUCTION

Techik Instrument (Shanghai) Co., Ltd is the leading manufacturer of X-ray inspection and metal detection system with IPR in China and pioneer in indigenously developed Public Security. High quality X-ray baggage scanner, walk-through metal detector and handheld metal detector, dangerous liquid detector, explosion-proof equipment and related products are provided to mitigate and greatly reduce all the threats and risks . Techik designs and offers the art products and solutions to meet the demands of global standards, features and quality. Fully comply with CE, ISO9001, ISO14001 management systems and OHSAS18001 standard which bring you great confidence and reliance. With years of accumulation of X-ray inspection and metal detection technology,Techik's fundamental mission is to answer every customer's need with technological excellence, strong design platform and continuous improvement in quality and service. Our goal is to ensure security and peace around – Safe with Techik.

CONTENTS

Techik®

X-ray Baggage Scanner

X-ray Baggage Scanner adopts top level material identification technology. Based on the effective atomic number of the inspected material, the equipment can discriminate organics/inorganics/mixtures and color the image to make it easier for the operator to identify. It can also help to detect out drugs and explosive powder. We adopt advanced industrial design concept to make appearance more simple and beautiful.

Clear Image

Resolution and penetration has reached the top level.

Low Leakage Radiation Dose

The radiation dose surrounding the equipment approximates to natural safety level and in full compliance with all international radiation safety requirements and external emissions limits.

TIP Function

Threaten image projection function, enhance the operator's image recognition ability in training and assessment.

Image Enlargement and Free Selection Function

The equipment can achieve image enlargement progressively, continuously, partially etc. Also, by combining to navigation map function, it can make image enlargement more convenient and efficient.

Image Format Conversion Function

The image can be converted to JPG, BMP, GIF, etc formats and transferred to the USB storage device at the same time.

Special Design

The design of keyboard, image display and human-computer interaction interface are based on human body engineering principle, improving the usability of the equipment.

Fast Diagnosis and Maintenance

Modular design and test diagnosis function of the key components such as the X-ray source, detectors array, professional keyboard, making fault diagnosis and maintenance of the equipment more accurate and faster.
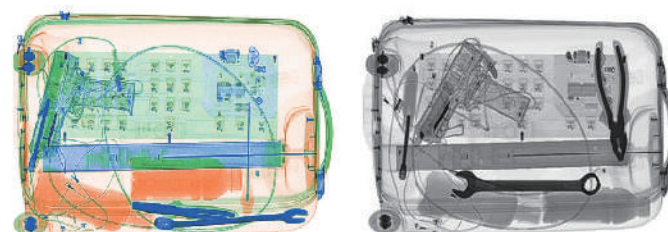
Excellent Image Processing Functions

High-energy Penetration Function

Enhance contrast of the materials difficult to penetrate so as to detect objects hiding under the materials.

Enhancement Function

Image enhancement function achieves the best contrast of whole image, making the easy-penetrate and difficult-penetrate materials display on the screen at the same time.
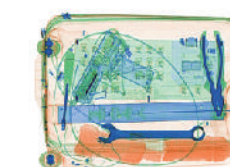
Image Enlargement Function

variable zoom, 1-32 times enlargement, support continuous enlargement.

Rejection Function of Organic Materials and Inorganic Materials

Organic rejection: under this function, organic materials will be shown in black and white, the inorganic materials including the one covered by organic materials and mixture will be shown in blue and green.

Inorganic rejection: under this function, inorganic materials will be shown in black and white, the organic materials including the one covered by inorganic materials and mixture will be shown in orange and green.

Image Storage Function

Save images automatically to review conveniently.

TE-XS5030A X-ray Baggage Scanner

Application: security inspection for carry-on baggage or parcels etc. It is an ideal security inspection system to inspect small size baggage in railway stations, bus stands, government institutions, mall centers, multiplex theaters, hotels etc.

➤ Main Features:

- Compact Design
- High Density Alarm
- Cost Effective
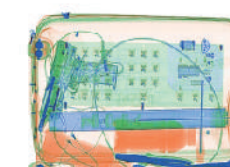- Extremely High Resolution
- Multi-language Support
- Assist to Detect Drug and Explosive Powder

Technical Parameters:

General Specification	
Tunnel Size	505mm(width) ×307mm(height)
Conveyor Speed	0.2m/s
Conveyor Height	730mm
Max. Load	150kg(even distribution)
Wire Resolution	40AWG(0.0787mm of wire > 44 SWG
Spatial Resolution	horizontal Φ1.0mm vertical Φ1.0mm
Penetrable Resolution	32AWG(0.202mm)
Steel Penetration	10mm
Monitor	17-inch color monitor with resolution:1280×1024
X-ray Generator	
Anode Voltage	80Kv
Cooling/Run Cycle	sealedoil cooling/ 100%
Per-inspection Dose	lessthan 1.0μGy
Image Processing System	
Image Enhancement Features	color/black & white image, alterable absorption, super-enhancement, negative mode, pseudo color etc
Selection and Enlargement	variable zoom, 1-32 times enlargement, support continuous enlargement
Image Playback	50 checked images playback
Storage Capacity	at least 100,000 images
Radiation Safety	
Radiation Leakage	less than 1.0μGy /h (5cm away from shell) comply with all domestic and international health and radiation safety standards
Film Safety	in accordance with ASA/ISO1600 film safe standard
System Functions	
TIP(Threat Image Projection), hazardous area alarm,high density alarm, date / time display, baggage counter, user management, system timing, ray beam timing, power on self test, image back-up and search, maintenance and diagnosis, bi-directional scanning	
Optional Functions	
video monitor system/LED(liquid crystal display)/energy-conservation and environmental-protection equipment/electronic weighing system/speaker etc	
Installation Data	
External Dimension	1719mm(length) ×761mm(width) ×1183mm(height)
Weight	500Kg
Operation Voltage	AC220V(-15%~+10%) 50±3Hz
Power Consumption	0.6kVA
Operation Temperature	0℃±3℃～+40℃±2℃
Storage Temperature	-40℃±3℃～+60℃±2℃
Relative Humidity	5%～95%(non-condensing)
Noise Level	56dB(A)

TE-XS5030C X-ray Baggage Scanner

Application: security inspection for carry-on baggage or parcels etc. It is an ideal security inspection system to inspect small size baggage in railway stations, bus stands, government institutions, mall centers, multiplex theaters, hotels etc.

➤ Main Features:

- Compact Design
- High Density Alarm
- Cost Effective
- Extremely High Resolution
- Multi-language Support
- Dual-energy Material Discrimination
- Assist to Detect Drug and Explosive Powder
- GPU-accelerated Image Processing

TE-XS5030C

Technical Parameters:

General Specification	
Tunnel Size	505mm(width) ×307mm(height)
Conveyor Speed	0.2m/s
Conveyor Height	730mm
Max. Load	150kg(even distribution)
Wire Resolution	40AWG（0.0787mm of wire）> 44 SWG
Spatial Resolution	horizontal Φ1.0mm vertical Φ1.0mm
Penetrable Resolution	34AWG (0.160 mm)
Steel Penetration	40mm
Monitor	17-inch color monitor with resolution:1280×1024

X-ray Generator	
Anode Voltage	140-160Kv
Cooling/Run Cycle	sealed oil cooling/ 100%
Per-inspection Dose	less than 1.0μGy

Image Processing System	
Image Enhancement Features	color/black & white image ,organic and inorganic elimination ,alterable absorption, super-enhancement, negative mode, high/low energy penetrability, pseudo color etc
Image Resolution	organics: orange inorganic: blue mixture and light metal: green
Selection and Enlargement	variable zoom, 1-32 times enlargement, support continuous enlargement
Image Playback	50 checked images playback
Storage Capacity	at least 100,000 images

Radiation Safety	
Radiation Leakage	less than 1.0μGy /h (5cm away from shell) comply with all domestic and international health and radiation safety standards
Film Safety	in accordance with ASA/ISO1600 film safe standard

System Functions	
	TIP(Threat Image Projection), hazardous area alarm,high density alarm, date / time display, baggage counter, user management, system timing, ray beam timing, power on self test, image back-up and search, maintenance and diagnosis,bi-directional scanning

Optional Functions	
	video monitor system/LED(liquid crystal display)/energy-conservation and environmental-protection equipment/electronic weighing system/speaker etc

Installation Data	
External Dimension	1719mm(length) ×761mm(width) ×1183mm(height)
Weight	500Kg
Operation Voltage	AC220V-(15%~+10%)50±3Hz
Power Consumption	0.6kVA
Operation Temperature	0℃±3℃～+40℃±2℃
Storage Temperature	-40℃±3℃～+60℃±2℃
Relative Humidity	5%～95%(non-condensing)
Noise Level	56dB(A)

TE-XS5536 X-ray Baggage Scanner

Application: security inspection for carry-on baggage or parcels etc. It is an ideal security inspection system to inspect small size baggage in railway stations, bus stands, government institutions, mall centers,multiplex theaters, hotels etc.

➤ Main Features:

Compact Design

High Density Alarm

Cost Effective

Extremely High Resolution

Multi-language Support

Dual-energy Material Discrimination

Assist to Detect Drug and Explosive Powder

GPU-accelerated Image Processing

TE-XS5536

Technical Parameters:

General Specification	
Tunnel Size	555mm(width) ×365mm(height)
Conveyor Speed	0.2m/s
Conveyor Height	745.5mm
Max. Load	150kg(even distribution)
Wire Resolution	40AWG（0.0787mm of wire）> 44 SWG
Spatial Resolution	horizontal Φ1.0mm vertical Φ1.0mm
Penetrable Resolution	34AWG（0.160mm)
Steel Penetration	40mm
Monitor	17-inch color monitor with resolution:1280×1024
X-ray Generator	
Anode Voltage	140-160Kv
Cooling/Run Cycle	sealed oil cooling/ 100%
Per-inspection Dose	less than 1.0μGy
Image Processing System	
Image Enhancement Features	color/black & white image , organic and inorganic elimination , alterable absorption, super-enhancement, negative mode, high/low energy penetrability, pseudo color etc
Image Resolution	organics: orange inorganic: blue mixture and light metal: green
Selection and Enlargement	variable zoom, 1-32 times enlargement, support continuous enlargement
Image Playback	50 checked images playback
Storage Capacity	at least 100,000 images
Radiation Safety	
Radiation Leakage	less than 1.0μGy /h (5cm away from shell) comply with all domestic and international health and radiation safety standards
Film Safety	in accordance with ASA/ISO1600 film safe standard
System Functions	
TIP(Threat Image Projection), hazardous area alarm, high density alarm, date / time display, baggage counter, user management, system timing, ray beam timing, power on self test, image back-up and search, maintenance and diagnosis, bi-directional scanning	
Optional Functions	
video monitor system/LED(liquid crystal display)/energy-conservation and environmental-protection equipment/electronic weighing system/speaker etc.	
Installation Data	
External Dimension	1813mm(length) ×855mm(width) ×1270mm(height)
Weight	550Kg
Operation Voltage	AC220V(-15%~+10%) 50±3Hz
Power Consumption	0.6kVA
Operation Temperature	0℃±3℃～+40℃±2℃
Storage Temperature	-40℃±3℃～+60℃±2℃
Relative Humidity	5%～95%(non-condensing)
Noise Level	56dB(A)

TE-XS6040 X-ray Baggage Scanner

Application: security inspection for carry-on baggage or parcels etc. It is an ideal security inspection system to inspect medium size baggage in railway stations, bus stands, government institutions, mall centers, multiplex theaters, hotels etc.

> Main Features:

Ergonomically Designed Operating Console Features User-friendly

High Density Alarm

Cost Effective

Extremely High Resolution

Multi-language Support

Dual-energy Material Discrimination

Assist to Detect Drug and Explosive Powder

GPU-accelerated Image Processing

Technical Parameters:

General Specification	
Tunnel Size	605mm(width) ×405mm(height)
Conveyor Speed	0.2m/s
Conveyor Height	645mm
Max. Load	160kg(even distribution)
Wire Resolution	40AWG（0.0787mm of wire）> 44 SWG
Spatial Resolution	horizontal Φ1.0mm vertical Φ1.0mm
Penetrable Resolution	34AWG（0.160mm）
Steel Penetration	40mm
Monitor	17-inch color monitor with resolution:1280×1024

X-ray Generator	
Anode Voltage	140-160Kv
Cooling/Run Cycle	sealed oil cooling/ 100%
Per-inspection Dose	less than 1.0μGy

Image Processing System	
Image Enhancement Features	color/black & white image , organic and inorganic elimination ,alterable absorption, super-enhancement, negative mode, high/low energy penetrability, pseudo color etc
Image Resolution	organics: orange inorganic: blue mixture and light metal: green
Selection and Enlargement	variable zoom, 1-32 times enlargement, support continuous enlargement
Image Playback	50 checked images playback
Storage Capacity	at least 100,000 images

Radiation Safety	
Radiation Leakage	less than 1.0μGy /h (5cm away from shell) comply with all domestic and international health and radiation safety standards
Film Safety	in accordance with ASA/ISO1600 film safe standard

System Functions	
TIP(Threat Image Projection), hazardous area alarm, high density alarm, date / time display, baggage counter, user management, system timing, ray beam timing, power on self test, image back-up and search, maintenance and diagnosis, bi-directional scanning	

Optional Functions	
video monitor system/LED(liquid crystal display)/energy-conservation and environmental-protection equipment/electronic weighing system/speaker etc.	

Installation Data	
External Dimension	1915mm(length) ×865mm(width) ×1210mm(height)
Operation Console Size	1100mm(length) ×704mm(width) ×1195mm(height)
Weight	600Kg
Operation Voltage	AC220V(-15%~+10%) 50±3Hz
Power Consumption	0.6kVA
Operation Temperature	0℃±3℃～+40℃±2℃
Storage Temperature	-40℃±3℃～+60℃±2℃
Relative Humidity	5%～95%(non-condensing)
Noise Level	56dB(A)

TE-XS6550 X-ray Baggage Scanner

Application: security inspection for carry-on baggage or parcels etc. It is an ideal security inspection system to inspect medium size baggage in railway stations, bus stands, government institutions, mall centers, multiplex theaters, hotels etc.

➤ Main Features:

Ergonomically Designed Operating Console Features User-friendly

High Density Alarm

Cost Effective

Extremely High Resolution

Multi-language Support

Dual-energy Material Discrimination

Assist to Detect Drug and Explosive Powder

GPU-accelerated Image Processing

Technical Parameters:

General Specification	
Tunnel Size	655mm(width) ×505mm(height)
Conveyor Speed	0.2m/s
Conveyor Height	645mm
Max. Load	160kg(even distribution)
Wire Resolution	40AWG（0.0787mm of wire）>　44 SWG
Spatial Resolution	horizontal Φ1.0mm　　vertical Φ1.0mm
Penetrable Resolution	34AWG（0.160mm)
Steel Penetration	40mm
Monitor	17-inch color monitor with resolution:1280×1024

X-ray Generator	
Anode Voltage	140-160Kv
Cooling/Run Cycle	sealed oil cooling/ 100%
Per-inspection Dose	less than 1.0μGy

Image Processing System	
Image Enhancement Features	color/black & white image , organic and inorganic elimination ,alterable absorption, super-enhancement, negative mode, high/low energy penetrability, pseudo color etc
Image Resolution	organics: orange inorganic: blue mixture and light metal: green
Selection and Enlargement	variable zoom, 1-32 times enlargement, support continuous enlargement
Image Playback	50 checked images playback
Storage Capacity	at least 100,000 images

Radiation Safety	
Radiation Leakage	less than 1.0μGy /h (5cm away from shell) comply with all domestic and international health and radiation safety standards
Film Safety	in accordance with ASA/ISO1600 film safe standard

System Functions	
TIP(Threat Image Projection), hazardous area alarm, high density alarm, date / time display, baggage counter, user management, system timing, ray beam timing, power on self test, image back-up and search, maintenance and diagnosis, bi-directional scanning	

Optional Functions	
video monitor system/LED(liquid crystal display)/energy-conservation and environmental-protection equipment/electronic weighing system/speaker etc.	

Installation Data	
External Dimension	2114mm(length) ×955mm(width) ×1310mm(height)
Operation Console Size	1100mm(length) ×704mm(width) ×1195mm(height)
Weight	600Kg
Operation Voltage	AC220V(-15%~+10%)　50±3Hz
Power Consumption	0.6kVA
Operation Temperature	0℃±3℃～+40℃±2℃
Storage Temperature	-40℃±3℃～+60℃±2℃
Relative Humidity	5%～95%(non-condensing)
Noise Level	56dB(A)

TE-XS6550DB X-ray Baggage Scanner

Application: security inspection for carry-on baggage or parcels etc. It is an ideal security inspection system to inspect medium size baggage in railway stations, bus stands, government institutions, mall centers, multiplex theaters, hotels etc.

➤ Main Features:

- Duel View Design
- Compact Design
- High Density Alarm
- Cost Effective
- Extremely High Resolution
- Multi-language Support
- Dual-energy Material Discrimination
- Assist to Detect Drug and Explosive Powder
- GPU-accelerated Image Processing

Technical Parameters:

General Specification

Tunnel Size	655mm(width) ×505mm(height)
Conveyor Speed	0.2m/s
Conveyor Height	690mm
Max. Load	160kg(even distribution)
Wire Resolution	40AWG（0.0787mm of wire）> 44 SWG
Spatial Resolution	horizontal Φ1.0mm vertical Φ1.0mm
Penetrable Resolution	34AWG（0.160mm)
Steel Penetration	40mm
Monitor	17-inch color monitor with resolution:1280×1024

X-ray Generator

Anode Voltage	140-160Kv
Cooling/Run Cycle	sealed oil cooling/ 100%
X-Ray Generator Number	2
Radiation Modality	bottom/side radiation
Per-inspection Dose	less than 5.0µGy

Image Processing System

Image Enhancement Features	color/black & white image , organic and inorganic elimination ,alterable absorption, super-enhancement, negative mode, high/low energy penetrability, pseudo color etc
Image Resolution	organics: orange inorganic: blue mixture and light metal: green
Selection and Enlargement	variable zoom, 1-32 times enlargement, support continuous enlargement
Image Playback	50 checked images playback
Storage Capacity	at least 100,000 images

Radiation Safety

Radiation Leakage	less than 1.0µGy /h (5cm away from shell) comply with all domestic and international health and radiation safety standards
Film Safety	in accordance with ASA/ISO1600 film safe standard

System Functions

TIP(Threat Image Projection), hazardous area alarm, high density alarm, date / time display, baggage counter, user management, system timing, ray beam timing, power on self test, image back-up and search, maintenance and diagnosis, bi-directional scanning

Optional Functions

video monitor system/LED(liquid crystal display)/energy-conservation and environmental-protection equipment/electronic weighing system/speaker etc.

Installation Data

External Dimension	2448mm(length) ×1355mm(width) ×1362mm(height)
Weight	820Kg
Operation Voltage	AC220V(-15%~+10%) 50±3Hz
Power Consumption	0.9kVA
Operation Temperature	0℃±3℃～+40℃±2℃
Storage Temperature	-40℃±3℃～+60℃±2℃
Relative Humidity	5%～95%(non-condensing)
Noise Level	65dB(A)