

## Intelligent X-ray Inspection Systems

### ISD-NFX1625D

#### Overview

The X-ray intelligent foreign matter detection system utilizes advanced AI technology, the AI-XSP imaging algorithm, to achieve high precision and adaptability in foreign object and defect detection, providing effective technical support for improving the quality and efficiency of production.

- Suitable for upright conveying of bottled, canned, and boxed products. Equipped with high-power dual light sources, it supports detection of small foreign objects such as metal, glass, stone, bone, and high-density rubber etc.
- Based on AI defect recognition algorithm, the detection area achieves true 360° detection without blind spots.
- It simultaneously supports various defect detection such as liquid filling height, bottle inversion, damage, and abnormal bottle caps, with high accuracy.
- Open calibration tool allows for expanding detection applications, enabling users to easily have their own algorithms.
- The conveyor is stable, flexible, and the channel size can be customized accordingly, making it easy to be integrated.

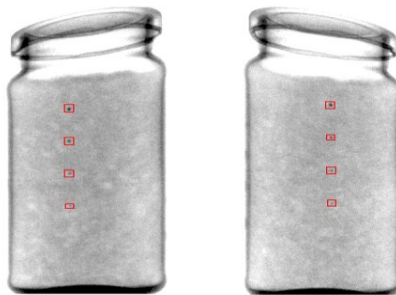
#### Product Appearance



## Features

### 1. Incredible Inspection Result

It efficiently identifies malignant impurities such as metal, glass, and stone contained in food and pharmaceutical products. Equipped with ultra-high-resolution sensors and AI modeling techniques, it possesses strong adaptability and effectively eliminates background interference, leaving no room for even the smallest foreign objects to escape. The equipment also enables parallel detection of product defects, making it versatile for multiple applications and suitable for various scenarios in terms of cost-effectiveness.



### 2. Full Range Detection

Paired with a high-power dual X-ray source, creatively utilizes AI technology. It enables detection without dividing or shielding the detection area, achieving a truly comprehensive inspection with no blind spots.

### 3. Self-adaptive Parameter

The X-ray intelligent defect detection system excels in quality. It not only features easy installation and long-lasting durability but also offers user-friendly software operation with guided configuration. It is simple to use and can be quickly mastered within minutes. Additionally, it supports parameter adaptation, making it suitable for various complex production environments.

## Parameters

	Item	Parameter	Remark
<b>Structure</b>	Tunnel Width	160mm	Customizable
	Tunnel Height	250mm	Customizable
	Device Dimensions	2150(H)*4200(L)*1500(W)mm	Indicator height included
	Net Weight	1000kg	
	Enclosure Material	Stainless (SUS304)	
<b>Conveyor</b>	Material	Food-grade Polypropylene	
	Conveyor Width	150mm	
	Conveyor Height	800±50mm	Customizable
	Conveyor Speed	30~90m/min	
	Max Load	15kg	
<b>X-Ray Generator</b>	Voltage	60~120kV	Voltage adjustable, Power≤480W
	Current	200-7500μA	
	Power Consumption	480W	
<b>Inspection Sensitivity</b>	Stainless Ball (Φ)	0.5mm	
	Stainless Wire	0.3*2mm	
	Glass Ball (Φ)	1.5mm	
	Ceramic Ball (Φ)	1.5mm	
	Algorithm	Foreign Object Detection / Defect Detection	
<b>Others</b>	Protection Level	Conveyor: IP65	
		Other Part: IP54	
	Testable Item	Bottle, Can, Box	
	Rejection Method	NG; Automatic Rejection	Compatible with multiple rejecting system
	Alarm Method	Visual and Audible Alarm	
	Display	21 inch, Touch Screen, 1920*1080	
	Cooling Method	Industrial AC	Thermostat Control / Temp. Adjustable
	Protection Method	Protective Cover/Shield	
	X-Ray Leakage Control	<1μSv/h	
	Power Supply	AC220V, 50/60Hz	
	Working Temperature	-10~40°C	
	Working Humidity	30~90%RH, Non Condensation	
	Included interfaces	Ethernet, USB; supports MES interfacing	

Dimension

