

With advanced AI technology, premium international components, and comprehensive safety design



X-RAY INTELLIGENT **FOREIGN OBJECT INSPECTION SYSTEM**

PX-2030

Advanced AI-Powered Inspection for
Bottles, Cans & Boxes

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AI-XSP intelligent imaging algorithm

PX-2030

The PX-2030 X-ray Intelligent Foreign Object Detection System is specially designed for upright products such as bottles, cans, and boxes. It combines advanced artificial intelligence with high-resolution imaging to detect metal, glass, ceramic, stone, bone, and other high-density foreign objects.

The system ensures:

- High detection sensitivity
- No blind spots
- Stable performance
- Easy operation
- Compliance with radiation safety standards

Intelligent Technology & AI Advantages

- Adaptive background elimination
- Automatic foreign object modeling
- Defect detection and analysis
- Reduced false rejection rate
- Enhanced detection accuracy



About PX-2030

Basic Machine Information

Item	Specification
Model	PX-2030
Application	Bottles / Cans / Boxes
Material	Full Stainless Steel SUS304
Machine Size	3500 × 1270 × 1672 mm
Machine Weight	380 kg
Radiation Safety	< 1μSv/h
Protection Level	IP66 (Transmission), IP54 (Others)
Cooling System	Industrial Air Conditioner
Display	21.5" Touch Screen
Voltage	AC110V / 220V / 230V, 50/60Hz

Key Technology Features

- 1. Single-View Detection Technology**
Optimized detection design ensures clear and precise scanning of upright products.
- 2. No Blind Spot Detection**
High-power dual-ray source ensures full coverage detection without partitioning or shielding areas.
- 3. Parallel Defect Detection**
In addition to foreign body inspection, the system supports:
 - Product defect detection
 - Density variation detection
 - Structural abnormality inspection
- 4. Automatic Parameter Adaptation**
 - No complex manual debugging required
 - Guided software configuration
 - Fast setup and operation within minutes

Protection Level

Area	Protection Level
Transmission Part	IP66
Other Areas	IP54



Inspection Sensitivity

Contaminant Type	Detection Sensitivity
Fe / SUS Metal Ball	Ø 0.4 mm
Metal Wire	0.4 × 2 mm
Glass Ball	Ø 1.0 mm
Ceramic Ball	Ø 1.0 mm

Technical Specifications

Description	Specification
Tunnel Width	200 mm
Tunnel Height	300 mm
Conveyor Height	800 ± 50 mm
Belt Width	250 mm
Belt Material	Food Grade PU
Conveyor Speed	30–50 m/min
Max Loading Weight	10 kg
X-ray Tube Voltage	60–120 kV (Adjustable)
X-ray Tube Current	200–7500 µA
X-ray Power	350 W
Total Power Consumption	< 480 W
Temperature	-10°C ~ 40°C
Working Humidity	30%–90% RH
Interfaces	Ethernet, USB