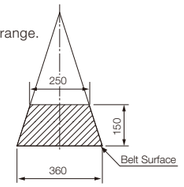
Technical specification

Product size (Unit: mm)

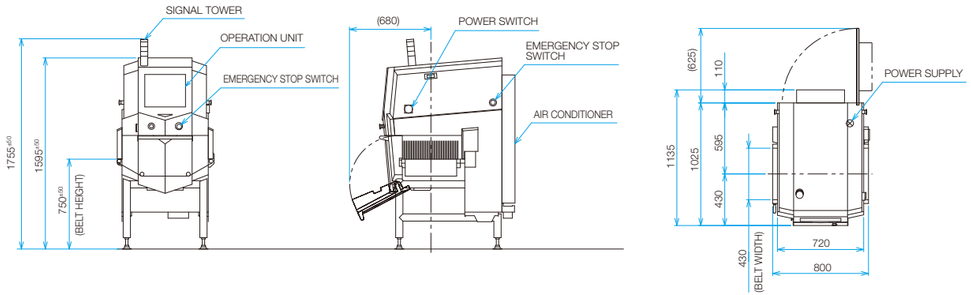
Height	Width	Height	Width
0	360	80	301
10	352	90	294
20	345	100	286
30	338	110	279
40	330	120	272
50	323	130	264
60	316	140	257
70	308	150	250

Inspection Area

The figures below show the permissible inspection range.
Portions of the product which
are not within the shaded area are not irradiated.



Dimensions (Unit: mm)



Specifications

		IX-PD-36A2
Performance		
Inspection area (MAX)		W360mm*1 H150mm
X-ray	Maximum output	300W
	Tube voltage	25-75kV
	Tube current	1-8mA
Belt speed *2		10-60m/min
Product length*3		20-450mm
Loaded weight *4		5kg
Protective curtain		Tungsten curtain (Detachable)
Cooling unit		1.0kw Air conditioner originally installed
HMI		17" color LCD touch panel
Number of presets		100 items
Specification		
Power supply		1-phase AC200V～240V 1400W
Material		Stainless steel
Ingress Protection		IP66*5 (This rating is applied to only Conveyor chamber)
Operating Environment	Temperature	0-35℃
	Humidity	30-85%*6 (without dew condensation)
Weight		Approx. 340kg

*1) Conveyor width *2) 1m/min interval setting is available *3) This dimension should be followed under Snap-Mode only. Do not apply under Bulk-Mode
*4) On a whole conveyor *5) Based on internal test results *6) In the case of 25～35℃, 30～55%RH (without dew condensation)

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ISHIDA

IX-PD-36A2

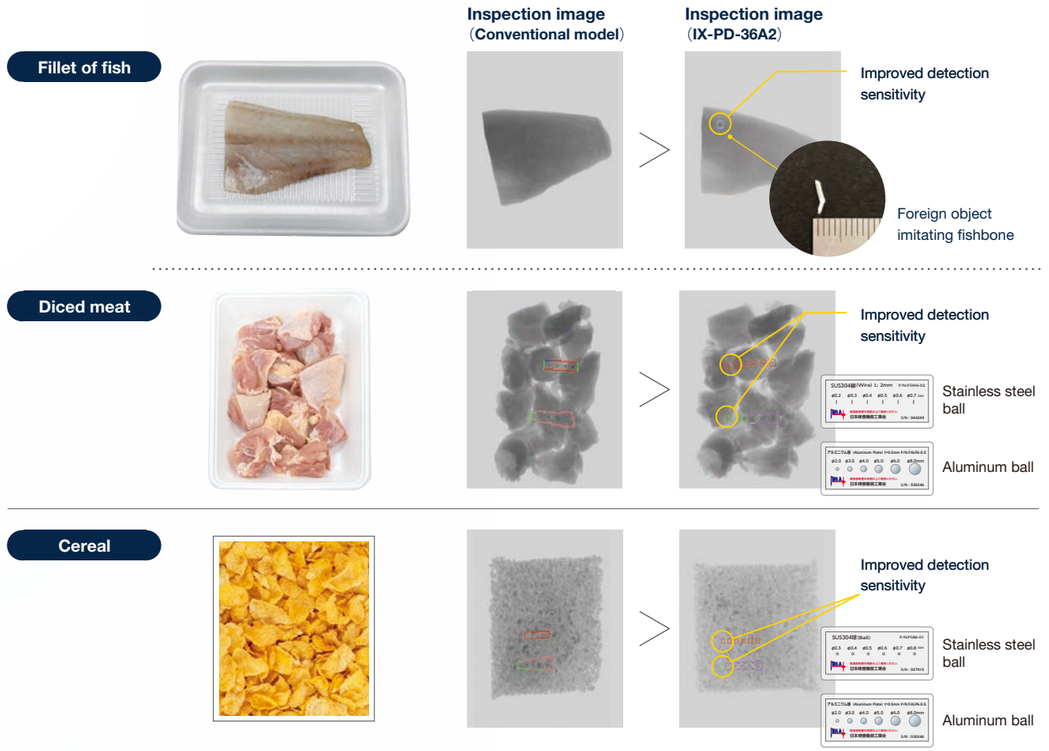
Photon Counting Dual Energy X-ray Machine

Realized our best sensitivity ever by employing new sensor and image processing technology

- **Detects both low-density and minute foreign object with high accuracy**
  Improved detection sensitivity against not only low-density foreign object such as bones of meat and fish but also minute foreign object such as stainless steel wires. It contributes to minimizing an oversight by visual inspection and alleviating a burden of manual effort.
- **Keeps high detection performance even if overlapping and uneven profile product**
  Overlapping and uneven profile product an conventional model was hard to inspect can be inspected as well.
- **Reduced erroneous detection**
  New image processing technology recognizes the difference between food and foreign body with high accuracy. It helps reduce the rate of an erroneous detection.

Detects both low-density and minute foreign object with high accuracy

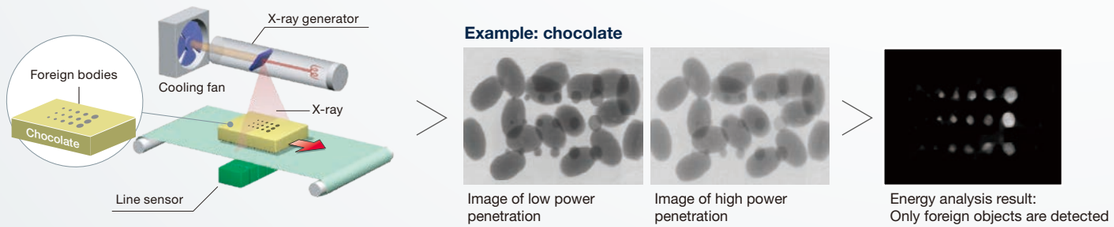
Comparison of detection sensitivity with conventional model



Energy analysis for highly sensitive detection

Image processing compares two images with different characteristics and detects foreign objects by recognizing the differences of physical property.

Clearly detects foreign objects and even bones trapped in overlapping products which under normal circumstances are difficult to detect as foreign objects.



Product and foreign object separated according to physical property

1 H Hydrogen	2 He Helium	3 Li Lithium	4 Be Beryllium	5 B Boron	6 C Carbon	7 N Nitrogen	8 O Oxygen	9 F Florine	10 Ne Neon	11 Na Sodium	12 Mg Magnesium	13 Al Aluminum	14 Si Silicon	15 P Phosphorus	16 S Sulfur	17 Cl Chlorine	18 Ar Argon	19 K Kalium	20 Ca Calcium

Elements which are often included in food (hydrogen, carbon, nitrogen, oxygen)

Elements which are often included in foreign objects (stones & glass = silicon, bone = calcium, etc.)

Production Monitoring and Data Management System i-FORT

Linking with i-FORT enables you to monitor the operating status of each IX model and record the inspection data, even from a remote place.

Inspection result can be saved in the form of electronic data. This helps you efficiently record and manage the data.
Products distributed to the market can be traced via identification number for each product and you can acquire respective inspection images.