

# XR75e series X-ray Inspection System



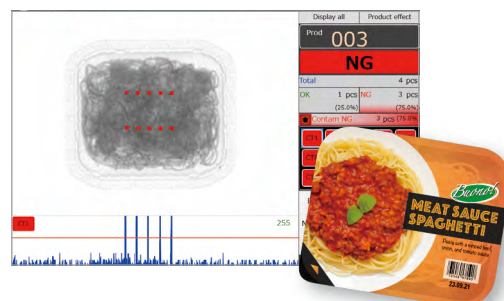
**XR75e**

# XR75e: Where Value Meets Performance

Experience exceptional foreign body detection, a hallmark of the trusted Anritsu XR75 series. The XR75e redefines affordability in X-ray inspection equipment, ensuring product safety, reducing contamination risks, and enhancing your quality control process.

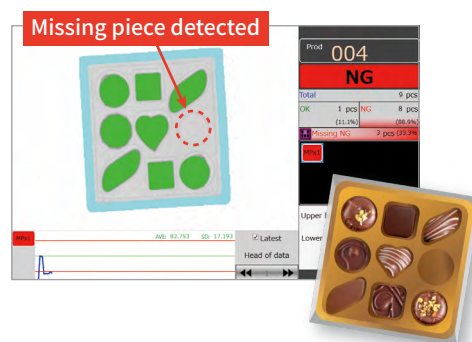
## Proven XR75 Detection Algorithms

XR75e is equipped with the well-established detection algorithms of XR75 series, which have been developed and refined over 20 years of experience and expertise. These algorithms provide unrivaled detection sensitivity for a wide range of foreign substances, including high-density materials like metals, as well as low-density materials such as stones and glass.



## Product Integrity Check Functions

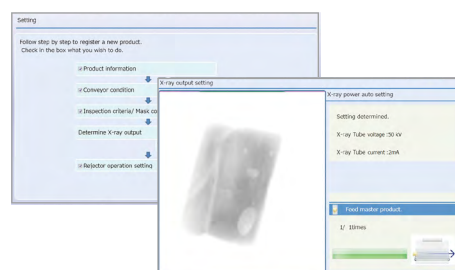
XR75e also supports a variety of other quality inspection capabilities, including missing part detection, shape inspection, and virtual weight inspection. These inspection functions can be performed simultaneously performed alongside foreign body inspection.



## Excellent Usability

### Abundant guidance functions

XR75e is equipped with abundant guidance functions that make it easy for users to operate, even without specialized knowledge. When registering a new product or troubleshooting, users can simply follow the on-screen guidance to take the appropriate action.



### 15-inch touch panel

The XR75e features a large 15-inch touch panel that provides excellent visibility and usability.



### Easy saving of X-ray images and production data

The XR75e comes standard with Ethernet and USB memory interfaces, making it easy to save X-ray images and statistical data. By integrating QUICCA software (optional), you can grasp production status in real time and easily extract the information you need from the database.



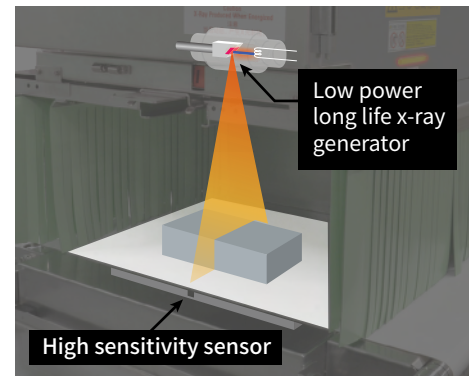
## Easy Maintenance

The removal and replacement of the conveyor belt and rollers can be easily done without the need for any tools. If waterproofing and dustproofing are required for specific environments, optional solutions are available.



## Long-life X-ray Sensors and Generators

XR75e incorporates highly durable sensors and generators, and this significantly contributes to reducing the Total Cost of Ownership (TCO).



## Examples of Product Applications

Compatible with a wide range of packaged products.

### Frozen Dumpling



### Ready Meal (Pasta)



### Smoked Salmon



### Pet Foods



### Mixed Nuts



### Butter



## Safety in design

### XR75e

Anritsu believes customer safety is of utmost importance.

#### Anritsu safety mechanism

##### Emergency stop switch

Cuts power to x-ray and drive circuits, stops the conveyor and x-ray radiation.

##### X-ray ON/OFF key

Turning the key to OFF stops x-ray radiation completely.

##### X-ray shield cover open/close sensor

Opening the cover stops x-ray radiation.

##### X-ray shield cover

Opened/Closed using x-ray Irradiation ON/OFF Key.  
Opening the cover stops x-ray radiation due to the x-ray Shield Cover Open/Close Sensor.



##### X-ray irradiation display

The lamp is lit during x-ray radiation.

##### Leakage prevention curtain

Prevents x-ray leakage.

##### Hand insertion sensor

Interrupting the sensor for a certain period of time stops x-ray radiation.

#### Safety management

X-ray inspection system has been designed to fully satisfy the safe operation. However, to ensure even higher safety, use the safety procedures outlined below.

##### ① Periodic measurement and recording of x-ray leakage data

##### ③ Additional safety measures

Covers may need to be mounted on upstream and downstream conveyors instead of the shield curtains, depending on the shape, weight, and package of products.

##### ② Management of operator working hours

##### ④ No disassembly or modification

NEVER modify or disassemble the main unit, covers, x-ray leakage prevention curtains, safety covers, safety interlocks, etc., otherwise the x-ray leak-proof design may no longer be functional.

#### X-ray radiation safety

##### Safety of inspected products

According to the World Health Organization (WHO), "irradiation of any food commodity up to an overall average dose of 10 kGy presents no toxicological hazard and introduces no special nutritional or microbiological problems." \*  
The maximum dose of x-ray radiation to the products moving through Anritsu x-ray inspection systems is 2.0 mGy, which is 5 million times lower than the WHO threshold.

\*Wholesomeness of Irradiated Food: Report of a Joint FAO/IAEA/WHO Expert Committee, 1980

##### Safety of humans

The average U.S. resident receives a total radiation dose of 6.2 mSv/year (620 mRem). About one third (2.4 mSv/240 mRem) of that annual radiation derives from natural sources like the sun and soil. The rest comes from manmade sources like medical procedures (a typical chest x-ray generates about 0.1 mSv/10mRem) or air travel (a round trip flight from New York to Tokyo is about 0.2 mSv/20 mRem).

Throughout the world, most governments consider 20–50 mSv/year (2,000–5,000 mRem) to be safe for occupational workers.

Anritsu cabinet x-rays are engineered to meet some of the strictest emission standards in the world. A typical Anritsu x-ray solution is designed for maximum dosage of 2.0 mSv/year (200 mRem). This is based on the improbable scenario of a worker continually being 2 inches (5.08 cm) from the x-ray machine 2,000 hours/year (40 hours/week × 50 weeks). For typical work environments, the actual radiation dose from the cabinet x-ray to the worker is negligible.

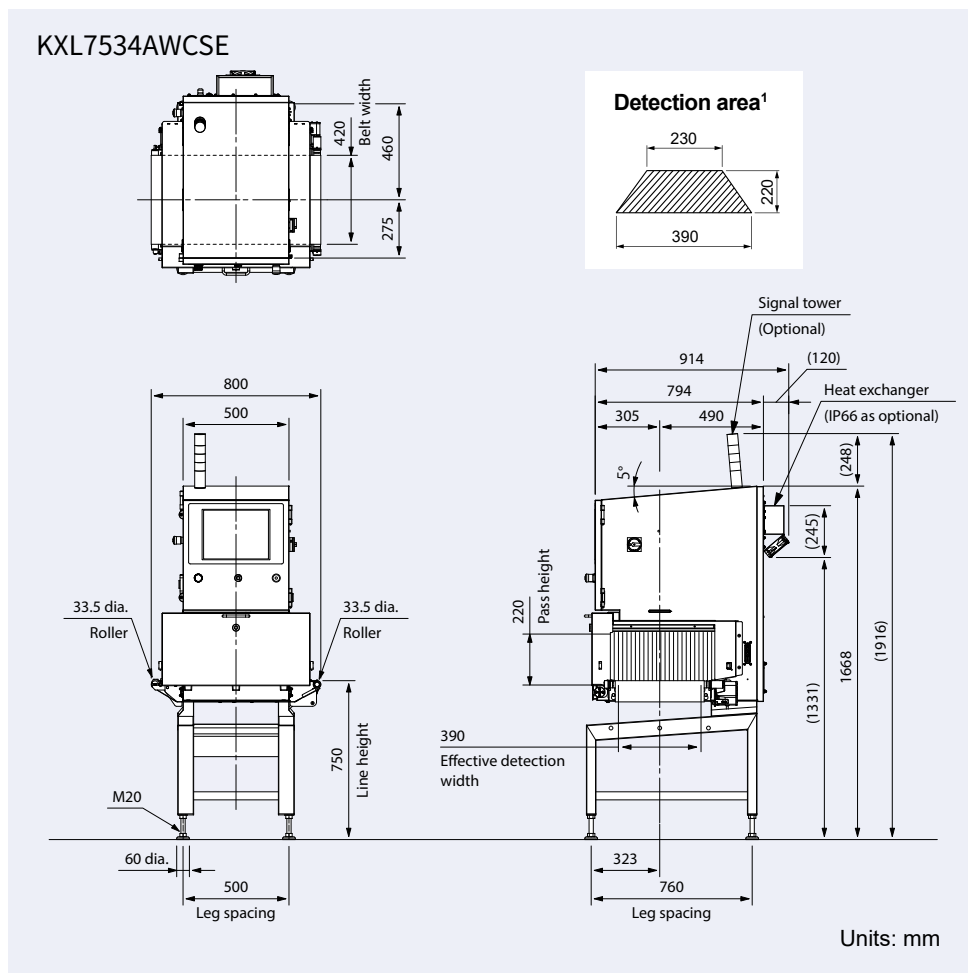
*Note: Please follow the local laws and regulations regarding the installation and use of the x-ray inspection systems.*

## Major specifications

### XR75e

### For Packaged Products

### External Dimensions



1: The maximum product length is 300 mm.

## Specifications

|                                                               |                                                                                        |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Model                                                         | KXL7534AWCSE                                                                           |
| X-ray output                                                  | Tube voltage 30 to 60 kV, tube current 0.4 to 3.3 mA, output 100 W                     |
| Safety                                                        | X-ray leakage maximum 1.0 µSv/h or less, prevention of x-ray leakage by safety devices |
| Display                                                       | 15-inch color TFT LCD                                                                  |
| Operation method                                              | Touch panel (with touch buzzer)                                                        |
| Detection area <sup>1, 2</sup>                                | Maximum width 390 mm, maximum height 220 mm                                            |
| Belt width                                                    | 420 mm                                                                                 |
| Preset memory                                                 | 200                                                                                    |
| Belt speed <sup>3</sup> / Maximum product weight <sup>4</sup> | 10 to 60 m/min, maximum 5 kg                                                           |
| Power requirements <sup>5</sup>                               | 100 Vac to 240 Vac, single phase, 47 Hz to 63 Hz, 535 VA or less (standard)            |
| Mass <sup>6</sup>                                             | 240 kg                                                                                 |
| Environmental conditions                                      | Temperature: 0°C to 35°C, Relative humidity: 30% to 85%, non-condensing                |
| Protection class                                              | Conveyor: IP66<br>Other parts: IP40 (IP66 as optional)                                 |
| Exterior                                                      | Stainless steel (SUS304)                                                               |

1: The product size should fall below the detection area.

2: The maximum product length is 300 mm.

3: Variable depending on Product No.

4: Sum total of product weight on the conveyor.

5: Allowable power fluctuation range is ±10%.

6: Mass without option.



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- Some products shown in this catalog may not be available in your country or region. Contact our sales representatives for details.
- To ensure proper operation, read the Operation Manual before using the machine.
- In addition to daily inspection, a full maintenance inspection should be completed annually.

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