/Inritsu

X-ray Inspection System

XR75

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Anriissu X-ray Inspection System

Discover What You've Been Missing... DETECTION PERFECTION



Introducing the next generation





of X-ray inspection technology

Introducing Anritsu's Advanced Long Life Technology



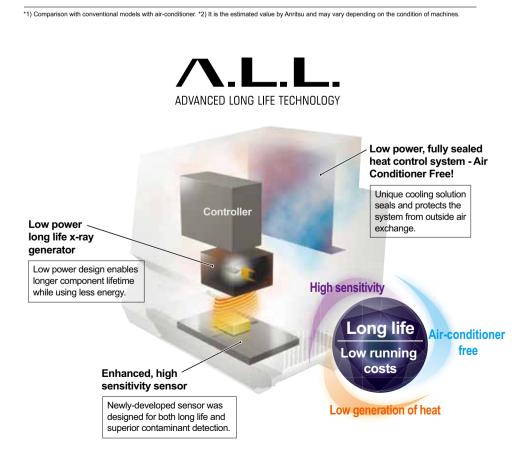
Anritsu's new x-ray technology exceeds the needs of today's demanding food processing industry. In addition to contaminant detection the XR75 inspection system can identify product shape defects and packaging integrity.

Superior image processing allows the Processor to see what they may have been missing in previous x-ray system designs.

The highly engineered high sensitivity x-ray generator and sensor provide outstanding sensitivity at lower energy levels. The result is superior performance, extended life of cycles and reduced true cost of ownership.

The low output x-ray generator reduces heat generation, eliminating the need for cooling system, resulting in a 30% reduction in power consumption.

The Anritsu XR75 x-ray inspection system can reduce the lifetime operating cost by over 20%, as compared to other systems, making x-ray inspection more affordable to purchase, own and operate.





Simple step-by-step product setup

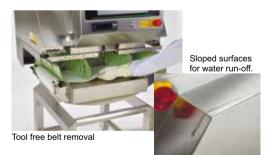
Product Registration Navigation simplifies parameter setting procedures with step-by-step illustrated instructions.



V Simple maintenance

[Easy parts removal] No tools are required for removing/attaching the conveyor belts and rollers including the front cover and x-ray leakage prevention curtains.

[Easy-to-clean design] The system's angled surfaces prevent water from accumulating after system cleaning.



Simple information management

X-ray images and inspection logs can be saved to the USB memory for HACCP compliance. All Anritsu systems can be connected, via Ethernet, to QuiCCA. QuiCCA provides line status information, centralized reporting and data storage.



Overall quality management and control system - QUICCA

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Pasta	Cookio	Chapalata	Condy	Instant boyorage

XR75 delivers industry leading detection for all products.



HD imaging provides the best-in-industry detection.

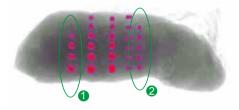
XR75 provides accurate and repeatable detection of metals, wire, glass, stone, calcified bones and other dense contaminants. ALL technology was developed to provide high detection sensitivity and flexibility within all products and packaging types.



[Easy to adjust sensitivity]

Point

Detection levels are visually shown on the main screen to enhance usability. Quick sensitivity adjustments are possible (based on operator level).



Asparagus

X-ray image of test pieces in 500g tenderloin. Accurate detection of small Nylon **1** and SUS **2** spheres is now possible.



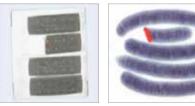
Signal processing advancements allow detection of smaller contaminants.

Go Beyond Contaminant Detection

XR75 provides not only contaminant detection but also product verfication simultaneously. Products can be inspected for missing product, virtual weight, count, package check, void check, etc.

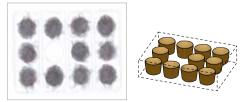
[Shape Detection] The shape, area and mass are analyzed from x-ray images to find irregularities including breaks and chips. Missing fillings can also be spotted.

[Missing Product Detection] Inspection for missing products are available for those products in which the content is indicated by the number, and the mass of each piece in a package varies per piece.



Chipped biscuit

Cut sausage



[Example of a package containing 12 cupcakes with $20 \pm 2 \text{ g each}$] The weight of 11 pieces with 22 g each totals 242 g, which satisfies weight requirement but the count is short.

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. For unpackaged or bulk products, the standard lead impregnated curtains are replaced with SUS covers - preventing direct food contact with the curtains.

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

O 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.

Safety of inspected products

WHO concluded in 1980 that the "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."

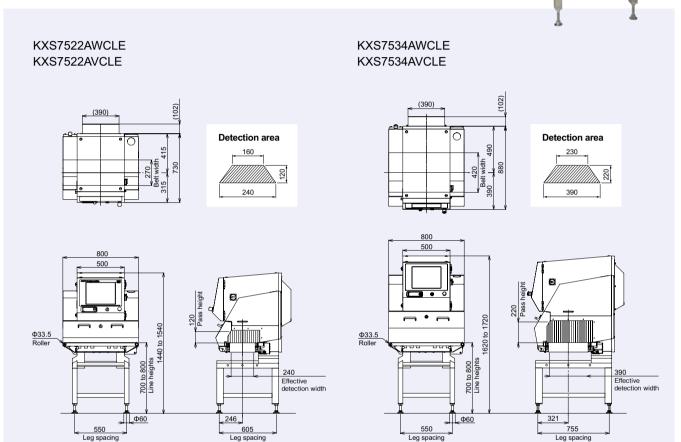
The maximum dose of x-ray irradiation to the products to be inspected by our x-ray inspection systems is 0.002 Gy, which is much lower than the value described above. Even if a product stops inside, the x-ray dose is always kept to 0.1 Gy or less.

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

Major specifications

XR75 For Packaged Products

External Dimensions



Dimensions in brackets are AVCLE type with waterproof on the entire surface. Units: mm

Specifications

Model	KXS7522AWCLE	KXS7522AVCLE	KXS7534AWCLE	KXS7534AVCLE		
X-ray output	Tube voltage 30 to 80 kV, tube current 0.4 to 3.3 mA, output 12 to 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 buzze	er)				
Detection area 1, 2	Maximum width 240 mm, maximum height 120 mm		Maximum width 390 mm	Maximum width 390 mm, maximum height 220 mm		
Belt width	270 mm		420 mm			
Preset memory	200					
Belt speed ³ /	10 to 60 m/min, maximum 5 kg		10 to 60 m/min, maximur	10 to 60 m/min, maximum 5 kg		
Maximum product weight 4	60 to 90 m/min, maximum 2 kg	g	—			
	10 to 40 m/min, maximum 10 kg (optional)		10 to 40 m/min, maximum 10 kg (optional)			
Power requirements ⁵	100 to 240 AC, single phase, 50/60 Hz, 700 VA or less (standard)					
Mass ⁶	250 kg	255 kg	305 kg	310 kg		
Environmental conditions 7,8	Temperature: 0 to 35°C, Relative humidity: 30 to 85%, non-condensing					
Protection class	Conveyor: IP66	Entire surface conforms	Conveyor: IP66	Entire surface conforms		
	Other parts: IP40	to IP66	Other parts: IP40	to IP66		
Exterior	Stainless steel (SUS304)	·				
: The product size should fall below the dete	ection area.	6 : Mass without option				

7 : For KXS7522AWCLE and KXS7522AVCLE, belt speed and maximum product weight are restricted at the temperature between

1: The product size should fail below the detection area.
 2: The entrance and exit may require covers depending on the length of a product.
 3: Variable depending on Product No.
 4: Sum total of product weight on the conveyor.
 5: Allowable power fluctuation range is ± 10%.

30°C and 35°C. 8 : The temperature between 0°C and 40°C when an optional air conditioner is installed. (AWCLE only)

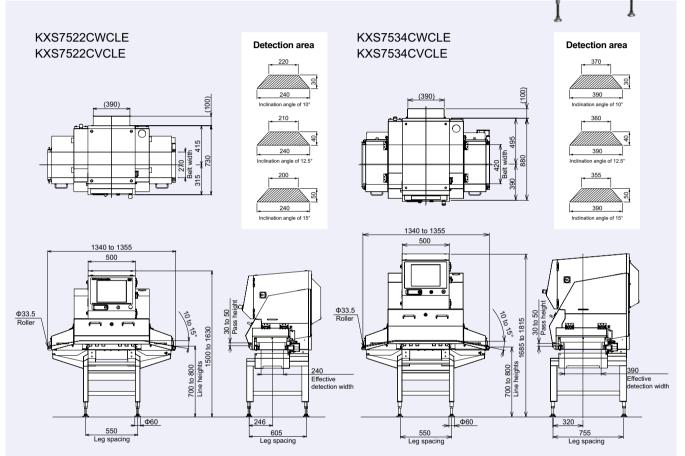
Major specifications

XR75

For Lightweight Products and Those in Small Bags



External Dimensions



Dimensions in brackets are CVCLE type with waterproof on the entire surface. Units: mm

Specifications

Model	KXS7522CWCLE	KXS7522CVCLE	KXS7534CWCLE	KXS7534CVCLE	
X-ray output	Tube voltage 25 to 60 kV, tube current 0.4 to 3.3 mA, output 10 to 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 1, 2	Maximum width 240 mm, maximum height 50 mm		Maximum width 390 mm, maximum height 50 mm		
Belt width	270 mm		420 mm		
Preset memory	200				
Belt speed ³ / Maximum product weight ⁴	10 to 50 m/min, maximum 5 kg				
Power requirements ⁵	100 to 240 AC, single phase, 50/60 Hz, 700 VA or less (standard)				
Mass ⁶	280 kg	285 kg	340 kg	345 kg	
Environmental conditions 7,8	Temperature: 0 to 35°C, Relative humidity: 30 to 85%, non-condensing				
Protection class	Conveyor: IP66 Other parts: IP40	Entire surface conforms to IP66	Conveyor: IP66 Other parts: IP40	Entire surface conforms to IP66	
Exterior	Stainless steel (SUS304)				
1 : The product size should fall below the dete	action area	6 : Mass without option			

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 The entrance and exit may require covers depending on the length of a product.
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6 : Mass without option
 7 : For KXS7522CWCLE and KXS7522CVCLE, belt speed and maximum product weight are restricted at the temperature between
 30°C and 35°C.
 8 : The temperature between 0°C and 40°C when an optional air conditioner is installed. (CWCLE only)

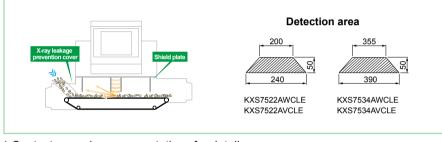
Major specifications

XR75 For Bulk Flow of Unpacked Fresh Food

Applicable models: KXS7522AWCLE, KXS7522AVCLE, KXS7534AWCLE, KXS7534AVCLE

This option is for those unpackaged products that require the inspection without the leakage prevention curtain.

- Flow direction can be changed from left to right and vice versa.
- A separate modification is required for the change of flow direction after the installation.



* Contact our sales representatives for details.

Model Selection List	Model	Detection area (Units:mm)		
	KXS7522AWCLE KXS7522AVCLE	$\frac{W2 (160)}{W_p}$ $\frac{W_p}{W_1 (240)}$ Effective detection width = 240 - $\frac{80 \times H_p}{120}$ Effective detection = $\frac{120 \times (240 - W_p)}{80}$	7	
	KXS7522CWCLE KXS7522CVCLE	$\begin{array}{c c} W2 (200) \\ \hline Wp \\ \hline W1 (240) \\ \hline W1 (240) \\ \hline \end{array} \\ \end{array} \\ \begin{array}{c c} W2 (200) \\ \hline \\ $	7	
	KXS7534AWCLE KXS7534AVCLE	$\frac{W2 (230)}{W_p}$ $H_p \xrightarrow{0} T$ Effective detection width = 390 - $\frac{160 \times H_p}{220}$ Effective detection = $\frac{220 \times (390 - W_p)}{160}$	8	
	KXS7534CWCLE KXS7534CVCLE	$\begin{array}{c c} W_2(355) \\ \hline \\ \hline \\ W_1(390) \\ \hline \\ W_1(390) \\ \hline \\ W_1(390) \\ \hline \\ \end{array} \\ \end{array} \\ \begin{array}{c c} W_2(355) \\ H_p \\ H(50) \\ \hline \\ H_p \\ H(50) \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	8	
	Note: Any one of the pass heights ca	n be selected.		



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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, an annual maintenance check should be carried out.

CAT. NO. K3232-F-1

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