



X-ray Inspection  
IX-GA Series



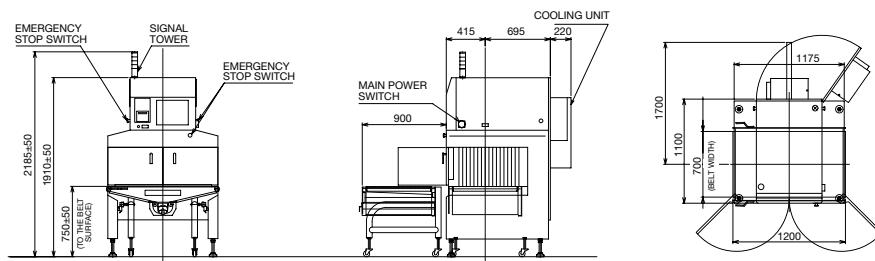
# IX-GA-65100

All the security of X-ray  
inspection for larger items

With an inspection chamber height option of 270mm and an X-ray tube voltage of up to 100 KV, the IX-GA-65100 can inspect, for example, a 25kg block of butter, a 65cm-wide case of snack bags or a bag of powdered ingredients. Items can be up to 650mm wide and up to 1000mm in length. The conveyor will run at up to 30m/min and can handle weights of up to 50kg. A version is available (IX-GA-65100-E) which uses a higher resolution X-ray sensor to deliver higher clarity images.

For those wanting to detect packages over 270mm high, the 65100-A is available for up to a package height of 420mm.

## Dimensions



## Specifications

### IX-GA-65100

X-ray tube voltage	40/ 45/ 50/ 55/ 60/ 65/ 70/ 75/ 80/ 85/ 90/ 95/ 100kV								
X-ray tube current	1 - 5.0mA								
X-ray output	Max 350W								
X-ray protection	Protective curtain (rapidly detachable)								
X-ray emissions	1 µSv/h or less, including conveyor entrance/exit								
Product configuration	With or without packaging								
Inspection Chamber	<table border="1"> <tr> <td>Length</td><td>70 - 1,000mm (intermittent flow)</td></tr> <tr> <td>Width</td><td>Up to 650mm</td></tr> <tr> <td>Height</td><td>Up to 270mm (Option: Up to 420mm with safety cover)</td></tr> </table>	Length	70 - 1,000mm (intermittent flow)	Width	Up to 650mm	Height	Up to 270mm (Option: Up to 420mm with safety cover)		
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Conveyor	<table border="1"> <tr> <td>Material</td><td>FDA approval type urethane belt (white)</td></tr> <tr> <td>Dimensions</td><td>1,200mm (L) x 700mm (W)</td></tr> <tr> <td>Speed</td><td>5 - 30m/min.</td></tr> <tr> <td>Conveying Weight</td><td>Max 50kg (over entire length)</td></tr> </table>	Material	FDA approval type urethane belt (white)	Dimensions	1,200mm (L) x 700mm (W)	Speed	5 - 30m/min.	Conveying Weight	Max 50kg (over entire length)
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Dimensions	1,200mm (L) x 700mm (W)								
Speed	5 - 30m/min.								
Conveying Weight	Max 50kg (over entire length)								
Cooling method	Hermetical air cooling								
Power supply	AC200/ 208/ 220/ 230/ 240V, 50/60Hz Voltage variation: ± 10%								
Protective construction	IP65 (Conveyor unit: IP66)								
Operation temperature	0°C - 40°C ambient temperature (with no freezing or rapid temperature shifts)								
Operation humidity	30 - 85%RH (with no condensation)								

## GA Series

Ishida IX-GA Systems offer the benefits of state-of-the-art X-ray inspection, including all aspects of contaminant detection and product integrity checking. These advanced systems perform with the accuracy, efficiency and reliability expected of a leading-edge engineering firm with well over a century of food industry experience and a worldwide installed base. Models are available to inspect a wide range of product sizes.

### Detecting the full range of contaminants

An Ishida IX-GA will detect metal, glass, bone, shell, grit, plastic and hard rubber. Low density contaminant detection is a particular strength, and Ishida's GA (Genetic Algorithm) proprietary image-processing software can be rapidly programmed by the operator to detect these at relatively small sizes.

### Revealing more about the state of your product

The IX-GA system can 'see' through most types of packaging, including aluminium foil and cans, enabling the operator to check that the correct number of pieces is present, each having the right size, shape, alignment and thickness. It can also be used to check piece weight. With its Advanced Masking Facility, the system can be programmed to ignore items that form part of the product, such as metal clips.

### Linking seamlessly into your data systems

The IX-GA system provides you with secure, retrievable records. Operation logs and images are automatically stored with a time stamp. All data can be saved to a CF card, and are accessible using standard PC applications. The system has an Ethernet option for integration into your wider quality and traceability systems.

Product Size (mm)	
Height	Width
0	650
50	613
100	577
110	569
120	562
130	555
140	548
150	540
160	533
170	526
180	518
190	511
200	504
210	497
220	489
230	482

Product Size (mm)	
Height	Width
240	475
250	468
260	460
270	453
280	446
290	438
300	431
310	424
320	417
330	409
340	402
350	395
360	387
370	380
380	373
390	366

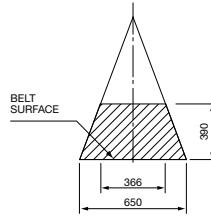
### Offering the highest levels of operator and product safety

X-ray emissions are contained within the inspection tunnel and its tungsten curtains. While the generator source can be turned on and off, it also stops with the opening of any guarding.

Inspection causes little X-ray absorption, and products are not changed or denatured. As an extra safety feature, any packs in the tunnel at start-up are automatically rejected.

### Simple operation, low maintenance

Operation, via a colour touchscreen, is extremely simple and easy to learn. Settings can be automatically optimised simply by passing a test product through the machine, and routine recalibration is not required. The system is designed to speed up product changeovers by facilitating rapid cleaning, while the sealed construction of its vital parts resists dust and moisture, ensuring long-term accuracy and reliability.



#### Inspection area for GA65100A

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

**ISHIDA EUROPE LIMITED**  
Kettles Wood Drive  
Woodgate Business Park  
Birmingham  
B32 3DB  
United Kingdom  
Tel: +44 (0)121 607 7700  
Fax: +44 (0)121 607 7888  
info@ishidaeurope.com

**ISHIDA CZECH REPUBLIC**  
Tel: +420 220 960 422  
info@ishidaeurope.cz

**ISHIDA EAST AFRICA**  
Tel: +254 (0)20 000425  
info@ishidaeurope.com

**ISHIDA FRANCE**  
Tel: +33 (0)1 48 63 83 83  
Fax: +33 (0)1 48 63 24 29  
info@ishidaeurope.fr

**ISHIDA GERMANY**  
Tel: +49 (0)791 945 160  
Fax: +49 (0)791 945 1699  
info@ishida.de

**ISHIDA MIDDLE EAST**  
Tel: +971 (0)4 299 1933  
Fax: +971 (0)4 299 1955  
ishida@ishida.ae

**ISHIDA NETHERLANDS**  
Tel: +31 (0)499 39 3675  
Fax: +31 (0)499 39 1887  
info@ishida.nl

**ISHIDA ROMANIA**  
Tel: +4 021 326 69 81  
Fax: +4 021 326 69 82  
info@ishidaeurope.ro

**ISHIDA RUSSIA AND CIS**  
Tel: +7 499 272 05 36  
Fax: +7 499 272 05 37  
info@ishidaeurope.ru

**ISHIDA SOUTH AFRICA**  
Tel: +27 (0)11 976 2010  
Fax: +27 (0)11 976 2012  
info@ishidaeurope.com

**ISHIDA SWEDEN**  
Tel: +46 (0)31 871 320  
info@ishidaeurope.se

**ISHIDA SWITZERLAND**

Tel: +41 (0)41 799 7999  
Fax: +41 (0)41 790 3927  
info@ishida.ch