FSCAN-series
XAVIS X-RAY INSPECTION SYSTEM
BEST IN CLASS FOR THE FOOD SAFETY

Xavis X-ray inspection systems provide practical customer solutions with reliable technology

Conscientious Customer Safety Features
First-class Inspection Quality
Superior Brand Reputations
**PRINCIPLE OF X-RAY INSPECTION**

1. Supports remote monitoring with audible alarm.
2. An X-ray generator is built in.
3. Turning the key to off stops X-ray radiation completely.
4. Interrupting the sensor for a certain period of time stops X-ray radiation.
5. Prevents X-ray leakage for unpacked or bulk products.
   - The standard lead impregnated curtains are replaced with SS covers preventing direct food contact with the curtains.
6. The lamp is lit when the X-ray is energized.
7. Turns off the X-ray and drive circuits, stops the conveyor and X-ray generation.
8. Opening the cover turns off the X-ray generator.
9. It is easy to move and height can be adjusted.

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**SAFETY OF FOOD X-RAY INSPECTION**

Everyone’s exposed to background radiation; it’s all around us and includes radiation from natural and man-made sources. In fact, natural sources of radiation account for approximately 80 percent of the total radiation most of us receive and there’s little we can do to escape it. After all, it’s impossible to stop eating, drinking or breathing. Each person of the world population is exposed to approximately 2,400 μSv of ionizing radiation from natural sources every year, which far exceeds the radiation exposure received from a properly-installed and maintained X-ray inspection system. Food X-ray systems are designed to ensure a perfectly safe working environment for operators. X-rays are electrically generated, which means they can be turned on and off, and X-ray generators are enclosed in cabinet systems to protect users from the effects of radiation.
**FOREIGN MATERIAL DETECTION**

Detection accuracy and performance stability begins with core technology inherent with FSCAN-series imaging. Xavis X-ray systems create X-ray images with the highest resolution the market offers as standard. Higher resolution provides a better image and better digital data for analysis resulting in significantly improved performance.

**TYPE OF FOREIGN MATERIALS X-RAY CAN DETECT**

- Metal / non-ferrous metals in foil, including stainless steel
- Glass / bone(calcified), PVC plastic, PTFE(Teflon) plastic
- Ceramic or concrete, rubber

**HIGH-SPEED INSPECTION**

200 meters per minute. Approximately 400~600 pcs per minute can be inspected (inspected pcs can vary depending on dimensions of the inspected product).

**OBJECT COUNTER**

Fscan software verifies the quantity of products in the box.

**SHAPE & MISSING PRODUCT DETECTION**

Fscan software verifies missing or damaged product identification for complete product integrity.

**MEASURING PRODUCT SIZE**

Inspects complete product presence by checking the density of product in a specific area within a pack.

**FILL LEVEL**

Fscan software verifies fill level of glass bottles, cans or plastic bottles irrespective of their opacity.

**MASS MEASUREMENT**

In some cases of uniform and homogenous products such as blocks of cheese, X-ray weighing can be reliably used for weighing products for internal uses.

**PRODUCT IN SEAL**

A fragment of the product or foreign material inside the packages seal may be detectable.

**FSCAN X-ray inspection system can improve productivity while inspecting the product for various quality control inspections.**

**BENEFITS OF FSCAN-SERIES**

- **Brand protection**
  - Customers will trust the products.

- **Food safety**
  - The food is free of foreign substance and safe to eat.

- **Cost savings due to no product recalls and customer complaints**
  - Fewer recalls and customer complaints lead to less fines.

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**MEASURING PRODUCT SIZE**

- Inspects complete product presence by checking the density of product in a specific area within a pack.

**FILL LEVEL**

- Verifies fill level of glass bottles, cans or plastic bottles irrespective of their opacity.

**MASS MEASUREMENT**

- Used for weighing products for internal uses.

**PRODUCT IN SEAL**

- Detects fragments of products or foreign material inside the packages seal.
**BULK INSPECTION**

**HOPPER AND GUIDE ARE INSTALLED**
- NUTS, GRAINS, CEREALS, FROZEN FRUITS AND VEGETABLES

X-ray bulk systems are robust, reliable, hygienic and simple to use. The design is optimized for the inspection of products that are transported loose and unpacked prior to packaging and processing such as nuts, grains, cereals, frozen fruits and vegetables or for formed products such as potato cakes & hamburgers.

To minimize product waste a high speed and accurate airjet reject mechanism rejects portions by selecting only the area of flow in which a foreign material has been detected.

**UNPACKAGED PRODUCT INSPECTION**

**INCLINED AND DECLINED CONVEYOR SYSTEM**
- CHICKEN BREAST, DOUGH, SLAB MEAT

Suitable for inspection of unpacked food, such as meat and fish, with which X-ray protection curtains cannot be used.

**PIPELINE INSPECTION**

**FOR INSPECTION OF FLUID, SEMI-SOLID PRODUCTS**
- GRIND PORK, Poultry trim, soups, jelly, jams

Pipeline X-ray inspection system that are designed to inspect pumped food products such as meat and poultry as well as slurries, semi-solids and fluids, at any stage in processing or before final packaging. Applications generally include sauces, jams, minced meat, molten chocolate, dairy spreads and ice cream.

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**DUAL ENERGY SENSOR SYSTEM**

**LOW-DENSITY FOREIGN MATERIALS DETECTION**
- PLASTIC, GLASS, BONE, ALUMINUM

X-ray inspection system is specially designed to detect objects of low-density in a package or product, which cannot be achieved by normal X-ray food inspection system. With its highly accurate image processor we see a 45% increased in the image clarity, the maximum capacity of detecting stainless foreign material is now improved from 0.8mm to 0.6mm.
USER-FRIENDLY OPERATION

15” Color touchscreen for easy operation
Simple and intuitive settings. With the “smart learning” function, basic sensitivity and X-ray power level can be set with sampling inspection of the product.

1000 unique products
Store products in more than 1000. Stored products have product settings value. A user does not require additional settings when inspecting other products.

Multi-language function
Fscan software supports multiple languages for display and input.

Smart learning
Simple and intuitive settings. With the “smart learning” function, basic sensitivity and X-ray power level can be set with sampling inspection of product.

Data management
Provides reports on defective and good products inspected by X-ray. Reports can be categorized into annual, monthly, weekly and daily reports and saved as an Excel file.

Image management
Save all produced images for post-tracking management.

Real time report
By checking the operation history of the equipment by date and time, information on the operation of the equipment can be grasped at a glance.

Real time report & online support
It is possible to report and confirm the quality in real time through the network and build a complete statistical system. All report and images can be downloaded via network.

User management
Program administrators can create and grant privileges to users.

Image analysis
Image zoom function.

Setting history
Save worker's setting modifying history and store all work history of the worker.

Easy sensitivity setting
Six algorithms can easily be adjusted to detect a foreign material.

Data analysis
Information on production and operation of the product can be seen on various type of chart.

Remote control
Customer Site

Smart learning
Sampling inspection
Auto Setting

OK
NG

NG
OK

Image analysis

OK
NG

OK
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**SIMPLE MAINTENANCE**

**STANDARD TYPE**

The conveyor belt and lead curtain can be easily removed/attached without tools, allowing easy cleaning and sanitation. (This function is provided as standard)

- Safety curtain & curtain guide removal
- Cleanable conveyor frame

**SAFETY DESIGN**

- X-ray ON/OFF key
  - Turning the key to OFF stops X-ray radiation completely
- Emergency stop switch
  - Cuts power to X-ray and drive circuits, stops the conveyor and X-ray radiation.
- X-ray energized display
  - The lamps are lit during X-ray radiation.
- Hand insertion sensor
  - Interrupting the sensor for a certain period of time stops X-ray radiation.
- Leakage prevention curtain
  - Prevents X-ray leakage. For unpacked or bulk products, the standard lead impregnated curtains are replaced with SS plates and covers—preventing direct food contact with the curtains.
- Door sensor
  - When the door is opened, the X-rays will automatically stop due to the failsafe feature being activated. This function is a standard on all our X-ray machines as being exposed to radiation can be harmful.

**INSPECTION EFFICIENCY**

Single packaged products are controlled simultaneously in 2~4 rows. Rated products in each row and sorted out.

**MULTI-LANE**

**COMBI SYSTEM**

Combi(X-ray + Checkweigher) System

- X-ray food inspection system and checkweigher in one unit
- Two types of inspection at once
- Saves space, cost and time
- Unique reject confirmation function

1st. X-ray inspection
2nd. weight check
Two reject Bins
Weight NG
X-ray NG

Inside the X-ray System
Rejection System
Guide rail (optional)
Bad Product
**REJECTOR LINEUP**

- **PUSHER**: It sorts products on a conveyor using an air-driven device. It is suitable for rejecting heavy items such as cardboard and kraft paper products.  
- **FLIPPER**: It is a general purpose system appropriate for thick products.  
- **LIFT-UP**: Lift-up/Drop-down system sorts products with a vertically movable belt. It is suitable for rejecting thin products.  
- **DROP-DOWN**: Drop-down system sorts products on a conveyor using an air-driven device. It is suitable for rejecting heavy items such as cardboard and kraft paper products.  
- **AIR BLAST**: Air blast system sorts products on a conveyor using an air-driven device. It is suitable for rejecting heavy items such as cardboard and kraft paper products.  
- **SHUTTLE**: Shuttle system sorts products on a conveyor using an air-driven device. It is suitable for rejecting heavy items such as cardboard and kraft paper products.  
- **CHUTE**: Chute system sorts products on a conveyor using an air-driven device. It is suitable for separating small bulk items.  
- **MULTI AIR-GUN**: Multi air-gun system sorts products on a conveyor using an air-driven device. It is suitable for separating small bulk items.

**GOOD PRODUCT**  
**NG PRODUCT**

**FSCAN SERIES LINEUP**

<table>
<thead>
<tr>
<th></th>
<th>Standard</th>
<th>Compact(L/E)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Small package</strong></td>
<td>![Image]</td>
<td>![Image]</td>
</tr>
<tr>
<td><strong>Midium package</strong></td>
<td>![Image]</td>
<td>![Image]</td>
</tr>
<tr>
<td><strong>Packaged</strong></td>
<td>![Image]</td>
<td>![Image]</td>
</tr>
<tr>
<td><strong>Large package</strong></td>
<td>![Image]</td>
<td>![Image]</td>
</tr>
<tr>
<td><strong>Canned or bottled products</strong></td>
<td>![Image]</td>
<td>![Image]</td>
</tr>
<tr>
<td><strong>Unpacked /Bulk</strong></td>
<td>![Image]</td>
<td>![Image]</td>
</tr>
<tr>
<td><strong>Pipeline</strong></td>
<td>![Image]</td>
<td>![Image]</td>
</tr>
<tr>
<td><strong>Liquid /Semi solid</strong></td>
<td>![Image]</td>
<td>![Image]</td>
</tr>
</tbody>
</table>

- **Standard**  
- **Compact(L/E)**

- **Scan width 400mm**  
- **Scan width 600mm**  
- **3280D/3280L**  
- **4280D/4500D/4280L**  
- **6280D/6500D**  
- **9500D**  
- **2080PH/2080PHE**  
- **2500PH/2500PHE**  
- **4280DB**  
- **45000P**  
- **6500B**
FSCAN-3280D

FSCAN-3280L

FSCAN-4280DI

FSCAN-4280L

FSCAN-4280DB

<table>
<thead>
<tr>
<th>SMALL PACKAGED / UNPACKAGED</th>
<th>LOW DENSITY MEDIUM PACKAGED / BULK</th>
</tr>
</thead>
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<table>
<thead>
<tr>
<th>MODEL NAME</th>
<th>PART CODE</th>
<th>DRAWING No.</th>
<th>SHEET No.</th>
<th>LAYOUT</th>
</tr>
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<tbody>
<tr>
<td>FSCAN-3280D</td>
<td>181773M-000000-0A</td>
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<td>1</td>
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<tr>
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<tr>
<td>FSCAN-4280DI</td>
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<tr>
<td>FSCAN-4280DB</td>
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</table>

<table>
<thead>
<tr>
<th>Inspection Area</th>
<th>Unit : mm</th>
</tr>
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</table>

<table>
<thead>
<tr>
<th>X-ray Output</th>
<th>3280D</th>
<th>3280L</th>
<th>4280DI</th>
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<tbody>
<tr>
<td>Max. Width</td>
<td>238 mm</td>
<td>233 mm</td>
<td>380 mm</td>
</tr>
<tr>
<td>Max. Height</td>
<td>180 mm</td>
<td>140 mm</td>
<td>50 mm</td>
</tr>
<tr>
<td>Speed</td>
<td>10~68 M/M</td>
<td>10~50 M/M</td>
<td>10~68 M/M</td>
</tr>
<tr>
<td>Width</td>
<td>270 mm</td>
<td>270 mm</td>
<td>420 mm</td>
</tr>
<tr>
<td>Height of Belt Level</td>
<td>750 ± 50 mm</td>
<td>750 ± 50 mm</td>
<td>750 ± 50 mm</td>
</tr>
<tr>
<td>Monitor</td>
<td>15” Touch screen</td>
<td>15” Touch screen</td>
<td>15” Touch screen</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>AC220V, 50/60Hz, 1.2kVA</td>
<td>AC220V, 50/60Hz, 1.0kVA</td>
<td>AC220V, 50/60Hz, 1.2kVA</td>
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<tr>
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<td>160kg</td>
<td>270kg</td>
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<table>
<thead>
<tr>
<th>X-ray Output</th>
<th>4280D</th>
<th>4280L</th>
<th>4280DB</th>
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<tbody>
<tr>
<td>Max. Width</td>
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<td>377 mm</td>
<td>380 mm</td>
</tr>
<tr>
<td>Max. Height</td>
<td>180 mm</td>
<td>200 mm</td>
<td>180 mm</td>
</tr>
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<tr>
<td>Height of Belt Level</td>
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<tr>
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<td>AC220V, 50/60Hz, 1.2kVA</td>
</tr>
<tr>
<td>Weight</td>
<td>230 kg</td>
<td>220 kg</td>
<td>230 kg</td>
</tr>
</tbody>
</table>

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## High Density Medium Packaged / Pipeline

**FSCAN-4500D**

- **X-ray Output**: 120kV, 4mA, 480W
- **Inspectable Products Size**
  - **Max. Width**: 389 mm
  - **Max. Height**: 200 mm
- **Conveyor**
  - **Speed**: 10-34 M/M
  - **Width**: 420 mm
- **Height of Belt Level**: 750 ± 50 mm
- **Monitor**: 15” Touch screen
- **Power Requirements**: AC220V, 50/60Hz, 1.5kVA
- **Transfer Pipe Dimension**: N/A
- **Processing Capacity (Flow)**: N/A
- **Weight**: 350 kg

**FSCAN-4500L**

- **X-ray Output**: 120kV, 4mA, 480W
- **Inspectable Products Size**
  - **Max. Width**: 380 mm
  - **Max. Height**: 200 mm
- **Conveyor**
  - **Speed**: 10-50 M/M
  - **Width**: 420 mm
- **Height of Belt Level**: 750 ± 50 mm
- **Monitor**: 15” Touch screen
- **Power Requirements**: AC220V, 50/60Hz, 1.5kVA
- **Transfer Pipe Dimension**: N/A
- **Processing Capacity (Flow)**: N/A
- **Weight**: 240 kg

**FSCAN-4500DP**

- **X-ray Output**: 120kV, 4mA, 480W
- **Inspectable Products Size**
  - **Max. Width**: N/A
  - **Max. Height**: N/A
- **Conveyor**
  - **Speed**: N/A
  - **Width**: N/A
- **Height of Belt Level**: 800 ± 50 mm
- **Monitor**: 15” Touch screen
- **Power Requirements**: AC220V, 50/60Hz, 1.5kVA
- **Transfer Pipe Dimension**: N/A
- **Processing Capacity (Flow)**: 12.0 kl/h
- **Weight**: 430 kg

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## Large Packaged

**FSCAN-6280D**

- **X-ray Output**: 80kV, 1.25mA, 100W
- **Inspectable Products Size**
  - **Max. Width**: 573 mm
  - **Max. Height**: 300 mm
- **Conveyor**
  - **Speed**: 10-70 M/M
  - **Width**: 620 mm
- **Height of Belt Level**: 750 ± 50 mm
- **Monitor**: 17” Touch screen
- **Power Requirements**: AC220V, 50/60Hz, 1.3kVA
- **Weight**: 540 kg

**FSCAN-6500D**

- **X-ray Output**: 120kV, 4mA, 480W
- **Inspectable Products Size**
  - **Max. Width**: 954 mm
  - **Max. Height**: 250 mm
- **Conveyor**
  - **Speed**: 7.5-15 M/M
  - **Width**: 1,000 mm
- **Height of Belt Level**: 800 ± 50 mm
- **Monitor**: 15” Touch screen
- **Power Requirements**: AC220V, 50/60Hz, 2.6kVA
- **Weight**: 790 kg

**FSCAN-9500D**

- **X-ray Output**: 120kV, 4mA, 480W
- **Inspectable Products Size**
  - **Max. Width**: 1,738 mm
  - **Max. Height**: 259 mm
- **Conveyor**
  - **Speed**: N/A
  - **Width**: 3-inch diameter
- **Height of Belt Level**: 900 ± 50 mm
- **Monitor**: 17” Touch screen
- **Power Requirements**: AC220V, 50/60Hz, 2.6kVA
- **Weight**: 790 kg

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## SMALL CANNED, BOTTLED

<table>
<thead>
<tr>
<th>FSCAN-2080PH</th>
<th>Inspection Area</th>
<th>Unit: mm</th>
</tr>
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<tbody>
<tr>
<td></td>
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<table>
<thead>
<tr>
<th>FSCAN-2080PHE</th>
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### Specifications

<table>
<thead>
<tr>
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<th>2080PHE</th>
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</thead>
<tbody>
<tr>
<td>X-ray Output</td>
<td>80kV, 1.25mA, 100W</td>
<td>80kV, 1.25mA, 100W</td>
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<tr>
<td>Inspectable Products Size</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. Width</td>
<td>250 mm</td>
<td>250 mm</td>
</tr>
<tr>
<td>Max. Height</td>
<td>297 mm</td>
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<tr>
<td>Conveyor</td>
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<tr>
<td>Speed</td>
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<tr>
<td>Width</td>
<td>250 mm</td>
<td>250 mm</td>
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<tr>
<td>Height of Belt Level</td>
<td>850 ± 50 mm</td>
<td>750 ± 50 mm</td>
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<tr>
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<td>15” Touch screen</td>
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<td>AC220V, 50/60Hz, 1.2kVA</td>
<td>AC220V, 50/60Hz, 1.2kVA</td>
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<tr>
<td>Weight</td>
<td>450 kg</td>
<td>230 kg</td>
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## LARGE CANNED, BOTTLED

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<table>
<thead>
<tr>
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<table>
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<th>2500PH</th>
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<tbody>
<tr>
<td>X-ray Output</td>
<td>120kV, 4mA, 480W</td>
<td>120kV, 4mA, 480W</td>
</tr>
<tr>
<td>Inspectable Products Size</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. Width</td>
<td>250 mm</td>
<td>350 mm</td>
</tr>
<tr>
<td>Max. Height</td>
<td>320 mm</td>
<td>328 mm</td>
</tr>
<tr>
<td>Conveyor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Speed</td>
<td>10–50 M/M</td>
<td>10–50 M/M</td>
</tr>
<tr>
<td>Width</td>
<td>250 mm</td>
<td>350 mm</td>
</tr>
<tr>
<td>Height of Belt Level</td>
<td>850 ± 50 mm</td>
<td>750 ± 50 mm</td>
</tr>
<tr>
<td>Monitor</td>
<td>15” Touch screen</td>
<td>15” Touch screen</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>AC220V, 50/60Hz, 1.5kVA</td>
<td>AC220V, 50/60Hz, 1.5kVA</td>
</tr>
<tr>
<td>Weight</td>
<td>550 kg</td>
<td>250 kg</td>
</tr>
</tbody>
</table>

### OPTIONS

- Higher level of protection: Body (Upper part) IP65
- Air conditioner
- Surface treatment: Matt / Hairline finish
- Adjusting belt height (Maximum 900mm)
- Air conditioner: For hot (over 30 degrees) and humid (over 70% RH) or dusty site
- Increasing belt speed
- CE parts and certificate
- Increasing tunnel height
- Combination rejector (with reject confirmation function)
- Lockable rejector bin