

DATA SHEET

SXRF-4080DE

Dual Energy X-Ray Scanner

The Bizerba SXRF-4080DE is a Dual Energy X-Ray system designed for bone detection in poultry, meat, and seafood. Using advanced X-Ray detector technology and AI-driven pattern recognition, it offers the highest detection levels among X-Ray inspection systems, effectively identifying bones and foreign objects like glass, rubber, and plastic.

Main features

Compact, space-saving design

Tool-free belt removal for fast and efficient cleaning

Direct Photon Counting Detector enhances detection sensitivity while reducing operating costs

Pre-built AI-Inspection Calibrations mean near turn-key installation & commissioning

AI-powered inspection minimizes false rejects and enables reliable stacked product analysis

Rapid 20 second boot-up time for uninterrupted production

Dynamic rejector timing reduces unnecessary rework

Available with IP66 or IP69k washdown ratings

Hygienic, non-tubular frame design



System functions

High-Precision Bone Detection – Identifies bones as small as <1mm for enhanced food safety

Superior Metal Sensitivity – Detects stainless steel down to 0.4mm, exceeding 0.8mm rework specifications

High-Speed Inspection – Processes up to 250 pieces per minute per lane or operates at 40 m/min.

Integrated Weight & Grading System – Performs real-time product weighing and classification

Automated Contaminant Removal – Features an automatic rejection system for non-compliant products

Dual-Lane Inspection Capability – Simultaneously inspects multiple product streams for increased efficiency

Technical data

Specifications	Facts
Model	SXRF 4080DE
X-ray lamp	MAX. 80kV, 350W
Detector	0.4mm TDI Dual Energy (Standard) or 0.1mm Direct Photon Counting (Upgrade)
Bone detection	≥1.0mm (dependent on product height & presentation)
Maximum product height	100 mm (>100mm with use of stainless-steel curtains)
Maximum product width	400 mm
Belt speed	0-40 m/min
Maximum speed	250 PPM per lane (500 total)
Rejector	Dynamic Pneumatic Retractor (available in dual lane)
Radiation protection	Protective tunnel w/ security interlocks
External radiation	< 0.5µSu/h
Cooling	Industrial air conditioner
Product management	Automatic recording of the parameters of the tested product
Image management	Automatic image saving and analysis
Parameter adjustment	Automatic self-learning
Display	17" touch screen
Operating system	Windows 10
Connection	USB port (USB2.0), Ethernet interface, OPC-UA
Supply voltage	110-240 VAC/20A
Power consumption	1200 W
Pneumatic requirement	4-8bar/58-116 psi
Tightness class	Available in IP66 & IP69k configurations
Machine cleaning level	Easy
Working temperature	from -10°C to 40°C
Working humidity	30-90% non-condensing water vapor
Standard device height	800 + 100mm
Housing material	Glass-blasted stainless steel

Options

Automatic Reject and Rework Conveyor with Light Tables – Enhances product handling by ensuring efficient rejection and rework inspection.

Integrated Belt Sprayer – Supports continuous cleaning for improved hygiene and operational efficiency.

Stainless Steel Curtains – Designed for products exceeding 100mm in height, ensuring controlled scanning and accuracy.

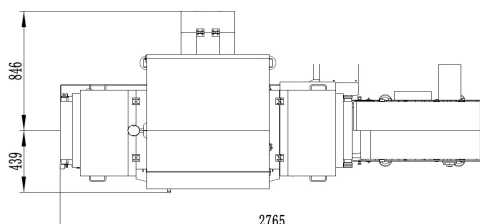
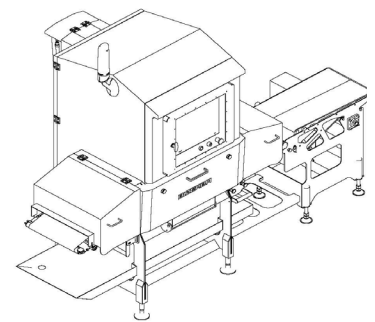
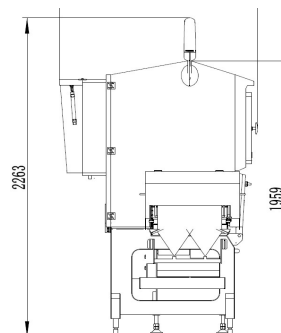
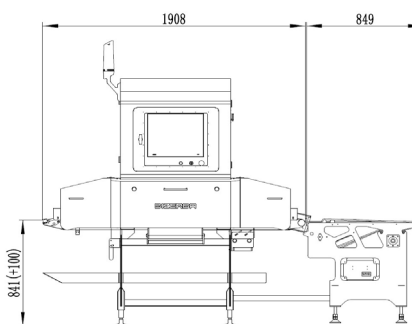
Detector Options – Available with a standard dual-energy TDI detector or an upgraded Direct Photon Counting detector for enhanced sensitivity.

Configurable Washdown Ratings – Standard IP66 protection, with an optional upgrade to IP69K for high-pressure sanitation.

FROST Thermostat and Heating System – Prevents condensation and corrosion, ensuring long-term performance in cold environments.

OPC-UA Industrial Communication Protocol – Enables seamless data exchange and integration into smart production systems.

TECHNICAL DRAWINGS



RELATED PRODUCTS

Inspection Portfolio

**Dynamic Checkweighers**

Ensure precision and compliance. Scan for details or contact our specialist.

**X-ray Inspection systems**

Detect what you can't see. Scan to learn more or reach out to our expert.

**Vision Inspection systems**

See the unseen. Scan for insights or consult our specialist.

**Metal Detection systems**

Stay protected. Scan for information or talk to our expert.



Bizerba: All from one source

01
Devices & Facilities

02
Software

03
Labels

04
Service

05
Financing

READY TO TAKE THE NEXT STEP?

Contact our experts today

Arrange a consultation or ask for additional information.

Bizerba Canada Inc.
5865 McLaughlin Road, Unit #3
Mississauga, Ontario
L5R 1B8

T +1 (888) 240-3722
ca.info@bizerba.com

bizerba.com



X-RAY BONE DETECTOR

SXRF-4080DE Dual Energy X-Ray Scanner

Advanced AI-powered detection for
precise contaminant inspection in bulk
food products.

DESCRIPTION

The SXRF-4080DE-AI dual-energy X-ray scanner is designed to inspect poultry, seafood, and pork and beef trim products, combining advanced detection capabilities with artificial intelligence to set a new standard in bulk product inspection. It effectively identifies foreign bodies like bones, glass, hard plastics, and extremely small metal contaminants, even with minimal density differences.

HIGHLIGHTS

- Dual-energy technology for precise foreign body detection.
- Intelligent algorithm with auto-learning for accuracy.
- TDI technology for sharper imaging and sensitivity.
- Hygienic IP67-rated stainless steel housing.
- Adjustable tape speed up to 40 m/min.
- Meets CE and FDA safety standards.

OPTIONS

- Artificial intelligence for superior analysis.
- FROST system for temperature and humidity control.
- Customizable conveyor lengths and housing materials.
- Integrated separator systems for rejection.
- Remote monitoring and PLC control.
- Tailored configurations for specific customer needs.

Contact information



+1 (888) 240-3722



ca.info@bizerba.com



bizerba.com

Bizerba solutions

Hardware | Software | Labels | Service | Financing

BIZERBA

DATA SHEET

SXRF-4080DE

Dual Energy X-Ray Scanner

The Bizerba SXRF-4080DE is a Dual Energy X-Ray system designed for bone detection in unpackaged poultry, meat, and seafood. Using advanced X-Ray detector technology and AI-driven pattern recognition, it offers the highest detection levels among X-Ray inspection systems, effectively identifying bones and foreign objects like glass, rubber, and plastic.

Main features

Compact, space-saving design

Tool-free belt removal for fast and efficient cleaning

Direct Photon Counting Detector enhances detection sensitivity while reducing operating costs

Pre-built AI-Inspection Calibrations mean near turn-key installation & commissioning

AI-powered inspection minimizes false rejects and enables reliable stacked product analysis

Rapid 20 second boot-up time for uninterrupted production

Dynamic rejector timing reduces unnecessary rework

Available with IP66 or IP69k washdown ratings

Hygienic, non-tubular frame design



System functions

High-Precision Bone Detection – Identifies bones as small as <1mm for enhanced food safety

Superior Metal Sensitivity – Detects stainless steel down to 0.4mm, exceeding 0.8mm rework specifications

High-Speed Inspection – Processes up to 250 pieces per minute per lane or operates at 40 m/min.

Integrated Weight & Grading System – Performs real-time product weighing and classification

Automated Contaminant Removal – Features an automatic rejection system for non-compliant products

Dual-Lane Inspection Capability – Simultaneously inspects multiple product streams for increased efficiency

Technical data

Specifications	Facts
Model	SXRF 4080DE
X-ray lamp	MAX. 80kV, 350W
Detector	0.4mm TDI Dual Energy (Standard) or 0.1mm Direct Photon Counting (Upgrade)
Bone detection	≥1.0mm (dependent on product height & presentation)
Maximum product height	100 mm (>100mm with use of stainless-steel curtains)
Maximum product width	400 mm
Belt speed	0-40 m/min
Maximum speed	250 PPM per lane (500 total)
Rejector	Dynamic Pneumatic Retractor (available in dual lane)
Radiation protection	Protective tunnel w/ security interlocks
External radiation	< 0.5μSu/h
Cooling	Industrial air conditioner
Product management	Automatic recording of the parameters of the tested product
Image management	Automatic image saving and analysis
Parameter adjustment	Automatic self-learning
Display	17" touch screen
Operating system	Windows 10
Connection	USB port (USB2.0), Ethernet interface, OPC-UA
Supply voltage	110-240 VAC/20A
Power consumption	1200 W
Pneumatic requirement	4-8bar/58-116 psi
Tightness class	Available in IP66 & IP69k configurations
Machine cleaning level	Easy
Working temperature	from -10°C to 40°C
Working humidity	30-90% non-condensing water vapor
Standard device height	800 + 100mm
Housing material	Glass-blasted stainless steel

Options

Automatic Reject and Rework Conveyor with Light Tables – Enhances product handling by ensuring efficient rejection and rework inspection.

Integrated Belt Sprayer – Supports continuous cleaning for improved hygiene and operational efficiency.

Stainless Steel Curtains – Designed for products exceeding 100mm in height, ensuring controlled scanning and accuracy.

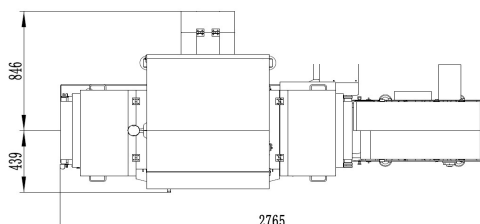
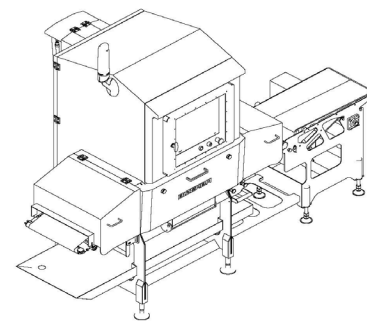
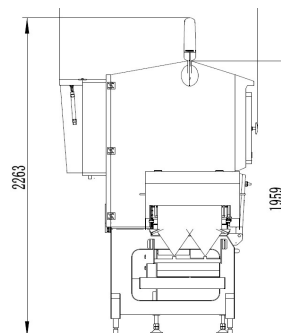
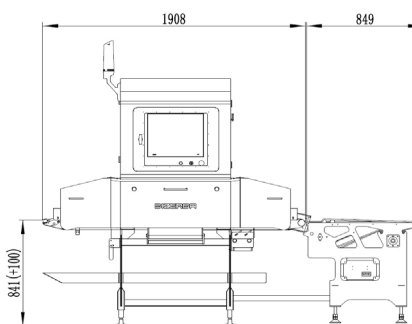
Detector Options – Available with a standard dual-energy TDI detector or an upgraded Direct Photon Counting detector for enhanced sensitivity.

Configurable Washdown Ratings – Standard IP66 protection, with an optional upgrade to IP69K for high-pressure sanitation.

FROST Thermostat and Heating System – Prevents condensation and corrosion, ensuring long-term performance in cold environments.

OPC-UA Industrial Communication Protocol – Enables seamless data exchange and integration into smart production systems.

TECHNICAL DRAWINGS



RELATED PRODUCTS

Inspection Portfolio

**Dynamic Checkweighers**

Ensure precision and compliance. Scan for details or contact our specialist.

**X-ray Inspection systems**

Detect what you can't see. Scan to learn more or reach out to our expert.

**Vision Inspection systems**

See the unseen. Scan for insights or consult our specialist.

**Metal Detection systems**

Stay protected. Scan for information or talk to our expert.



Bizerba: All from one source

01
Devices & Facilities

02
Software

03
Labels

04
Service

05
Financing

READY TO TAKE THE NEXT STEP?

Contact our experts today

Arrange a consultation or ask for additional information.

Bizerba USA Inc.
1804 Fashion Court
Joppa, MD 21085

T +1 (732) 565-6000
us.info@bizerba.com

bizerba.com



X-RAY BONE DETECTOR

SXRF-4080DE

Dual Energy X-Ray Scanner

Advanced AI-powered detection for
precise contaminant inspection in bulk
food products.

DESCRIPTION

The SXRF-4080DE-AI dual-energy X-ray scanner is designed to inspect poultry, seafood, and pork and beef trim products, combining advanced detection capabilities with artificial intelligence to set a new standard in bulk product inspection. It effectively identifies foreign bodies like bones, glass, hard plastics, and extremely small metal contaminants, even with minimal density differences.

HIGHLIGHTS

- Dual-energy technology for precise foreign body detection.
- Intelligent algorithm with auto-learning for accuracy.
- TDI technology for sharper imaging and sensitivity.
- Hygienic IP67-rated stainless steel housing.
- Adjustable tape speed up to 40 m/min.
- Meets CE and FDA safety standards.

OPTIONS

- Artificial intelligence for superior analysis.
- FROST system for temperature and humidity control.
- Customizable conveyor lengths and housing materials.
- Integrated separator systems for rejection.
- Remote monitoring and PLC control.
- Tailored configurations for specific customer needs.

Contact information



+1 (732) 565-6000



us.info@bizerba.com



bizerba.com