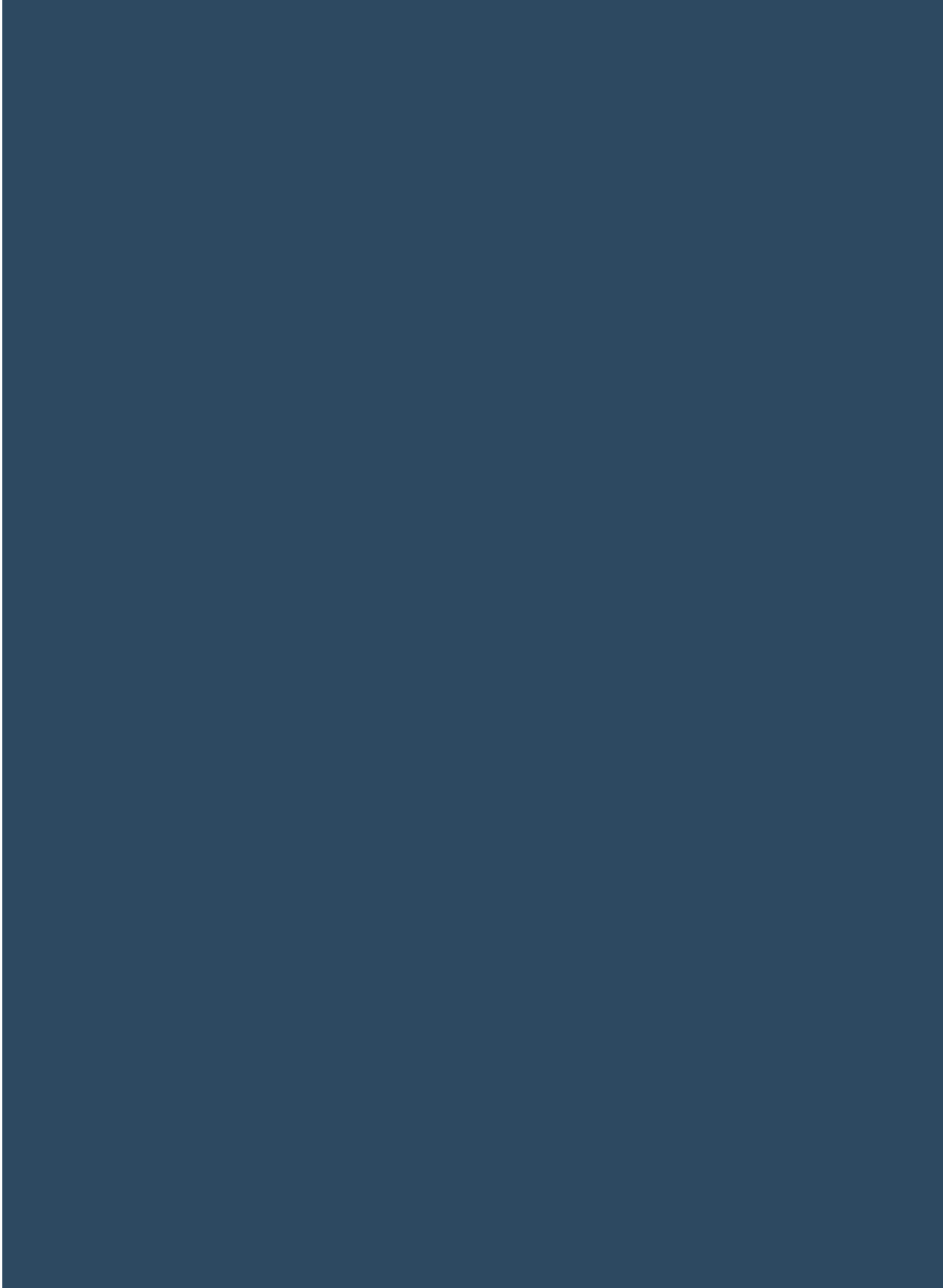




PRECISION DETECTION





WHOLE CHAIN INSPECTION SOLUTION



# INNOVATION & TECHNOLOGY IN FOOD INSPECTION

## OUR VISION: LEADING THE INDUSTRY – TOGETHER WITH YOU

Who is the best technology-partner when it comes to detection devices? Who is reliable, offers a range of machines matching the individual process of manufacture? Who has the latest technologies available plus first-class service and spare-part-delivery? Who is constantly developing and researching to be exactly the right choice also in the future? Questions like these were driving us to where we are today – and we keep doing!

## WHY X-RAY

X-Ray inspection detects physical objects that cannot be identified visually. Unlike traditional metal detectors X-Ray technology can detect in processed food operations metallic contaminants even smaller than one millimeter and also non-metallic contaminants (hard plastic, hard rubber, bones, ceramic, glass, stones etc.). It can inspect non-metallic and metallic packaging like cans or clipped products. Inspection is not affected by temperature, humidity, vibrations, salt content etc. Applications are constantly expanding for this powerful technology, which is not only used for detecting contaminants. Additionally, also defects in shape, quantity and other aspects are identified. Consequently, X-Ray has been becoming the new safety standard for the food industry.



## EVERYTHING STARTS WITH A GOOD IDEA-OUR GERMAN ROOTS

With more than 25 years of experience in this highly competitive sector isiray is the German think-tank behind all RaymanTech machinery. Knowing the industry and customers' demands, talking to customers and planning future projects, isiray is RaymanTech's driving force by constantly evaluating the needs of one of the most demanding markets worldwide: Europe.

This extremely challenging field concerning detection results, usability, durability, hygienic design, efficiency and of course costs is our Core-market, and this is where the DNA of our machines was originated. Besides Europe of course also customer-experiences from all other markets still influence our way of thinking and developing our machines.

European research and German engineering combined with two sophisticated production-facilities - one in Germany for the European and USA customers, one in Shanghai for the Asian market - are premium not only for our global operating customers.

## WHY RAYMANTECH

Since ever it is our daily goal to set new standards in the world of food-safety. We improve existing technologies, invent new features and push limits. Knowledge of the industry, seeing all the good and less good machines in the market and knowing our customers' needs, our core-competence leads us where we are now: Today RaymanTech is the number one supplier with the biggest imaginable range of machines in the world of detection devices for the food industry, present in almost every country on the planet.

Offering machines for every application field in the food industry our customer can choose from low-price entry-models up to high-end machines equipped with the utmost significant components from leading providers. We invent new solutions like the combination of X-Ray and optical systems. And the power of artificial intelligence can also be used in every machine.

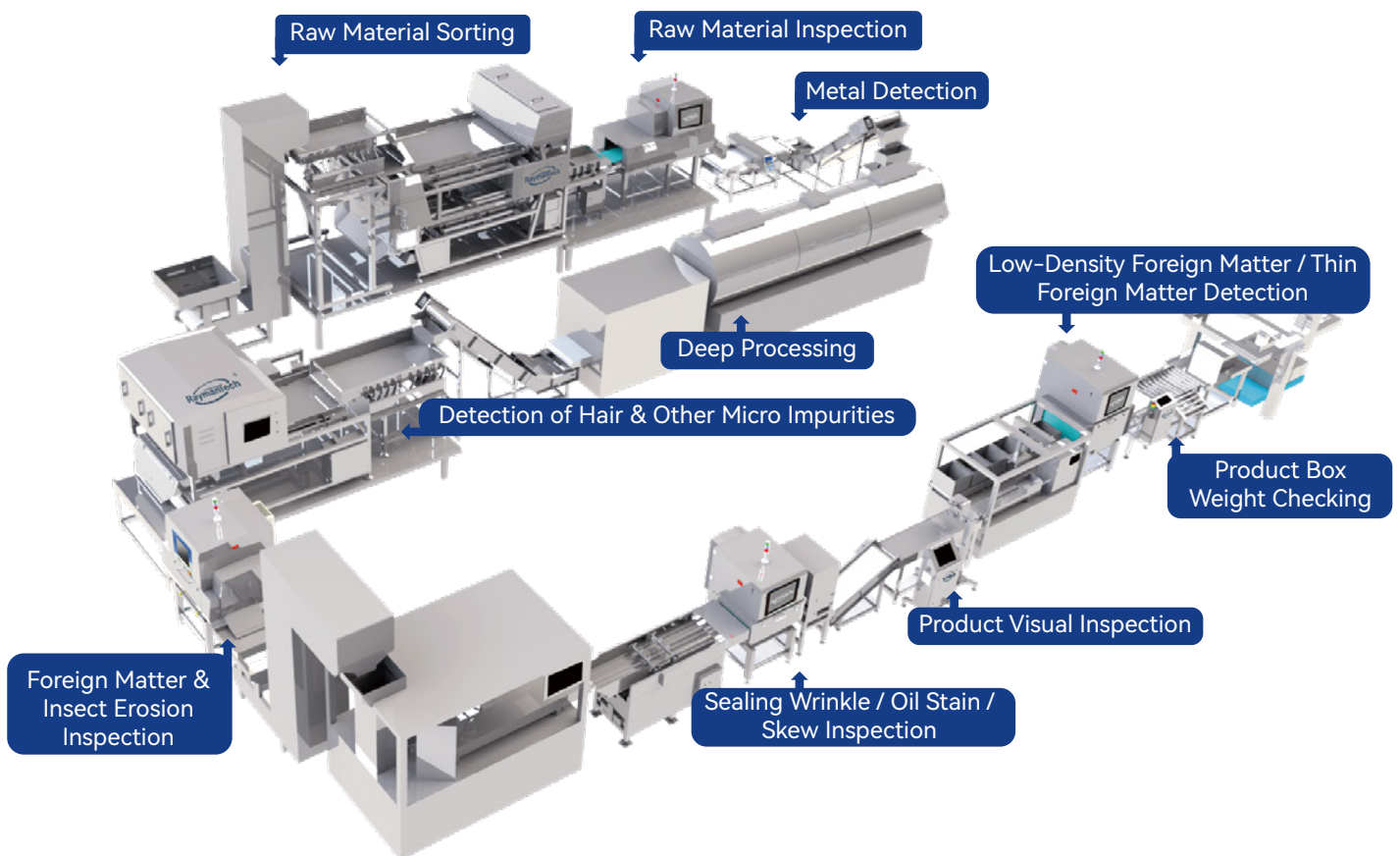
Of course, we own every relevant certificate and licence like CE, radiation safety permit etc.



# WHOLE CHAIN INSPECTION

**RAYMANTECH** is able to provide a whole chain inspection solution including raw material inspection, processing inspection, after package inspection.

**INSPECTION RANGE:** foreign body contamination inspection, residual bone and fish bone inspection, fat content analysis, missing parts inspection, weight measurement, color recognition, sealing inspection, filling control etc.



# CTION SOLUTION

	CONVENTIONAL CONTAMINANTS	ORGANIC & LOW DENSITY CONTAMINANTS	SHRINKING, MILDEW, EMPTY, HALF	BONES INSPECTION
<b>RAW MATERIAL INSPECTION</b>  	<b>SUS BALL</b> Φ0.3mm Φ0.4mm Φ0.5mm Φ0.6mm Φ0.7mm Φ0.8mm	 Stick      Cigarette Butts	 Mildew      Shrinking	 Bone
	<b>SUS WIRE</b> 0.2*2mm 0.3*2mm 0.4*2mm 0.5*2mm 0.6*2mm 0.7*2mm	 Button      Insects	 Wormhole      Kernal	 Fish Bones
<b>PROCESSING INSPECTION</b>  	<b>GLASS BALL</b> Φ0.8mm Φ1.0mm Φ1.5mm Φ2.0mm Φ2.5mm Φ3.0mm	<b>DEFECTS INSPECTION</b>   Defects	<b>FILLING CONTROL</b>   Filling Level	<b>COLOR RECOGNITION</b>   Color Recognition
	<b>CERAMIC BALL</b> Φ0.8mm Φ1.0mm Φ1.5mm Φ2.0mm Φ2.5mm Φ3.0mm	<b>SEALING INSPECTION</b>   Sealing Inspection	<b>WEIGHT CHECKING</b>   Virtual Weighing & Fat Content Determination	<b>MISSING INSPECTION</b>   Counting Function
<b>AFTER PACKAGE INSPECTION</b>				

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### DUAL ENERGY SERIES

#### RXD MS SERIES FOR THIN CONTAMINANTS & BONES

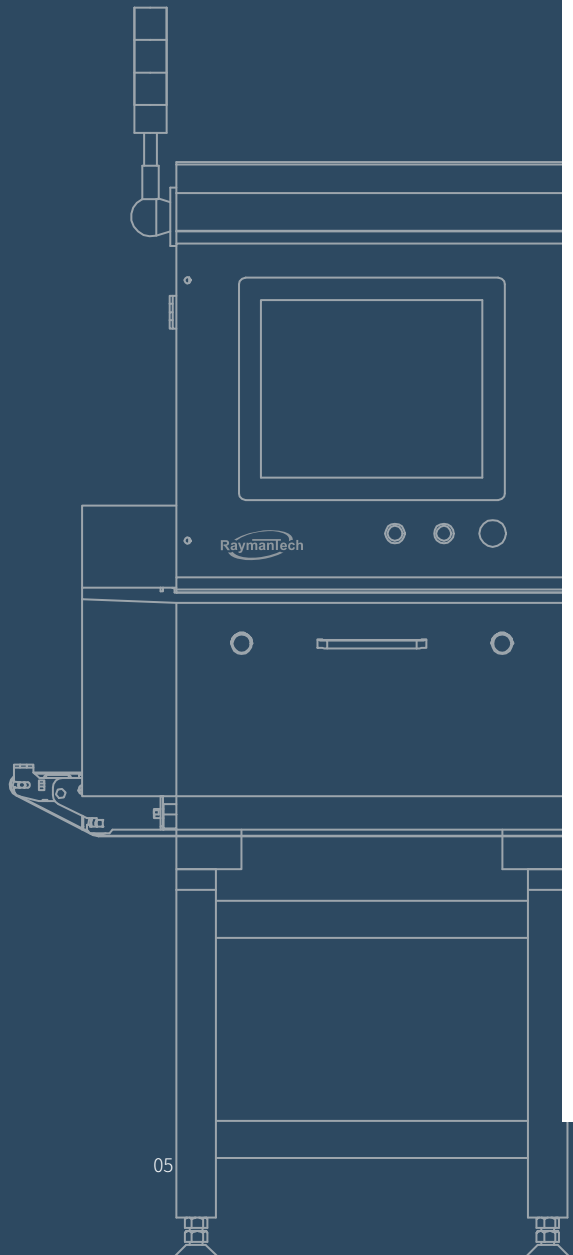
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# X-RAY SYSTEM CHARACTERISTICS

## ACCURATE & EFFICIENT / STABLE & RELIABLE

Accurate, efficient, stable and reliable detection of tiny contaminants in single-channel or multi-channel.

Multiple quality control, completeness check, sealing detection, weight check, filling level control, fat content analysis, residual bone and fish bone scanning.

Customized intelligent software greatly improves the recognition rate of various low-density foreign objects such as plastic flakes, mud blocks, cable ties, cigarette butts, insects, etc.

Easy to set up and operate.

## HYGIENIC DESIGN / FOLLOWING HIGHEST INDUSTRY STANDARDS

- ✔ Open access and easy disassembly for cleaning on a microbiological level.
- ✔ Smooth, sloped surface against liquid pooling and supporting drainage.
- ✔ Open, solid frame design. No hollow and tubing or attachments.
- ✔ Food contact areas are all food-grade materials with highest strength and corrosion resistance.

## QUICK SETUP / CONTROL & AUTHENTICATION

- ✔ Provide serial port, Ethernet port, USB port, OPC.
- ✔ Auto-setup feature ensures quick setup with simple operation.
- ✔ Historical data statistics, quality report generation, reminder time record, full box reminder of defective products, and security authority login management help enterprises to effectively manage actual operations.
- ✔ Equipment condition monitoring for better process control.

## FLEXIBLE APPLICATION / SAFE TO USE

- ✔ Provide 180–800mm width, 100–400mm height through tunnel, and configure 1-108 channels on demand, to meet different product applications.
- ✔ Provide solutions for various forms of products such as bag/box/carton, bottle, can, bulk, unpackaged, etc.
- ✔ Incorporates a radiation-free leakage safety mechanism to meet clients' requirements.

TECH  
+  
SOLUTIONS



# ARTIFICIAL INTELLIGENCE TECHNOLOGY

AI technology, in X-Ray inspection system is adopted to replace manual analysis of images to quickly and accurately distinguish the target product shape, size, appearance etc.



## MAIN ADVANTAGES OF AI TECHNOLOGY



**01**  
Low dense contaminants detection



**02**  
Micro impurity detection



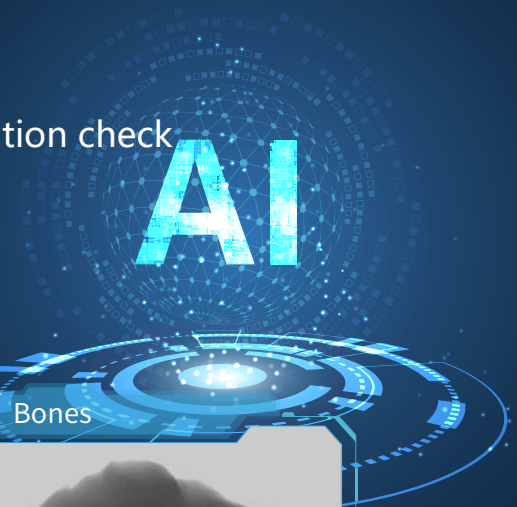
**03**  
Minimizing false rejects



**04**  
Sealing, leaking, filling control



**05**  
Food agglomeration check

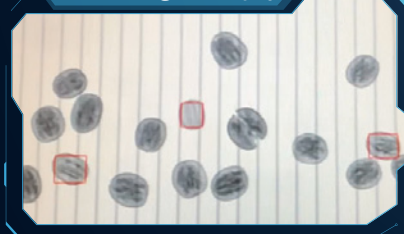


## INSPECTION RESULTS

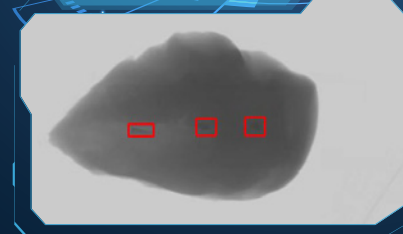
Shape Recognition



Shrinking & Empty



Bones



Mesh Wire



Bottom Corner Check



Leakage



TOP DOWN SERIES

# X-RAY INSPECTION SYSTEM

Inspection of metal and non-metal contaminants mixed in metallic and non-metallic package. It can also inspect the defects, weight and sealing of the products. The inspection results will not be affected by temperature, humidity, salt content, etc.



# RXE ECO SERIES

## FEATURES:

- 0.4 MM HIGH RESOLUTION LINE-ARRAY TECHNOLOGY
- COMPACT DESIGN
- IP65 FOR INSPECTION TUNNEL
- CLIP AND EDGE MASKING FUNCTION
- VIRTUAL WEIGHING FUNCTION
- DATA TRANSFER AND REMOTE SUPPORT



## APPLICATION:

WIDELY USED TO CHECK SMALL AND MIDDLE SIZE METALLIC AND NON-METALLIC PACKAGED PRODUCTS.

Specification			
Model	RXE- 1815	RXE- 2815	RXE- 3815
Inspection Height	150mm	150mm	150mm
Inspection Width	180mm	280mm	380mm
Best Inspection Sensitivity	SUS Ball $\Phi$ 0.4-0.5mm, SUS Wire $\Phi$ 0.3*2mm Glass Ball $\Phi$ 1.0-1.5mm, Ceramic Ball $\Phi$ 1.0-1.5mm		
X-ray Tube	210W/65kV		
Conveyor Parameter	Speed	10-90m/min,maximum 2kg 10-60m/min,maximum 5kg	
	Width	200mm	300mm
	Max Height	150mm	
Operation	Full-color TFT 15" Touch Screen		
X-ray Leakage	<1 $\mu$ Sv/h (CE Standard)		
X-ray Protection	Protective Curtain		
IP for Inspection Tunnel	IP65		
Product Management	Complete Product Log		
Parameter Adjustment	Auto Learning/Manual Setting		
Image Management	Auto Image Save/Print/Analyses		
Equipment Management	MTBF, MTTR, Error Logs, Error Analysis		
Product Storage	Max Storage of Product Parameter Can Reach 1000 Kinds		
Body Material	SUS304		
Surface Dealing	Sand Blasted		
Purification	Easy To Wash		
Cooling Method	Air Conditioned Cooling		
Environmental, electrical, operating specifications			
Operating Temperature	0-40°C		
Relative Humidity	30-90%		
Power Supply	220V, AC, 50/60Hz		
O/S	Windows		
Communication Method	LAN Port, USB Port		

# RXI CLASSIC SERIES

## FEATURES:

- TDI-DETECTOR TECHNOLOGY, HIGH RESOLUTION DETECTOR
- IP67 FOR INSPECTION TUNNEL
- IP66 FULL BODY AVAILABLE
- DEFECTS AND MISSING INSPECTION
- VIRTUAL WEIGHING, COUNTING FUNCTION AND OTHER



## APPLICATION:

APPLICABLE FOR ALMOST EVERY PACKAGED PRODUCT. SMALLEST CONTAMINANT DETECTION DUE TO TDI DETECTOR TECHNOLOGY. ALL-PURPOSE SYSTEM WITH WIDE RANGE OF IP PROTECTION CLASSES.

Specification							
Model	RXI-2416	RXI-4016	RXI-4030	RXI-5030	RXI-6030	RXI-8040	
Inspection Height	160mm	160mm	300mm	300mm	300mm	400mm	
Inspection Width	240mm	400mm	400mm	500mm	600mm	800mm	
Best Inspection Sensitivity	SUS Ball $\Phi$ 0.3mm			SUS Ball $\Phi$ 0.4mm			
	SUS Wire $\Phi$ 0.2*2mm			SUS Wire $\Phi$ 0.3*2mm			
	Glass Ball $\Phi$ 1.0mm			Ceramic Ball $\Phi$ 1.0mm			
X-ray Tube	210W/80kV		350W/100kV				
Conveyor Parameter	Speed	10-90m/min,maximum 5kg 10-60m/min,maximum 15kg 10-40m/min,maximum 30kg					
	Width	256mm	414mm	414mm	514mm	614mm	814mm
	Max Height	160mm		300mm		400mm	
Operation	Full-color TFT 17" Touch Screen						
X-ray Leakage	<1 $\mu$ Sv/h (CE Standard)						
X-ray Protection	Protective Curtain						
IP for Inspection Tunnel	IP67						
Product Management	Complete Product Log						
Parameter Adjustment	Auto Learning/Manual Setting						
Image Management	Auto Image Save/Print/Analyses						
Equipment Management	MTBF, MTTR, Error Logs, Error Analysis						
Product Storage	Max Storage of Product Parameter Can Reach 1000 Kinds						
Body Material	SUS304						
Purification	Easy To Wash						
Surface Dealing	Sand Blasted						
Cooling Method	Air Conditioned Cooling						
Environmental, electrical, operating specifications							
Operating Temperature	0-40°C						
Relative Humidity	30-90%						
Power Supply	220V, AC, 50/60Hz						
O/S	Windows						
Communication Method	LAN Port, USB Port						

# RXI ELITE SERIES



## FEATURES:

- AI-POWERED TDI-DETECTOR TECHNOLOGY, HIGH RESOLUTION DETECTOR
- IP67 FOR INSPECTION TUNNEL
- IP69K FULL BODY AVAILABLE
- DEFECTS AND MISSING INSPECTION
- VIRTUAL WEIGHING, COUNTING FUNCTION AND OTHER APPLICATIONS
- DATA TRANSFER AND REMOTE SUPPORT

## APPLICATION:

HIGH-END SOLUTION FOR SMALLEST CONTAMINANT DETECTION DUE TO AI-POWERED TDI-DETECTOR TECHNOLOGY. FULL RANGE OF PRODUCT INTEGRITY CHECKS INCLUDED. ALSO AVAILABLE IN IP69K TO WITHSTAND TOUGHEST CONDITIONS.

Specification							
Model	RXI-2416-HD	RXI-4016-HD	RXI-4030-HD	RXI-5030-HD	RXI-6030-HD	RXI-8040-HD	
Inspection Height	160mm	160mm	300mm	300mm	300mm	400mm	
Inspection Width	240mm	400mm	400mm	500mm	600mm	800mm	
Best Inspection Sensitivity	SUS Ball $\Phi$ 0.3mm, SUS Wire $\Phi$ 0.2*2mm Glass Ball $\Phi$ 0.8mm, Ceramic Ball $\Phi$ 0.8mm		SUS Ball $\Phi$ 0.3mm, SUS Wire $\Phi$ 0.2*2mm Glass Ball $\Phi$ 0.8-1.0mm, Ceramic Ball $\Phi$ 0.8-1.0mm				
X-ray Tube	350W/80kV		350W/80-120kV				
Conveyor Parameter	Speed	10-90m/min,maximum 5kg 10-60m/min,maximum 15kg 10-40m/min,maximum 30kg					
	Width	256mm	414mm	414mm	514mm	614mm	814mm
	Max Height	160mm		300mm		400mm	
Operation	Full-color TFT 17" Touch Screen						
X-ray Leakage	<1 $\mu$ Sv/h (CE Standard)						
X-ray Protection	Protective Curtain						
IP for Inspection Tunnel	IP67/IP69K						
Product Management	Complete Product Log						
Parameter Adjustment	Auto Learning/Manual Setting						
Image Management	Auto Image Save/Print/Analyses						
Equipment Management	MTBF, MTTR, Error Logs, Error Analysis						
Product Storage	Max Storage of Product Parameter Can Reach 1000 Kinds						
Body Material	SUS304						
Purification	Easy To Wash						
Surface Dealing	Sand Blasted						
Cooling Method	Air Conditioned Cooling / Water Heat Exchanger						
Environmental, electrical, operating specifications							
Operating Temperature	0-40°C						
Relative Humidity	30-90%						
Power Supply	220V, AC, 50/60Hz						
O/S	Windows						
Communication Method	LAN Port, USB Port						

# RXI UHD SERIES



## FEATURES:

- AI-POWERED 0.1MM TDI-DETECTOR TECHNOLOGY
- ADAPTABLE RESOLUTION TECHNOLOGY (0.1 - 0.4 MM)
- VERY SMALL CONTAMINANT INSPECTION
- IP67 FOR INSPECTION TUNNEL
- IP66 / IP69K FULL BODY AVAILABLE
- VIRTUAL WEIGHING, COUNTING FUNCTION AND OTHER APPLICATIONS
- DATA TRANSFER AND REMOTE SUPPORT

## APPLICATION:

TOP-LEVEL SOLUTION FOR SMALLEST CONTAMINANT DETECTION. THE FIRST DETECTOR IN THE FIELD TO ADAPT THE IDEAL RESOLUTION (ADAPTABLE FROM 0.1 - 0.4 MM). AI-POWERED SOFTWARE FOR BEST IN CLASS DETECTION RESULTS. FULL RANGE OF PRODUCT INTEGRITY CHECKS INCLUDED. ALSO AVAILABLE IN IP69K TO WITHSTAND TOUGHEST CONDITIONS.

Specification							
Model	RXI-2416-UHD	RXI-4016-UHD	RXI-4030-UHD	RXI-5030-UHD	RXI-6030-UHD	RXI-8040-UHD	
Inspection Height	160mm	160mm	300mm	300mm	300mm	400mm	
Inspection Width	240mm	400mm	400mm	500mm	600mm	800mm	
Best Inspection Sensitivity	SUS Ball $\Phi$ 0.2mm, SUS Wire $\Phi$ 0.1*2mm Glass Ball $\Phi$ 0.8mm, Ceramic Ball $\Phi$ 0.8mm						
X-ray Tube	350W,480W						
Conveyor Parameter	Speed	10-90m/min,maximum5kg 10-60m/min,maximum 15kg 10-40m/min,maximum 30kg					
	Width	256mm	414mm	414mm	514mm	614mm	814mm
	Max Height	160mm		300mm		400mm	
Operation	Full-color TFT 17" Touch Screen						
X-ray Leakage	<1 $\mu$ Sv/h (CE Standard)						
X-ray Protection	Protective Curtain						
IP for Inspection Tunnel	IP67/IP69K						
Product Management	Complete Product Log						
Parameter Adjustment	Auto Learning/Manual Setting						
Image Management	Auto Image Save/Print/Analyses						
Equipment Management	MTBF, MTTR, Error Logs, Error Analysis						
Product Storage	Max Storage of Product Parameter Can Reach 1000 Kinds						
Body Material	SUS304						
Purification	Easy To Wash						
Surface Dealing	Sand Blasted						
Cooling Method	Air Conditioned Cooling / Water Heat Exchanger						
Environmental, electrical, operating specifications							
Operating Temperature	0-40°C						
Relative Humidity	30-90%						
Power Supply	220V, AC, 50/60Hz						
O/S	Windows						
Communication Method	LAN Port, USB Port						

DUAL ENERGY SERIES

# X-RAY INSPECTION SYSTEM

Much better performance especially for inspection of uneven products, fish and meat. It achieves the best available performance in detecting thin and low dense contaminants like e.g., bones and plastic.



# RXD MS SERIES

## FOR THIN CONTAMINANTS & BONES

### FEATURES:

- THIN CONTAMINANT DETECTION
- LOW DENSITY CONTAMINANT DETECTION
- BONE DETECTION
- UNEVEN PRODUCTS DETECTION
- DATA TRANSFER
- REMOTE SUPPORT



### APPLICATION:

POPULAR FOR INSPECTING (FROZEN) PRODUCTS IN FLOW BAGS LIKE VEGETABLES, FRENCH FRIES ETC.

Specification			
Model	RXD-MS-2416	RXD-MS-4016	RXD-MS-6030
Inspection Height	160mm	160mm	300mm
Inspection Width	240mm	400mm	600mm
Best Inspection Sensitivity	SUS Ball $\Phi$ 0.3mm, SUS Wire $\Phi$ 0.2*2mm Glass Ball $\Phi$ 0.8mm, Ceramic Ball $\Phi$ 0.8mm		
X-ray Tube	350W/80kV		350W/80-120kV
Conveyor Parameter	Speed	10-60m/min,maximum 5kg 10-60m/min,maximum 15kg 10-60m/min,maximum 30kg	
	Width	256	414mm
	Max Height	160	160mm
Operation	Full-color TFT 17" Touch Screen		
X-ray Leakage	<1 $\mu$ Sv/h (CE Standard)		
X-ray Protection	Protective Curtain		
IP for Inspection Tunnel	IP67		
Product Management	Complete Product Log		
Parameter Adjustment	Auto Learning/Manual Setting		
Image Management	Auto Image Save/Print/Analyses		
Equipment Management	MTBF, MTTR, Error Logs, Error Analysis		
Product Storage	Max Storage of Product Parameter Can Reach 1000 Kinds		
Body Material	SUS304		
Purification	Easy To Wash		
Surface Dealing	Sand Blasted		
Cooling Method	Air Conditioned Cooling		
Environmental, electrical, operating specifications			
Operating Temperature	0-40°C		
Relative Humidity	30-90%		
Power Supply	220V, AC, 50/60Hz		
O/S	Windows		
Communication Method	LAN Port, USB Port		

# RXD MS SERIES CHICKEN BONE DETECTOR

## FEATURES:

- BONES INSPECTION
- THIN CONTAMINANTS INSPECTION
- LOW DENSITY CONTAMINANTS INSPECTION
- IP69K AVAILABLE
- DATA TRANSFER
- REMOTE SUPPORT



## APPLICATION:

WIDER RANGE OF PRODUCTS INSPECTION, ESPECIALLY CHICKEN BONE DETECTION.

Specification		
Model	RXD-MS-2410C	RXD-MS-4010C One Lane/Double Lane
Inspection Height	100mm	100mm
Inspection Width	240mm	400mm
Best Inspection Sensitivity	SUS Ball $\Phi$ 0.3mm, SUS Wire $\Phi$ 0.2*2mm Glass Ball $\Phi$ 0.8mm, Ceramic Ball $\Phi$ 0.8mm	
X-ray Tube	350W/80kV	
Conveyor Parameter	Speed	10-40m/min
	Width	256mm
	Max Height	100mm
	Max Load	15kg
Operation	Full-color TFT 17" Touch Screen	
X-ray Leakage	<1 $\mu$ Sv/h (CE Standard)	
X-ray Protection	Protective Tunnel	
IP for Inspection Tunnel	IP67/IP69K	
Product Management	Complete Product Log	
Parameter Adjustment	Auto Learning/Manual Setting	
Image Management	Auto Image Save/Print/Analyses	
Equipment Management	MTBF, MTRR, Error Logs, Error Analysis	
Product Storage	Max Storage of Product Parameter Can Reach 1000 Kinds	
Body Material	SUS304	
Purification	Easy To Wash	
Surface Dealing	Sand Blasted	
Cooling Method	Air Conditioned Cooling / Water Heat Exchanger	
Environmental, electrical, operating specifications		
Operating Temperature	0-40°C	
Relative Humidity	30-90%	
Power Supply	220V, AC, 50/60Hz	
O/S	Windows	
Communication Method	LAN Port, USB Port	

# RXD MS SERIES

## FAT CONTENT ANALYSER

### FEATURES:

- FAT CONTENT ANALYSIS
- THIN CONTAMINANTS INSPECTION
- LOW DENSE CONTAMINANTS DETECTION (E.G. BONE FRAGMENTS)
- HYGIENIC DESIGN
- IP69K FULL BODY AVAILABLE
- DATA TRANSFER AND REMOTE SUPPORT



### APPLICATION:

FAT ANALYSIS AND BONE DETECTION FOR ALL CUTS OF MEAT, BULK GROUND MEAT AND PACKED MEAT (CARTONS, PLASTIC TRAYS, ETC.). AVAILABLE FOR FRESH AND FROZEN PRODUCTS.

Specification				
Model	RXD-MS-4010FA	RXD-MS-6030FA	RXD-MS-8040FA	
Inspection Height	160mm	300mm	400mm	
Inspection Width	400mm	600mm	800mm	
Best Inspection Sensitivity	SUS Ball $\Phi$ 0.3mm, SUS Wire $\Phi$ 0.2*2mm Glass Ball $\Phi$ 0.8mm, Ceramic Ball $\Phi$ 0.8mm	SUS Ball $\Phi$ 0.4mm, SUS Wire $\Phi$ 0.3*2mm Glass Ball $\Phi$ 1.0mm, Ceramic Ball $\Phi$ 1.0mm		
X-ray Tube	350W/100kV	500W/140kV		
Conveyor Parameter	Speed	10-60m/min		
	Maximum	15kg	30kg	
	Width	414mm	614mm	814mm
	Max Height	160mm	300mm	400mm
Fat precision detection synthesis	1%	3%		
Operation	Full-color TFT 17" Touch Screen			
X-ray Leakage	<1 $\mu$ Sv/h (CE Standard)			
X-ray Protection	Protective Tunnel			
Inspection Tunnel	IP67/IP69K			
Product Management	Complete Product Log			
Parameter Adjustment	Auto Learning/Manual Setting			
Image Management	Auto Image Save/Print/Analyses			
Equipment Management	MTBF, MTTR, Error Logs, Error Analysis			
Product Storage	Max Storage of Product Parameter Can Reach 1000 Kinds			
Body Material	SUS304			
Purification	Easy To Wash			
Surface Dealing	Sand Blasted			
Cooling Method	Air Conditioned Cooling / Water Heat Exchanger			
Environmental, electrical, operating specifications				
Operating Temperature	0-40°C			
Relative Humidity	30-90%			
Power Supply	220V, AC, 50/60Hz			
O/S	Windows			
Communication Method	LAN Port, USB Port			

# RXD MS SERIES

## FISH BONE DETECTOR

### FEATURES:

- FISH BONES INSPECTION
- AI-POWERED 0.1MM TDI-DETECTOR TECHNOLOGY
- TINY CONTAMINANTS INSPECTION
- UNIQUE DESIGN
- IP69K AVAILABLE
- DATA TRANSFER AND REMOTE SUPPORT



### APPLICATION:

WIDELY USED TO CHECK FISH BONES.

Specification		
Model	RXD-MS-2010F	RXD-MS-4010F
Inspection Height	100mm	100mm
Inspection Width	200mm	400mm
Best Inspection Sensitivity	Fish bone size: $\phi 0.2 \times 2\text{mm}$	
X-ray Tube	350W/80kV	
Conveyor Parameter	Speed	10-40m/min
	Width	256mm
	Max Height	100mm
Operation	Full-color TFT 17" Touch Screen	
X-ray Leakage	<1 $\mu\text{Sv/h}$ (CE Standard)	
X-ray Protection	Lead/Lead-free Protective Curtain	
IP for Inspection Tunnel	IP67/IP69K	
Product Management	Complete Product Log	
Parameter Adjustment	Auto Learning/Manual Setting	
Image Management	Auto Image Save/Print/Analyses	
Equipment Management	MTBF, MTTR, Error Logs, Error Analysis	
Product Storage	Max Storage of Product Parameter Can Reach 1000 Kinds	
Rejector	Alarm and Belt Stop	
Body Material	SUS304	
Purification	Easy To Wash	
Cooling Method	Air Conditioned Cooling / Water Heat Exchanger	
Environmental, electrical, operating specifications		
Operating Temperature	0-40°C	
Relative Humidity	30-90%	
Power Supply	220V, AC, 50/60Hz	
O/S	Windows	
Communication Method	LAN Port, USB Port	

# RXD MS SERIES

## PHOTON-COUNTING DETECTOR

### FEATURES:

- AI-POWERED PHOTON-COUNTING DETECTOR TECHNOLOGY
- BONES INSPECTION
- LOW DENSE CONTAMINANTS INSPECTION
- IP69K AVAILABLE
- DATA TRANSFER
- REMOTE SUPPORT



### APPLICATION:

WIDELY USED TO CHECK FISH BONES.

Specification		
Model	RXD-MS-4010CPH One Lane/Double Lane	RXD-MS-4010FPH FISH BONE
Inspection Height	100mm	
Inspection Width	400mm	
Best Inspection Sensitivity	SUS Ball $\Phi$ 0.2mm, SUS Wire $\Phi$ 0.2*2mm Glass Ball $\Phi$ 0.8mm, Ceramic Ball $\Phi$ 0.8mm	
X-ray Tube	500W/80kV	
Conveyor Parameter	Speed	10-60m/min
	Width	414mm
	Max Height	100mm
	Max Load	15kg
Operation	Full-color TFT 17" Touch Screen	
X-ray Leakage	<1 $\mu$ Sv/h (CE Standard)	
X-ray Protection	Protective Tunnel	
IP for Inspection Tunnel	IP69K	
Product Management	Complete Product Log	
Parameter Adjustment	Auto Learning/Manual Setting	
Image Management	Auto Image Save/Print/Analyses	
Equipment Management	MTBF, MTTR, Error Logs, Error Analysis	
Product Storage	Max Storage of Product Parameter Can Reach 1000 Kinds	
Body Material	SUS304	
Purification	Easy To Wash	
Surface Dealing	Sand Blasted	
Cooling Method	Air Conditioned Cooling / Water Heat Exchanger	
Environmental, electrical, operating specifications		
Operating Temperature	0-40°C	
Relative Humidity	30-90%	
Power Supply	220V, AC, 50/60Hz	
O/S	Windows	
Communication Method	LAN Port, USB Port	

FOR GLASS BOTTLES/CANS

## X-RAY INSPECTION SYSTEM

Inspection of metal and non-metal contaminants in cans, jars and bottles. It can achieve metal in metal and glass in glass inspection. High speed rejector system is always included. RaymanTech provides complete solutions in this challenging sector.



# SINGLE BEAM SERIES



## FEATURES:

- SMALL CONTAMINANTS INSPECTION
- FILLING LEVEL INSPECTION
- GLASS INSPECTION IN GLASS JARS
- METAL DETECTION IN METAL CANS
- DATA TRANSFER
- REMOTE SUPPORT



## APPLICATION:

WIDELY USED TO CHECK PRODUCTS IN PET BOTTLES.

INCLINED DOWNWARDS IS SPECIAL FOR INSPECTION OF FLUID AND SEMI-FLUID PRODUCTS.

Specification		
Model	RXP-1630SH (Inclined Upwards)	RXP-16300I (Inclined Downwards)
Inspection Height	280mm	
Inspection Width	160mm	
Best Inspection Sensitivity	Ferrous Ball $\Phi$ 0.3mm, Ferrous Wire $\Phi$ 0.3*2mm Glass Ball $\Phi$ 1.0mm, Ceramic Ball $\Phi$ 1.0mm	
X-ray Tube	480W/120kV	
Conveyor Parameter	Speed	10-120m/min
	Width	150mm
Operation	Full-color TFT 17" Touch Screen	
X-ray Leakage	<1 $\mu$ Sv/h (CE Standard)	
X-ray Protection	Closed Stainless Steel 304 Cover	
Product Management	Complete Product Log	
Parameter Adjustment	Auto Learning/Manual Setting	
Image Management	Auto Image Save/Print/Analyses	
Equipment Management	MTBF, MTTR, Error Logs, Error Analysis	
Product Storage	Max Storage of Product Parameter Can Reach 1000 Kinds	
Body Material	SUS304	
Surface Dealing	Sand Blasted	
Rejector	High Speed Push Exclusion	
Cooling Method	Air Conditioned Cooling	
Environmental, electrical, operating specifications		
Operating Temperature	0-40°C	
Relative Humidity	30-90% (no dew)	
Power Supply	220V, AC, 50/60Hz	
O/S	Windows	
Communication Method	LAN Port, USB Port	

# DOUBLE BEAM SERIES

## FEATURES:

- BETTER DETECTION RATIO FOR IRREGULAR CONTAMINANTS
- SMALL CONTAMINANT DETECTION
- FILLING LEVEL CONTROL
- GLASS INSPECTION IN GLASS JARS
- METAL INSPECTION IN METAL CANS
- DATA TRANSFER
- REMOTE SUPPORT



## APPLICATION:

WIDELY USED TO CHECK PRODUCTS IN CANS, JARS AND HOMOGENEOUS SHAPED GLASSES AND BOTTLES. DOUBLE CROSS VIEW ENHANCES DETECTION RESULTS SIGNIFICANTLY.

Specification	
Model	RXP-2025DH
Inspection Height	260mm
Inspection Width	160mm
Best Inspection Sensitivity	Ferrous Ball $\Phi$ 0.3mm, Ferrous Wire $\Phi$ 0.3*2mm Glass Ball $\Phi$ 1.0mm, Ceramic Ball $\Phi$ 1.0mm
X-ray Tube	480W/120kV
Conveyor Parameter	Speed
	Width
Operation	10-120m/min
X-ray Leakage	150mm
X-ray Protection	Full-color TFT 17" Touch Screen
Product Management	<1 $\mu$ Sv/h (CE Standard)
Parameter Adjustment	Protective Tunnel
Image Management	Complete Product Log
Equipment Management	Auto Learning/Manual Setting
Product Storage	Auto Image Save/Print/Analyses
Rejector	MTBF, MTTR, Error Logs, Error Analysis
Body Material	Max Storage of Product Parameter Can Reach 1000 Kinds
Surface Dealing	High Speed Push Exclusion
Cooling Method	SUS304
Environmental, electrical, operating specifications	
Operating Temperature	0-40°C
Relative Humidity	30-90% (no dew)
Power Supply	220V, AC, 50/60Hz
O/S	Windows
Communication Method	LAN Port, USB Port

# TRIPLE BEAM SERIES



## FEATURES:

- TRIPLE BEAMS, HIGH-END SOLUTION
- THREE SETS OF IMAGING SYSTEMS
- SMALL CONTAMINANT DETECTION
- FILLING LEVEL CONTROL
- GLASS INSPECTION IN GLASS JARS
- METAL INSPECTION IN METAL CANS
- DATA TRANSFER
- REMOTE SUPPORT



## APPLICATION:

WIDELY USED TO CHECK PRODUCTS IN CANS, JARS AND MORE COMPLEX SHAPED GLASSES AND BOTTLES. THIRD INSPECTION ANGLE DELIVERS HIGHEST DETECTION PERFORMANCE AND AVOIDS ANY BLIND SPOT.

Specification		
Model	RXP-2025SH PRO	RXP-2025SO
Inspection Height	260mm	
Inspection Width	160mm	
Best Inspection Sensitivity	Ferrous Ball $\Phi$ 0.3mm, Ferrous Wire $\Phi$ 0.3*2mm Glass Ball $\Phi$ 1.0mm, Ceramic Ball $\phi$ 1.0mm	
X-ray Tube	480W/120kV	
Conveyor Parameter	Speed	10-120m/min
	Width	150mm
Operation	Full-color TFT 17" Touch Screen	
X-ray Leakage	<1 $\mu$ Sv/h (CE Standard)	
X-ray Protection	Occlusive Protective Tunnel	
Product Management	Complete Product Log	
Parameter Adjustment	Auto Learning/Manual Setting	
Image Management	Auto Image Save/Print/Analyses	
Equipment Management	MTBF, MTTR, Error Logs, Error Analysis	
Product Storage	Max Storage of Product Parameter Can Reach 1000 Kinds	
Body Material	SUS304	
Surface Dealing	Sand Blasted	
Rejector	High Speed Push Exclusion	
Cooling Method	Air Conditioned Cooling	
Environmental, electrical, operating specifications		
Operating Temperature	0-40°C	
Relative Humidity	30-90% (no dew)	
Power Supply	220V, AC, 50/60Hz	
O/S	Windows	
Communication Method	LAN Port, USB Port	

# QUAD BEAM SERIES



## FEATURES:

- FOUR BEAMS, HIGH-END SOLUTION
- FOUR SETS OF IMAGING SYSTEMS
- SMALL CONTAMINANT DETECTION
- FILLING LEVEL CONTROL
- GLASS INSPECTION IN GLASS JARS
- METAL INSPECTION IN METAL CANS
- DATA TRANSFER
- REMOTE SUPPORT



## APPLICATION:

MAINLY USED IN HIGH-SPEED PRODUCTION LINES WHERE MORE THAN THREE INSPECTION-VIEWS ARE RECOMMENDED. LOW FOLLOWING COSTS THANKS TO SPLIT-BEAM TECHNOLOGY.

Specification		
Model	RXP-2025DH PRO	RXP-2025DH PRO MAX
Inspection Height		260mm
Inspection Width		160mm
Best Inspection Sensitivity	Ferrous Ball $\Phi$ 0.3mm, Ferrous Wire $\Phi$ 0.3*2mm Glass Ball $\Phi$ 1.0mm, Ceramic Ball $\Phi$ 1.0mm	
X-ray Tube	480W/120kV	
Conveyor Parameter	Speed	10-120m/min
	Width	150mm
Operation	Full-color TFT 17" Touch Screen	
X-ray Leakage	<1 $\mu$ Sv/h (CE Standard)	
X-ray Protection	Sides: Occlusive Protective Tunnel	
Product Management	Complete Product Log	
Parameter Adjustment	Auto Learning/Manual Setting	
Image Management	Auto Image Save/Print/Analyses	
Equipment Management	MTBF, MTTR, Error Logs, Error Analysis	
Product Storage	Max Storage of Product Parameter Can Reach 1000 Kinds	
Rejector	Alarm and Reject (High Speed Push Bar)	
Body Material	SUS304	
Surface Dealing	Sand Blasted	
Cooling Method	Air Conditioned Cooling	
Environmental, electrical, operating specifications		
Operating Temperature	0-40°C	
Relative Humidity	30-90% (no dew)	
Power Supply	220V, AC, 50/60Hz	
O/S	Windows	
Communication Method	LAN Port, USB Port	

# FIVE BEAM SERIES



## FEATURES:

- FIVE BEAMS, HIGH-END SOLUTION
- FIVE SETS OF IMAGING SYSTEMS
- SMALL CONTAMINANT DETECTION
- FILLING LEVEL CONTROL
- GLASS INSPECTION IN GLASS JARS
- METAL INSPECTION IN METAL CANS
- DATA TRANSFER
- REMOTE SUPPORT



## APPLICATION:

MAINLY USED IN HIGH-SPEED PRODUCTION LINES WHERE MORE THAN FOUR INSPECTION-VIEWS ARE RECOMMENDED. LOW FOLLOWING COSTS THANKS TO SPLIT-BEAM TECHNOLOGY.

Specification	
Model	RXP-2025SDH PRO MAX
Inspection Height	260mm
Inspection Width	160mm
Best Inspection Sensitivity	Ferrous Ball $\Phi$ 0.3mm, Ferrous Wire $\Phi$ 0.2*2mm Glass Ball $\Phi$ 1.0mm, Ceramic Ball $\phi$ 1.0mm
X-ray Tube	480W/120kV
Conveyor Parameter	Speed
	Width
Operation	10-120m/min 150mm
Operation	Full-color TFT 17" Touch Screen
X-ray Leakage	<1 $\mu$ Sv/h (CE Standard)
X-ray Protection	Sides: Occlusive Protective Tunnel
Product Management	Complete Product Log
Parameter Adjustment	Auto Learning/Manual Setting
Image Management	Auto Image Save/Print/Analyses
Equipment Management	MTBF, MTTR, Error Logs, Error Analysis
Product Storage	Max Storage of Product Parameter Can Reach 1000 Kinds
Rejector	Alarm and Reject (High Speed Push Bar)
Body Material	SUS304
Surface Dealing	Sand Blasted
Cooling Method	Air Conditioned Cooling
Environmental, electrical, operating specifications	
Operating Temperature	0-40°C
Relative Humidity	30-90% (no dew)
Power Supply	220V, AC, 50/60Hz
O/S	Windows
Communication Method	LAN Port, USB Port

FOR BULK PRODUCTS

# X-RAY INSPECTION SYSTEM

Inspection of metal, non-metal and organic contaminants mixed in raw materials. Special structure design, to achieve better sensitivity and minimum quantity of waste. Intelligent algorithms with special hardware, making it possible to detect organic contaminants, low density contaminants, shrinking, mildew, empty shells, half pieces, shell fragments, kernel, etc.

RaymanTech's Combo solution allows to check contaminants and color differences simultaneously by adding visual color sorter.



# RXI BHD SERIES

## FEATURES:

- SMALL CONTAMINANT INSPECTION
- ORGANIC CONTAMINANT INSPECTION
- LOW DENSITY CONTAMINANT INSPECTION
- SHAPE INSPECTION
- 48/72/96/144 AIR JET REJECTOR SYSTEM
- REMOTE SUPPORT



## APPLICATION:

WIDELY USED FOR PRE-PACKAGING PRODUCT LIKE NUTS, GRAINS, CORNS, SUNFLOWER SEEDS, BEANS, CASHEW, FROZEN FRUITS.

Specification			
Model	RXI-4010BHD	RXI-6010BHD	RXI-8010BHD
Inspection Height		100mm	
Inspection Width	400mm	600mm	800mm
Best Inspection Sensitivity	Sus Ball $\Phi$ 0.2mm, Sus Wire $\Phi$ 0.15*2mm Glass Ball $\Phi$ 0.8mm, Ceramic Ball $\Phi$ 0.8mm		
X-ray Tube	350W/80kV		500W/80kV
Conveyor Parameter	Speed	60-120m/min	
	Width	414mm	814mm
	Max Height	100mm	
	Max Load	25kg	30kg
Operation	Full-color TFT 17" Touch Screen		
X-ray Leakage	<1 $\mu$ Sv/h (CE Standard)		
X-ray Protection	Protective Tunnel		
IP for Inspection Tunnel	IP67		
Product Management	Complete Product Log		
Parameter Adjustment	Auto Learning/Manual Setting		
Image Management	Auto Image Save/Print/Analyses		
Equipment Management	MTBF, MTTR, Error Logs, Error Analysis		
Product Storage	Max Storage of Product Parameter Can Reach 1000 Kinds		
Body Material	SUS304		
Surface Dealing	Sand Blasted		
Purification	Easy to Wash		
Rejector	48 Tunnel Air Jet Rejector	72 Tunnel Air Jet Rejector	96/144 Tunnel Air Jet Rejector
Cooling Method	Air Conditioned Cooling		
Environmental, electrical, operating specifications			
Operating Temperature	0-40°C		
Relative Humidity	30-90%		
Power Supply	220V, AC, 50/60Hz		
O/S	Windows		
Communication Method	LAN Port, USB Port		

# RXI BHD VI COMBO SERIES



## FEATURES:

- TINY CONTAMINANT DETECTION
- COLOR SORTING
- SHAPE DETECTION
- ORGANIC CONTAMINANT DETECTION
- 48/72 AIR JET REJECTOR SYSTEM
- REMOTE SUPPORT



## APPLICATION:

COMBO BULK INSPECTION MACHINE FOR CONTAMINANTS INSPECTION, COLOR SORTING AND SHAPE RECOGNITION AT THE SAME TIME.

Specification		
Model	RXI-4010BHD VI	RXI-6010BHD VI
Inspection Height	100mm	
Inspection Width	400mm	600mm
Best Inspection Sensitivity	SUS Ball $\Phi$ 0.2mm, SUS Wire $\Phi$ 0.15*2mm Glass Ball $\Phi$ 0.8mm, Ceramic Ball $\Phi$ 0.8mm	
X-ray Tube	350W/80kV	
Conveyor Parameter	Speed	60-120m/min
	Width	414mm
	Max Height	100mm
	Max Load	25kg
Operation	Full-color TFT 17" Touch Screen	
X-ray Leakage	<1 $\mu$ Sv/h (CE Standard)	
X-ray Protection	Protective Tunnel	
Product Management	Complete Product Log	
Parameter Adjustment	Auto Learning/Manual Setting	
Image Management	Auto Image Save/Print/Analyses	
Equipment Management	MTBF, MTTR, Error Logs, Error Analysis	
Product Storage	Max Storage of Product Parameter Can Reach 1000 Kinds	
Rejector	48 Tunnel Air Jet Rejector	72 Tunnel Air Jet Rejector
Body Material	SUS304	
Surface Dealing	Sand Blasted	
Cooling Method	Air Conditioned Cooling	
Environmental, electrical, operating specifications		
Operating Temperature	0-40°C	
Relative Humidity	30-90%	
Power Supply	220V, AC, 50/60Hz	
O/S	Windows	
Communication Method	LAN Port, USB Port	

FOR SAUCE AND LIQUID

# X-RAY INSPECTION SYSTEM

Inspection of metal and non-metal contaminants mixed in fluid and semi-fluid products including sauce, dressings, meatmix etc. High sensitivity and stability. Special design to ensure it can survive in wet environment. Easy assembling pipe system to ensure it can be taken off for cleaning.



# RXI-HDP SERIES



## FEATURES:

- HIGH SENSITIVITY AND STABILITY
- HYGIENIC DESIGN
- HIGH IP PROTECTION
- SPECIAL DESIGN, EASY TO CLEAN
- DATA TRANSFER
- REMOTE SUPPORT



## APPLICATION:

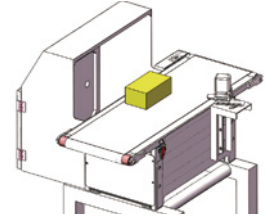
WIDELY USED TO INSPECT FLUID AND SEMI-FLUID PRODUCTS.

Specification	
Model	RXI-2410HDP
Pipe Diameter	50mm, 63mm, 80mm
Best Inspection Sensitivity	Sus Ball $\Phi$ 0.3mm, Sus Wire $\Phi$ 0.3*2mm Glass Ball $\Phi$ 1.0mm, Ceramic Ball $\Phi$ 1.0mm
X-ray Tube	210W/80kV
Operation	Full-color TFT 17" Touch Screen
X-ray Leakage	<1 $\mu$ Sv/h (CE Standard)
X-ray Protection	Protective Tunnel
IP for Inspection Tunnel	IP67/69K
Product Management	Complete Product Log
Parameter Adjustment	Auto Learning/Manual Setting
Image Management	Auto Image Save/Print/Analyses
Equipment Management	MTBF, MTTR, Error Logs, Error Analysis
Product Storage	Max Storage of Product Parameter Can Reach 1000 Kinds
Body Material	SUS304
Surface Dealing	Sand Blasted
Purification	Easy to Wash
Cooling Method	Air Conditioned Cooling/Water-heat Exchanger
Environmental, electrical, operating specifications	
Operating Temperature	0-40°C
Relative Humidity	30-90% (non-condensing)
Power Supply	220V, AC, 50/60Hz
O/S	Windows
Communication Method	LAN Port, USB Port

# REJECTORS

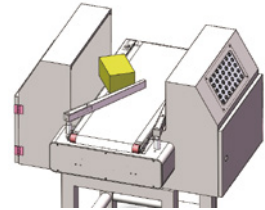
## AIR JET REJECTOR

Product weight under 300 grams. Conveyor speed 50-90 m/min, suitable for high speed inspection for sachets, pouches, boxes and cartons.



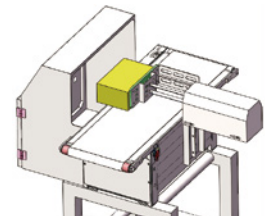
## FLIPPER REJECTOR

Product weight under 2.5 kg, thickness over 10 mm.  
Conveyor speed 50-60 m/min, suitable for high speed inspection for pouches, boxes, etc.



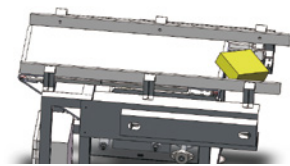
## PUSHER REJECTOR

Product weight under 5 kg, thickness over 10 mm.  
Conveyor speed 30-40 m/min, suitable for pouches, boxes, cartons, cans.



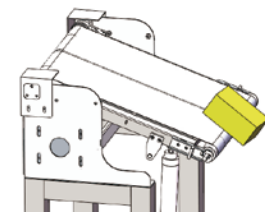
## PNEUMATIC RETRACTING

Pneumatic retracting band type, double lane available, height less than 80mm, suitable for small packed and non-packed products. Often used for sticky products like fish or chicken fillet.



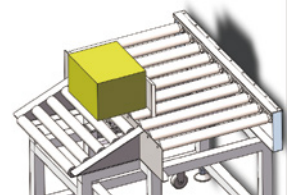
## DROP OUT REJECTOR

Product weight under 3 kg. Conveyor speed 30-40 m/min, ideal for thin products and sachets. A back-up solution for products that are not suitable for flipper rejector or air jet rejector.



## HEAVY PUSHER REJECTOR

Heavy pusher rejector, product weight under 35 kg. Usually used for big bags, buckets, and cartons.



# SERVICE & SUPPORT

## Equipment Maintenance:

Being familiar with the working principle of the equipment, understanding the way each part of the equipment works and proper maintenance can extend the life cycle of your equipment and reduce the failure rate.

The general common maintenance contents are the following:

1. Checking the appearance and operation of the functional components
2. Cleaning the complete system
3. Replacing of consumables / accessories
4. Validation of the expected detection results
5. Maintenance protocol according IFS and HACCP guidelines

RaymanTech is running technologically advanced testing centers with a construction area of several thousand square meters, in which RaymanTech's full range of inspection systems are placed.

In order to provide customers with suitable inspection systems and solutions, RaymanTech provides a series of testing and evaluation services, including:

**Application test:** You can provide your product sample to RaymanTech for application test, and RaymanTech will provide you with test videos, pictures, and test reports to help you make a better decision when evaluating different inspection systems.

**Online test:** You can also watch the whole process of the application test in real time to learn more about the RaymanTech inspection systems in detail.

**Technical consultation:** If you have any questions, RaymanTech professionals will be happy to answer and support you.

**Solution:** RaymanTech will provide you with professional solutions according to your requirements.

To ensure that your equipment and systems are always in good working order, RaymanTech provides professional service and support, including: 24/7 online + call service.

Technical teams and specialists in your country offer technical service, spare part delivery and specific trainings on the machines. Please ask your personal RaymanTech specialist for further information.

**PRODUCT  
TEST**

**DEMO  
TRAINING**

**SERVICE  
SUPPORT**



WHOLE CHAIN INSPECTION SOLUTION



Isiray Europe GmbH  
Gellertstraße 24  
22301 Hamburg  
Germany  
Tel: +49 (0) 40 80811 465  
[contact@raymantech.de](mailto:contact@raymantech.de)  
[www.raymantech.de](http://www.raymantech.de)