

> PRODUCT SUPERIORITY



Integrated design

Multispectral detection is integrated in the same transmission device and reject device, which is powerful and occupies less space, greatly reducing the installation space requirements.



Intelligent algorithm

AI intelligent algorithm is independently researched and developed by Techik. It can simulate human intelligence to analyze images, capture complex features of materials and identify subtle differences. Effectively improve the detection accuracy and reduce the false detection rate.



Solve extreme problems

Multi-spectrum and AI algorithm support, break through the traditional X-ray detection problems, even leaves, plastic film, paper and other low-density foreign bodies can also be effectively identified.



Super efficiency sorting

Taking peanut as an example, it can detect and sorting out the bud, mold, half grain, cigarette butt, shell, stone and other internal and external defects and foreign bodies and impurities. One machine can solve multiple problems, help to achieve high-speed, high-quality production line.

An integrated solution that integrates X-ray, color vision and other detection. Based on the internal shape, appearance color and other different dimensions, to achieve color, shape, material, foreign material and other comprehensive detection. For the quality and safety of nuts, seeds, frozen vegetables and other products escort.

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> PRACTICAL CASE

















FROSTED KERNEL

MILDEW

SHORT BUD

BUD HEAD

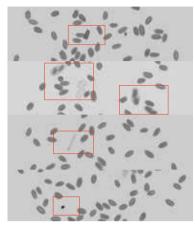
BROKEN PEANUTS

SHELLED PEANUT

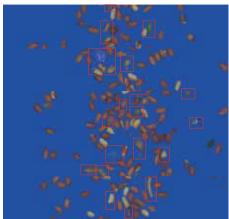
THIN PLASTIC

LINEAR OBJECT

LEAVES







More application areas and solutions:

Bulk materials: peanuts, sunflower seeds, pumpkin seeds, walnuts, etc.; Impurities detection: metal, thin glass, insects, stones, hard plastics, cigarette butts, plastic film, paper, etc.; Product surface detection: insect, mildew, stain, broken skin, etc.; Frozen vegetables: broccoli, carrot slices, pea pods, spinach, rape, etc. Impurity detection: metal, stone, glass, soil, snail shell, etc.; Quality inspection: disease spot, rot, brown spot, etc.

X-RAY & COLOR VISION ALL-IN-ONE TXR-BK3 SERIES			
Туре		BK3-P1-4010-D2	BK3-P1-4010-DE
X-ray source		MAX.80KV 350W	
X-ray detectors		Standard 0.4	Dual energy 0.4
Color vision sensors		RGB Full color CCD camera	
Through width(mm)		400	
Height throug(mm)		100	
Speed of conveyor belt (m/min)		10~90m/min	
Detector sensitivity	SUS304 ball (φ)	0.3mm	
	SUS304 wire	0.2×2mm	
	Glass ball (φ)	1.0mm	
	Ceramic ball (φ)	1.0n	nm
Power supply		2kVA (220V AC single-phase 50Hz)	
Weight (KG)		850	
Raw material status		Bulk material	
IP Grade		Transmission part IP66, transmission part external IP65	
Air Pressure Request		0.8Mpa	
Safety index		≤1μSv/h, prevent X-ray leakage through safety protection device	
Working environment		Temperature -10~40°C, humidity 30~90%, no condensation	
Remove method		48/72 high speed air rejectors	
Cooling mode		Industrial Air Conditioners	
OPTIONAL CONFIGURATION			
Intelligent identification		Optional X - ray + color vision intelligent recognition algorithm	
infrared camera		InGaAs infrared camera is optional	
Conveyor belt material		Optional according to different types of materials, food grade surface (smooth/convex) belt	
External interface		"Tcp-ip /Modbus" communication can be added	
Display language		Multiple languages such as Chinese and English are optional	

Note: 1. The above mentioned detection accuracy is in the state of unload machine, and the actual detection accuracy shall be subject to the accuracy of the measured product.

- 2. The above machine specifications are standard specifications, other sizes and special requirements can be customized.
- 3. The products are subject to change without prior notice. Please refer to the sales representative for details.