研新
new visual tech





Create、share、cooperate、win-win

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Food and drug visual inspection solution provider

To provide customers with intelligent, efficient and professional vision solutions

Food packaging testing
fruit and vegetable size sorting
pharmaceutical preparation testing
visual appearance recognition



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about us

Ningbo Yanxin Industrial Technology Co., Ltd. is a high-tech enterprise with machine vision Al detection technology and high-speed motion control technology as the core. The company integrates design, researchand development, production, sales and service. The founding team is from the Botu technical team of the optical Laboratory of the University of Electronic Science and Technology of China. He has accumulated rich industry experience in the field of production and packaging testing of food, beverage and pharmaceutical industries.
In addition, early customers also covered military, automotive, home appliances, machining, daily chemical, new material film, 3C electronics and other industries.

Yanxin Technology is one of the first member units of Ningbo Intelligent Manufacturing Association, and was selected as one of the top ten industrial engineering service companies in Ningbo Intelligent Manufacturing City, one of the intelligent manufacturing enterprise diagnostic service companies recommended by the Ningbo Economic and Information Bureau, Ningbo excellent entrepreneurship and innovation project, Ningbo Zhangzhou District enterprise Engineering (technology) center, Ningbo high-tech enterprises.

With Ningbo as the research and development and production center, Yanxin Technology has quickly opened the market and its sales network has covered the whole country. The industry covers food, beverage, medicine, daily chemical and so on. Customers include Yanjin Shop, Midoqi, New Hope, Helu Snow, Bai En, China Resources Double He Pharmaceutical, Nanjing Housheng Pharmaceutical, South Korea Koshi Manjia, Baique Ling and other well-known enterprises at home and abroad.

发展历程
DEVELOPMENT HISTORY

2024 year
Products are widely used in food, beverage, medicine and other industries, and in Henan, Shandong, Sichuan set up offices.

2023 year
A number of food and drug testing equipment have been successfully applied to leading factories in the industry and have been recognized by industry peers.

2022 year
Redefine food and drug standards AI visual testing equipment research and development and production

2021 year
It has more than 20 "computer software copyright" certificates and patents

2020 year
Rated as a national high-tech enterprise

2019 year
Awarded as Ningbo science and technology innovation enterprise

2018 year
Selected as Ningbo Innovation team, Ningbo intelligent manufacturing Engineering Service Company

2017 year
In response to the national "Made in China 2025" strategy, in order to serve the intelligent manufacturing field, Ningbo Yanxin Industrial Technology Co., Ltd. was prepared and established

2016 year
Became the first founding member of Ningbo Intelligent Manufacturing Association (the first intelligent manufacturing association in China).

2013 year
Introduced by Ningbo Municipal government, the team settled in Ningbo and established Momi Innovation Factory, Tiangong Intelligent Manufacturing Incubator and other technology enterprises;

2011 year
The young doctors in the laboratory of the University of Electronic Science and Technology of China set up an entrepreneurial team, began to operate as a company, and developed dozens of best-selling products in the market.

核心技术
CORE TECHNOLOGY



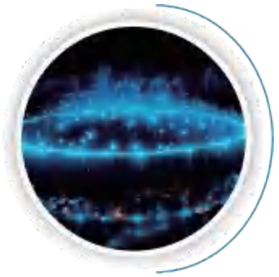
· image processing techniques

Refers to the complex calculation and processing of image data. How much the team worked on the image processing Years of technical accumulation, with a number of patents and soft works.



· Precision machinery design

The perfect combination of precision machinery and stable control, and a number of achievements in this field Technological achievements, in the domestic leading position.



· optical technology

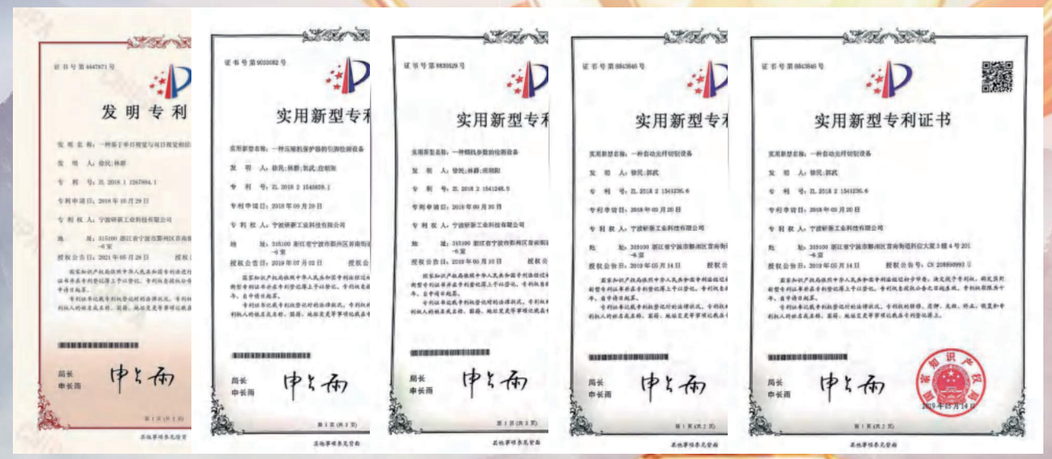
It is the most important technique for apparent detection. Team of more than 10 senior from first-class universities Optical engineer, has deep technical accumulation, and technical advantages.

资质荣誉
QUALIFICATIONS









Rack type date checker



The device captures the picture through the image sensor, and after preprocessing, feature extraction, identification and analysis, makes decisions and controls the mechanical action to achieve efficient and accurate detection tasks, reduce manual dependence, and improve production efficiency and quality control.

Application scenarios

The use scenario of this equipment for food packaging line， beverage line, daily chemical line, drug assembly line, drug packaging line, dairy production line, paging machine and other production line back-end installation.

Used in food, daily chemical, beverage, pharmaceutical industrdate detection, can detect laser code, inkjet code, steel code, thermal transfer code coding quality problems.

Testing content

Date leakage printing, character incomplete, character deformation, shallow printing, printing position deviation from the specified area, etc.

Equipment characteristic

Limit speed: 800 pieces/min (depending on the specific detection scenario)
Detection method: online detection
Detection type: inkjet date (with contrast)
Elimination method: selected according to the actual situation (push rod, air blowing, shifting rod, etc.)
Body material: 304 stainless steel





Date detection of multiple control systems



Through real-time acquisition of inkjet images, the equipment uses advanced algorithms to quickly identify the clarity and integrity of the inkjet code, so as to achieve efficient and accurate detection to ensure that each production line product inkjet code qualified.

Application scenarios

The equipment can be installed in the bag feeding machine, pillow packaging machine, vertical packaging machine, horizontal packaging machine, roll mode packaging machine.Date detection equipment used in food, daily chemical, beverage and pharmaceutical industries can detect poor coding of laser code, inkjet code, steel code and thermal transfer code.

One visual date detector can be used with multiple packaging machines.

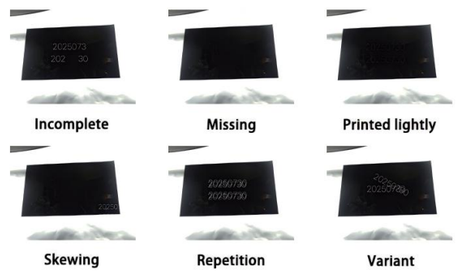
Testing content

Date leakage printing, character incomplete, character deformation, shallow printing, printing position deviation from the specified area, etc.

Equipment characteristic

Limit speed: 400 pieces/min (depending on the specific detection scenario)
Detection method: online detection
Detection type: inkjet date (with contrast)
Elimination method: selected according to the actual situation (push rod, air blowing, shifting rod, etc.)
Body material: 304 stainless steel





Dough appearance defect inspection machine



This equipment is specially designed for the production line of instant food products. It integrates high-resolution cameras and deep learning vision systems to conduct high-speed and all-round scanning of the packaging of rice noodles, vermicelli, and flatbread after plastic sealing. It accurately detects the sealing condition of the packaging, the shape of the contents, surface defects and printing flaws, ensuring the quality of the products leaving the factory and the brand image.

Application scenarios

It is applicable to the online inspection of the plastic-sealed packaging of various fast food products, including: the packaging appearance foreign matter defect detection of bagged/bowled rice noodles, vermicelli and instant noodle sheets.



Testing content

Appearance inspection:

Mosquito detection on the dough surface,

black spot detection, hair detection,

foreign object detection,

area and roundness detection, etc.



Equipment characteristic

Limit speed: 160 pieces/min (depending on the specific detection scenario)
Detection method: online detection
Detection type: The product can be compatible with a variety of products
Elimina tion method: selected according to the actual situation (push rod, air blowing, shifting rod, etc.)
Body material: 304 stainless steel

Product appearance 360°inspection machine



The device integrates multiple groups of surround high-definition lenses and intelligent image analysis system to conduct all-round rapid scanning of products, accurately identify surface defects, black spot hair, uneven color appearance defects, and efficiently guarantee product quality.

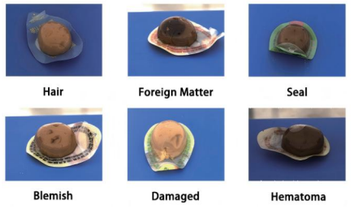


Application scenarios

It is suitable for detecting the sealing of small snack packaging bags, detecting defects in packaged eggs, inspecting the appearance of medicines, and testing the consistency of the front and back as well as the top and bottom of snack packaging bags.

Testing content

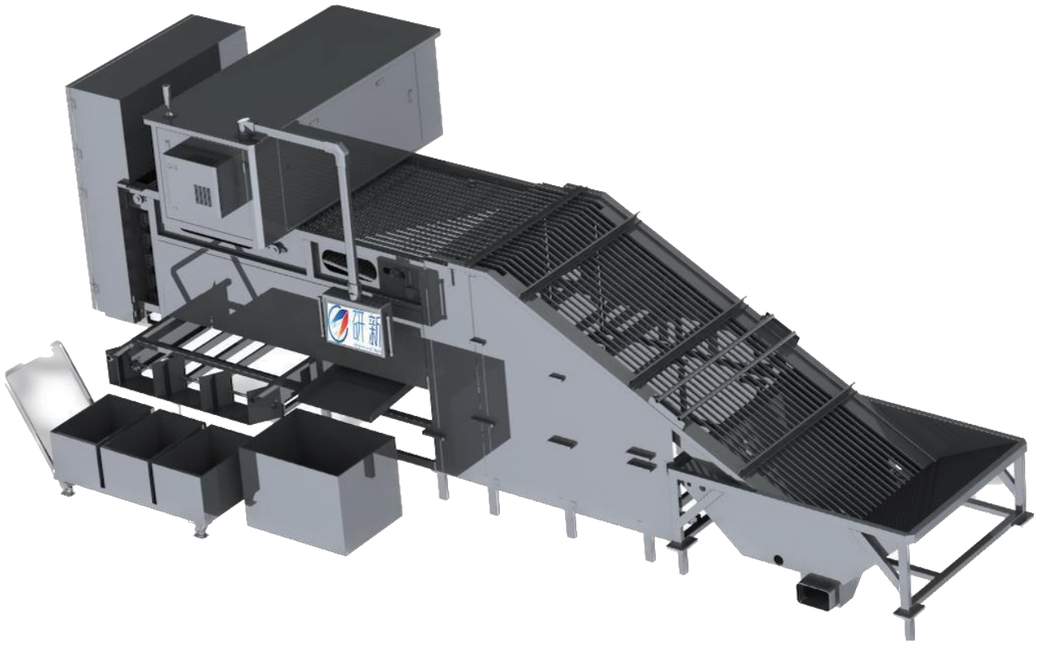
Defect inspection: Mosquito detection, black spot detection, hair detection, foreign object detection
Leakage inspection: Empty package, leakage, bulging package, deoxygenant color change
Same side and same direction: Package connection, folded package rejection, material jam rejection, head and tail orientation deviation, consistent front and back flipping
Blister inspection: Drug tablet defect, surface stains, missing grains/overfilling, capsule deformation, etc.



Equipment characteristic

Limit speed: 800 pieces/min (depending on the specific detection scenario)
Detection method: online detection
Detection type: The product can be compatible with a variety of products
Elimination method: selected according to the actual situation (push rod, air blowing, shifting rod, etc.)
Body material: 304 stainless steel

Small fruit and egg visual screening machine



The white egg visual selection machine adopts a high-resolution optical imaging system with multi-angle light source to capture egg images in an all-round way, and accurately identifies flaws such as cracks, stains, and deformities through self-developed AI algorithms to quickly screen out high-quality white eggs.

Application scenarios

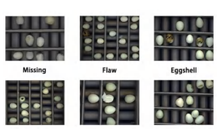
Suitable for white eggs, quail eggs appearance defect detection and product size classification. Suitable for egg processing snack manufacturers.

Testing content



Appearance defect detection: cracked egg, yellow leak, broken skin, malformed egg, crushed material, eggshell, black spot detection

Size classification: Size classification



Equipment characteristic

Detection speed: 1.8 tons/hour (depending on the specific detection content)
Detection method: multi-channel bulk material detection
Product management: Sorting of qualified products and defective products
Elimination method: Multiple air purge
Body material: 304 stainless steel

Sealing with material impurity inspection machine



This equipment is equipped with a high-resolution industrial camera and a multi-angle lighting imaging system, specifically designed to detect whether there are any defects such as material entrapment or poor sealing in the sealing area of various packaging bags. Through intelligent image algorithms, it accurately identifies tiny foreign objects, ensuring the integrity of packaging seals and product safety.

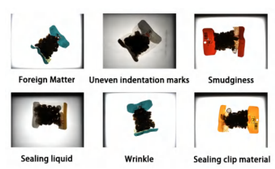
Application scenarios

It is applicable to the online detection of various flexible packaging bags in the food, daily chemical and other industries, such as the sealing quality detection of snack bags, seasoning bags and other products.



Testing content

Material inspection: Identifying particles, liquids, etc. that are trapped at the sealing area
Sealing performance inspection: Detecting defects such as wrinkles and uneven indentation at the sealing area
Foreign matter detection: Discovering foreign impurities such as hairs and fibers that are mixed in the sealing area
Shape inspection: Identifying abnormal shapes, skewness, and other appearance issues at the sealing area



Equipment characteristic

Limit speed: 200 pieces/min (depending on the specific detection scenario)
Detection method: online detection
Detection type: The product can be compatible with a variety of products
Elimination method: selected according to the actual situation (push rod, airblowing, shifting rod, etc.)
Body material: 304 stainless steel

Double bag overlap with date checker



Double paging inkjet detection machine, first use precision design to separate products to avoid double. After coding, through the intelligent vision system, high-speed scanning identification of coding clarity, integrity, accurate detection, one step in place.

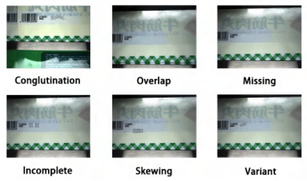
Application scenarios

Suitable for testing food, printing, packaging, pharmaceutical, tobacco and chemical enterprises on packaging boxes, food bag manufacturers.



Testing content

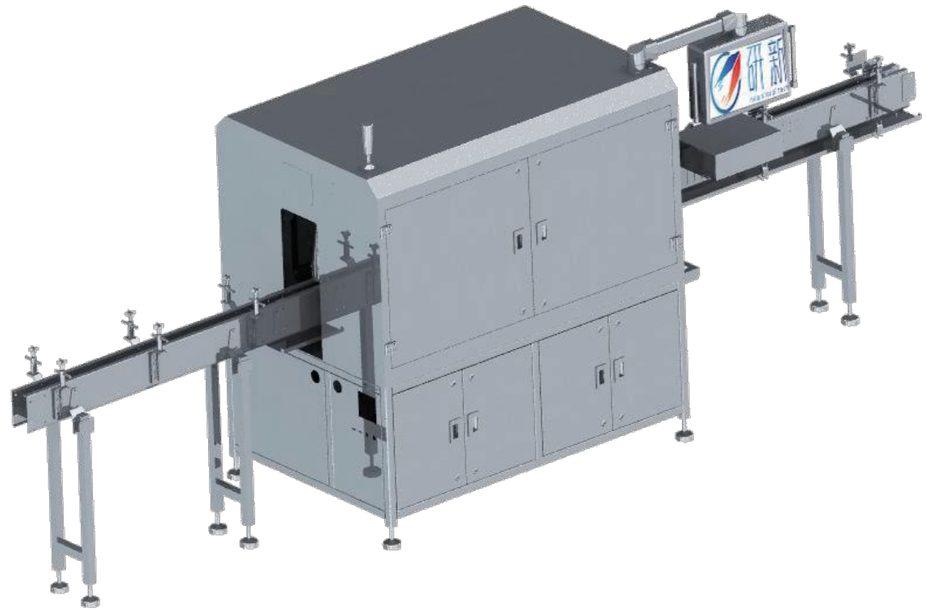
Automatic paging, and detection of product reexpansion, expansion;
Automatically remove the products that are not qualified for reprinting, linking and marking content
Font leakage, character incomplete, deformation, double code, shallow printing, printing position deviation from the specified area, etc.



Equipment characteristic

Limit speed: 800 pieces/min (depending on the specific detection scenario)
Detection method: online detection
Detection type: The product can be compatible with a variety of products
Elimina tion method:Air knife culling
Body material: 304 stainless steel

Glass bottle appearance testing machine



Glass bottle appearance detection machine integrates multiple sets of high-definition cameras and special light sources to capture all-round bottle images. With AI image recognition technology, it can quickly detect bottle mouth defects, bottle wall bubbles, scratches, etc., and efficiently protect the quality of glass bottles.

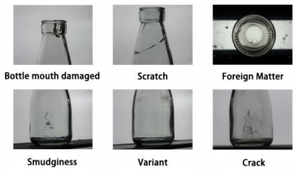
Application scenarios



Suitable for testing beverage bottles, liquor, beer, rice wine, red wine and other bottles, cosmetics bottles and other production links, for product packaging before the quality inspection.

Testing content

1. Detect scratches, cracks, bubbles, deformation and other defects on the surface of glass bottles.
2. Test the glass bottle size to ensure that it meets the standard.
3. Test the flatness, sealing performance, damage and deformation of the bottle mouth.
4. Test bottle color, transparency, pattern and impurities.
5. Test the flatness of the bottom of the bottle, whether there is foreign matter and leakage



Equipment characteristic

Limit speed: 800 pieces/min (depending on the specific detection scenario)
Detection method: online detection
Detection type: The product can be compatible with a variety of products
Elimination method: selection according to the actual situation (push rod, servo, swing rod, etc.)
Body material: 304 stainless steel

Screw cap liquid level check machine



High distortion cap liquid level visual detector, with high precision camera and professional light source, rapid imaging of the bottle body. Use advanced algorithms to accurately identify the height, tilt, and liquid level of the bottle cap, and efficiently eliminate unqualified products.

Application scenarios

Suitable for testing cans, PET bottles, dairy production line, wine and beverage production line, Xilin bottle production line, cosmetics manufacturers, etc.

The equipment can be directly installed on the production line, occupying small space and easy maintenance.

Testing content

Liquid level detection: high/low level detection
Screw cap detection: high cap, crooked cap, no cap detection

Equipment characteristic

Limit speed: 1500 pieces/min (depending on the specific detection scenario)
Detection method: online detection
Detection type: The product can be compatible with a variety of products
Elimination method: selection according to the actual situation (push rod, servo, swing rod, etc.)
Body material: 304 stainless steel





Belt conveyor label date checker



Belt labeling inkjet detection machine, through the belt conveyor products, high-speed camera with intelligent algorithm, instant capture identify label position, flatness, inkjet integrity, to ensure product compliance.

Application scenarios

Suitable for testing cans, PET bottles, dairy production line, wine and beverage production line, Xilin bottle production line, cosmetics manufacturers, etc.

The equipment can be directly installed on the production line, occupying small space and easy maintenance.

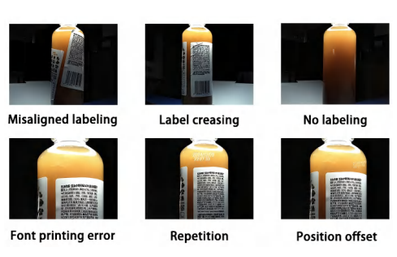
Testing content

Inkjet detection content: font leakage, character incomplete, deformation, double code, shallow printing brush, printing position deviation, etc.
Labeling detection content: labeling none, high-low labeling, labeling offset specified area.

Equipment characteristic

Limit speed: 800 pieces/min (depending on the specific detection scenario)
Detection method: online detection
Detection type: The product can be compatible with a variety of products
Elimination method: selection according to the actual situation (push rod, servo, swing rod, etc.)
Body material: 304 stainless steel





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Our founder team originated from the "Modern photoelectric measurement and Control and Instrument Laboratory" of the School of Optoelectronic Science and Engineering of UEsTc. since itsinception, the company has continued to work closely with colleges and laboratories, always focusing onphotoelectric detection and constantly moving forward on the road of technological exploration.

In the process of development, we uphold the concept of openness and cooperation, activelyestablish in-depth cooperation relations with scientific research institutes, make use of each other'stechnological advantages to achieve resource complementarity, and promote the exponential growth otour own technological strength. We have cooperated with Chongging institute of Green and intelligentTechnology of the Chinese Academy of Sciences and Ningbo institute of Materials Technology andEngineering of the Chinese Academy of Sciences, actively responded to the call of national policiessuccessfully promoted the transformation of scientific and technological achievements into actuaproductive forces, and extensively served the society.

Today, the company's strategic focus is clear, and it has fully shifted to the research and developmentand production of standard visual inspection products, and deeply cultivates the food, beverage andpharmaceutical industries to create high-quality products that meet the needs of the industry. With excellenttechnology and reliable product quality, we have reached long-term cooperation with many leading enterprises inthe industry, won wide recognition and trust, and gradually become the industry model in the field of visualinspection.