

We always pay attention to the global SMT electronic assemblies, quickly collect new components, update and process new components required by customers every week, and obtain images from the cloud and update the database every month. We have repeatedly tested more than 7,000 different material devices, and the global coverage of components exceeds 99.2%.

- ◆ Powerful database collects the images of X ray counter materials through the world, already collected 15,000 materials data
- ◆ Including 60 million testing images, 700,000 core images, software updated only after all the testing images all passed through.
- ◆ 8.6 million classification training images of data augmentation, each week 160,000 pcs images increased, classification training & testing time is around 48 hours.
- ◆ Counting automatically, fully automatic calculation, easy to operate, no training needed.
- ◆ Can count moisture-proof bag packaged components, bulk materials, JEDEC TRAY etc.

X-Ray Tube Parameters

Tube Type	Reflection sealed micro focus X-Ray source
Voltage Range	30-80KV
Current Range	200-700 μ A /0-1000 μ A
Max Output Power	56 W
Microfocus Size	33~50 μ m /100 μ m

Flat Panel Detector Parameters

Flat Panel Type	Amorphous Silicon Flat Panel Detector
Pixel Matrix	3072×3072
Field of View	430mm×430mm
Resolution	139 μ m
Frame Rate (1×1)	2fps
A/D Conversion Bit	16bits

XC1000

Offline X-Ray Counter



Equipment Introduction

XC1000 is an offline X-ray counting machine, stage moves in/out automatically, easy for reel pickup. The stage is automatic induction, anti-pinch hands, Ergonomics design, the operator sits to operate, easy to watch counter screen & relaxed, small size unit, with wheels for easy relocation, AI function algorithm software, can count out the reels quickly to improve the working efficiency.

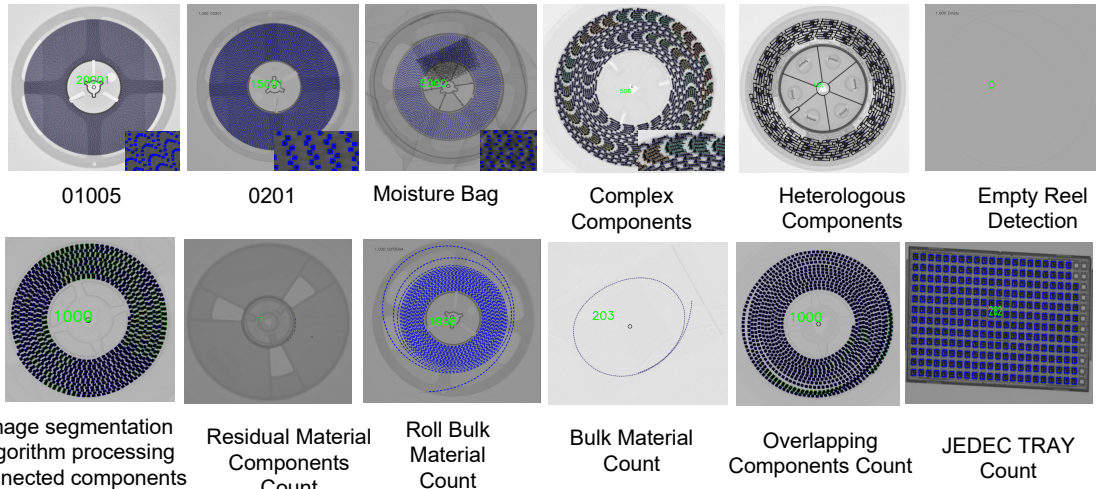
Application Advantage

- ◆ Erro-proof function for labeling, automatic recognize each reel by induction function, take any reel the printer will print the corresponding label.
- ◆ Docking with MES / ERP / WMS system, exchange data in real-time, counting result uploading automatically.
- ◆ Compared to old counter, no need to unpack or transfer the reels
- ◆ Suitable for all SMD components, size above 01005
- ◆ Counting accuracy up to 99.99%
- ◆ 7" -15" Tape Reel
- ◆ Innovative detection environment and algorithm with AI function.
- ◆ Barcode & QR code recognizable
- ◆ Automatic barcode reading function is available with 4 cameras (Optional)
- ◆ 1 reel or 4 reels can be recognized automatically

Equipment Performance Parameters (XC1000)

Reel Size	7" -15" Tape Reel
Reel Height	5-80mm
Min Component	01005
System Docking	MES/ERP/WMS etc
Label Printing	TSC industrial printer
Input Power	220V 10A 50-60HZ
Control System	WIN10 64位
Dimension	L800mmxW1280mmxH2200
Net weight	790KG

Application Cases



Radiation Safety



Safety Considerations for Operators

◆ Exemption by the Ministry of Ecological Environment of the People's Republic of China

This series of products have obtained the certificate of exemption from the registration of radioisotope and radiation devices issued by the Ministry of ecological environment, with the filing number of [yue fu Huo Bei [2020] No. 0035]. The radiation device using the product of our company can be exempted from the radiation safety license.

◆ Design of Ultra Micro Leakage

According to the basic standard for protection against ionizing radiation and safety of radiation sources (GB 18871-2002), the exemption standard of radiation protection is $\leq 1\mu\text{sv/h}$, and the design standard of this product is $\leq 0.5\mu\text{sv/h}$. The radiation amount received by the operator within one year is controlled within 0.18mSv, equivalent to 1 / 10 of the radiation amount in the natural environment

◆ Safety Element with Multiple Protection

It is equipped with Omron safety control element, triple safety protection sensor and direct connection control mode with radiation source, which fully conforms to CE specification and semi S2 / S8 specification of semiconductor industry.

Radiation Testing Sites:



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