XC1000
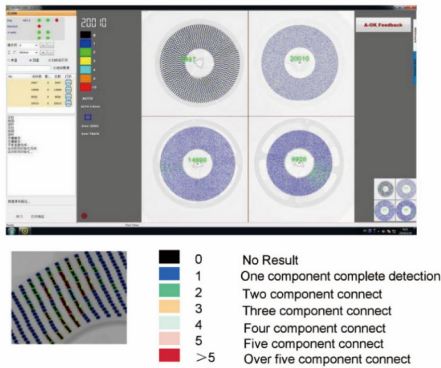
Application Advantage

◆ No unpacking or reel transfer required in X-Ray reel counter compared to traditional machines.

◆ Applicable for various chip components, including SMD devices above 01005.

◆ Achieves over 99.99% counting accuracy.

◆ Measurable reel diameter ranges from 7 to 15 inches.

◆ Features innovative AI-powered detection environment and algorithm for automated counting.

Software Interface

0	No Result	
1	One component complete detection	
2	Two component connect	
3	Three component connect	
4	Four component connect	
5	Five component connect	
>5	Over five component connect	

X-Ray Tube Parameters

X-Ray Source	Reflection sealed micro focus X-Ray tube
Voltage Range	20-80KV
Current Range	200-700 µA
Max Output Power	56 W
Micro Focus Size	30~40µm

Flat Panel Detector Parameters

Flat Panel Detector Type	Amorphous Silicon Flat Panel Detector
Pixel Matrix	3072×3072
Field of View	427mm×427mm
Resolution	3.6Lp/mm
Frame Rate（1×1）	6fps
AD Conversion Bit	16bits

Equipment Performance Parameters

Reel Size	7" -15" Tape Reel
Reel Height	≤85mm
Min Componenent	01005
System Docking	MES/ERP/WMS
Labele Printing	TSC Industrial Printer
Input Power	220V 10A/110V 15A 50-60HZ
Control System	Industrial computer WIN7 (WIN10 optional)64 bit

Application Cases

01005	0201	Moisture Bag	Complex Components	Heterologous Components	Empty Reel Detection
Image segmentation algorithm processing connected components	Residual Material Components Count	Roll Bulk Material Count	Bulk Material Count	Overlapping Components Count	JEDEC TRAY Count