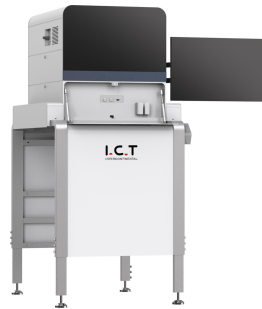


I.C.T DIP Online AOI AI-4026(Before THT Soldering)

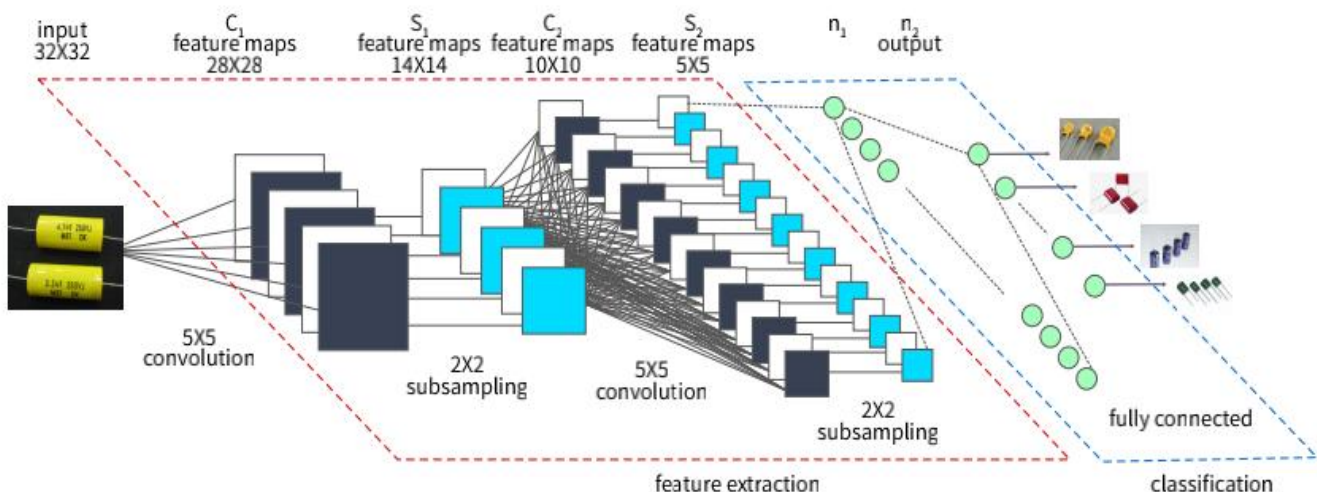


I.C.T DIP AOI captures board image in real time by high precision color industrial camera. Adopt Convolution Neural Network (CNN) algorithm to process images. Judge defects of components intelligently.

Features:

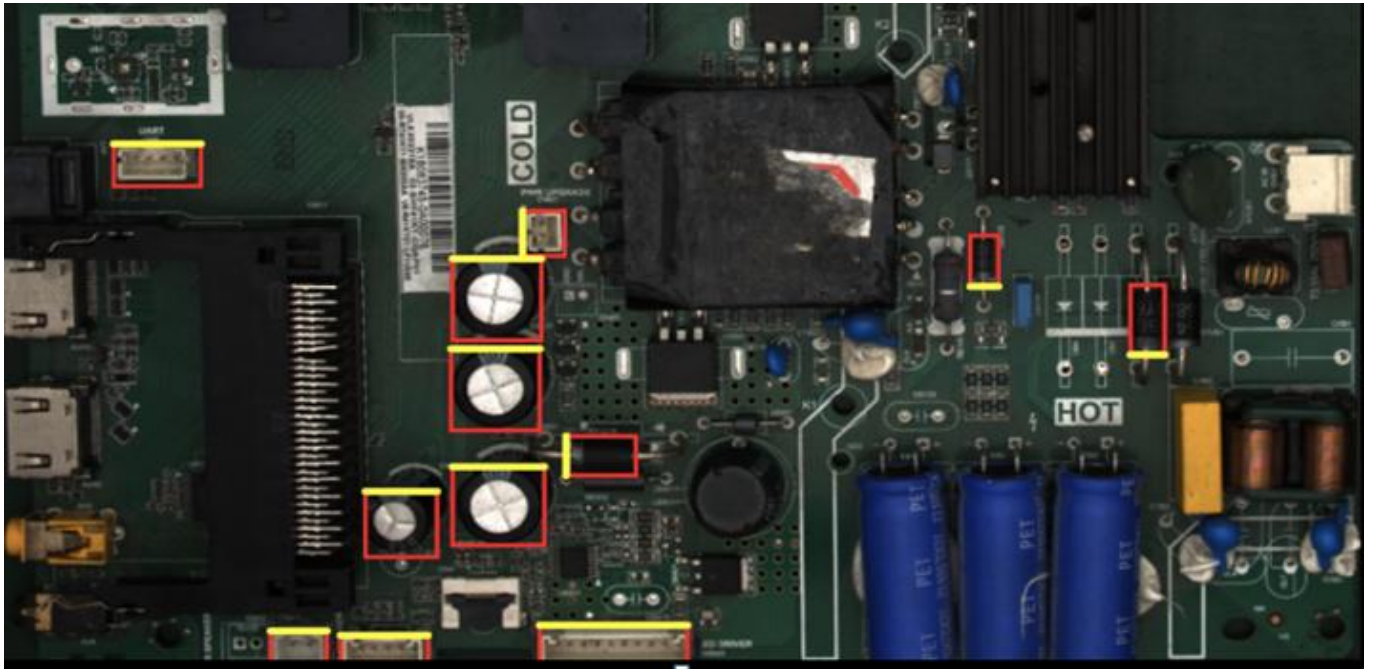
1. On-line PCBA AOI for plug-in before soldering.
2. High inspection rate and low false alarm rate, automatically check color ring resistor, capacitor, diode, socket, etc.
3. Defect type: wrong part, missing part, reverse polarity and other defects of DIP element.
4. Spanning erection without change of production line.
5. Simplified programming flow, very simple interface. Support batch modifying parameters with one-key.
6. Centralized control. Interconnection between multiple equipment.
7. Real-time inspection without stopping the board.
8. Easy to move, adjustable height and width.
9. Locate defects quickly and can control production line.
10. PCBA dimensions: Maximum 400*300mm (12MP) / Maximum 520*380mm (31MP) Multiple selectable options.
11. Data is traceable. Support SPC alarm, LOG automatic collecting and storage function, NG warning/alarm function, Remote programming&debugging.

Advantage:



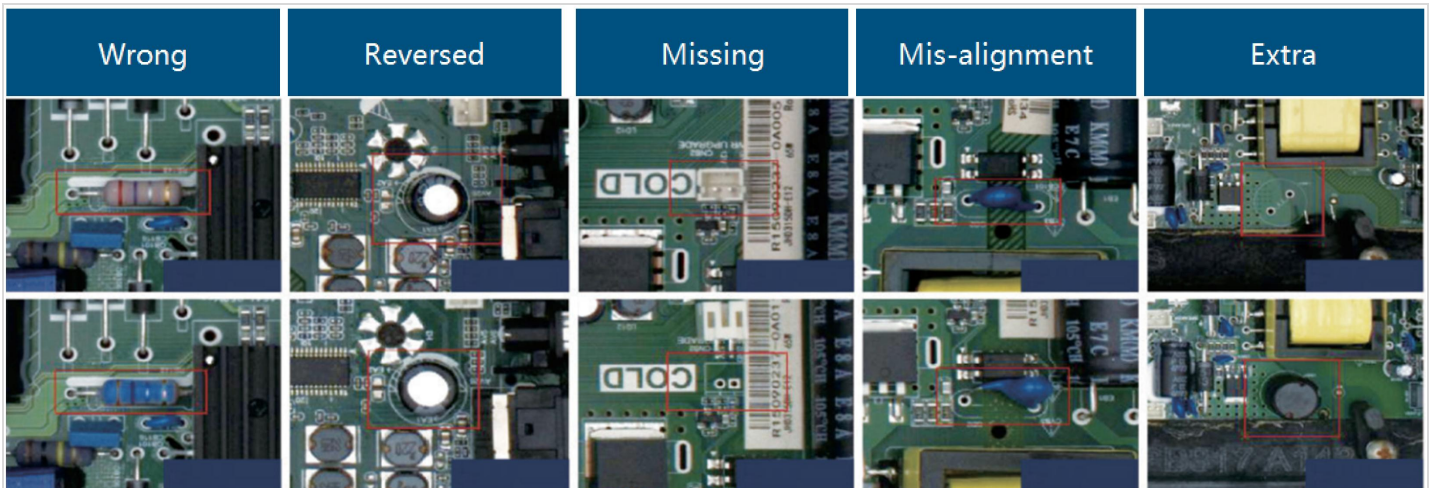
Deep Learning Algorithm

I.C.T AOI by applying deep learning algorithm, big data optimization and intelligent minimalist programming in industrial inspection, I.C.T enables intelligent judgment by one-click automatic identification of components and solder joints, thus addressing the two major pain points of traditional algorithms, namely, long programming time and high false alarm rate.



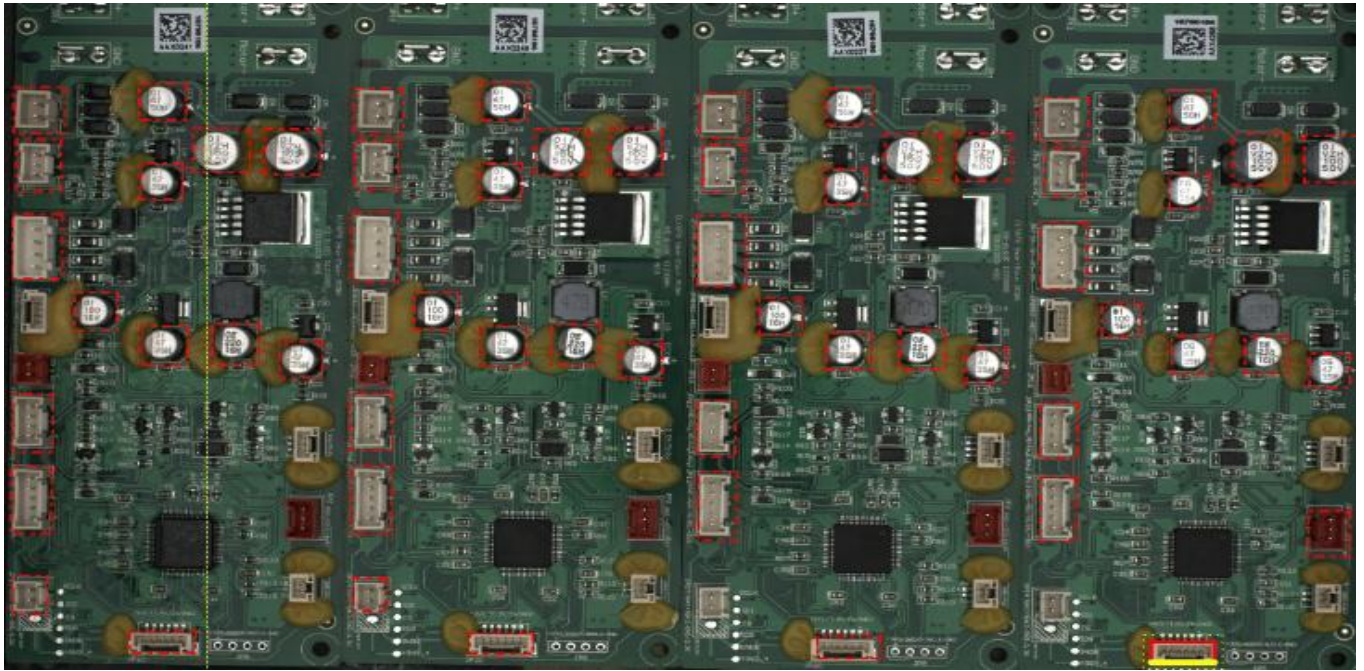
Flexible procedures

1. Intelligent algorithm: Automatically check color ring resistor, capacitor, diode, socket, etc.
2. Online/Offline programming: Optimize and adjust equipment parameters without stopping production line.
3. Easily operate: 10-20min programming time and 10-15min debugging time.
4. Quick operation: Short changeover time. Files of existing formats can be called directly.
5. Audible alarm: Prompt item number, wrong device and type.



Strong Intelligent Inspection Capability

1. Strong feature fuzzy identification capability,able to inspect defect of color ring resistor.
2. Effectively inspect polarity without being interfered by silkscreen on board and change of characters on device.
3. Super strong same color distinguishing ability,effectively identify missing parts and reverse polarity of black devices on black board, black feature on black devices, white socket and jumper on white board and thermistor on green board.
4. Excellent generalization ability.



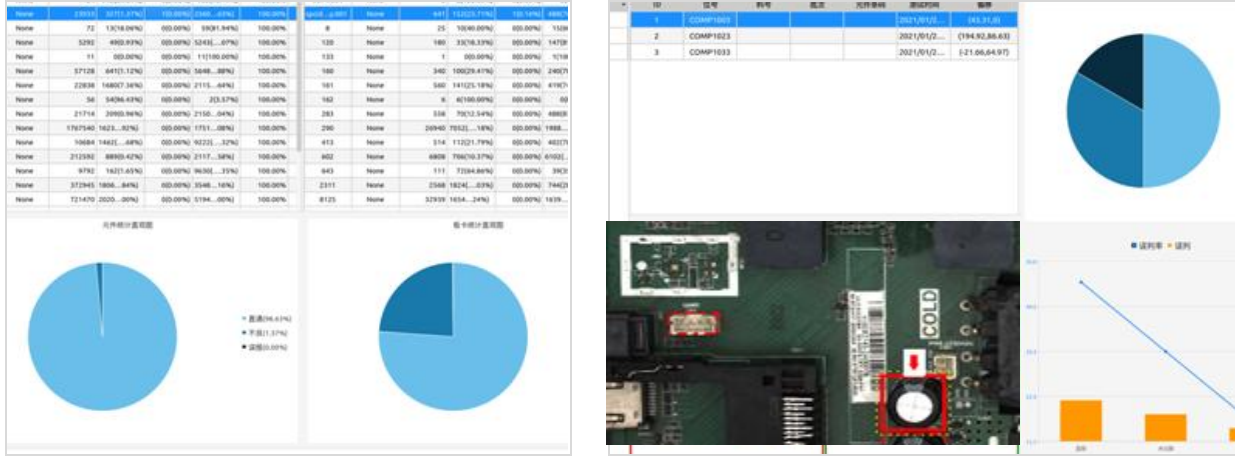
Quick Inspection Speed

1. Flexibly respond to high capacity and situation with/without fixture.
2. Online inspection. Inspection time is not influenced by line speed(up to 1.8m/min)
3. Inspection results can be obtained immediately upon board coming out of inspection equipment.



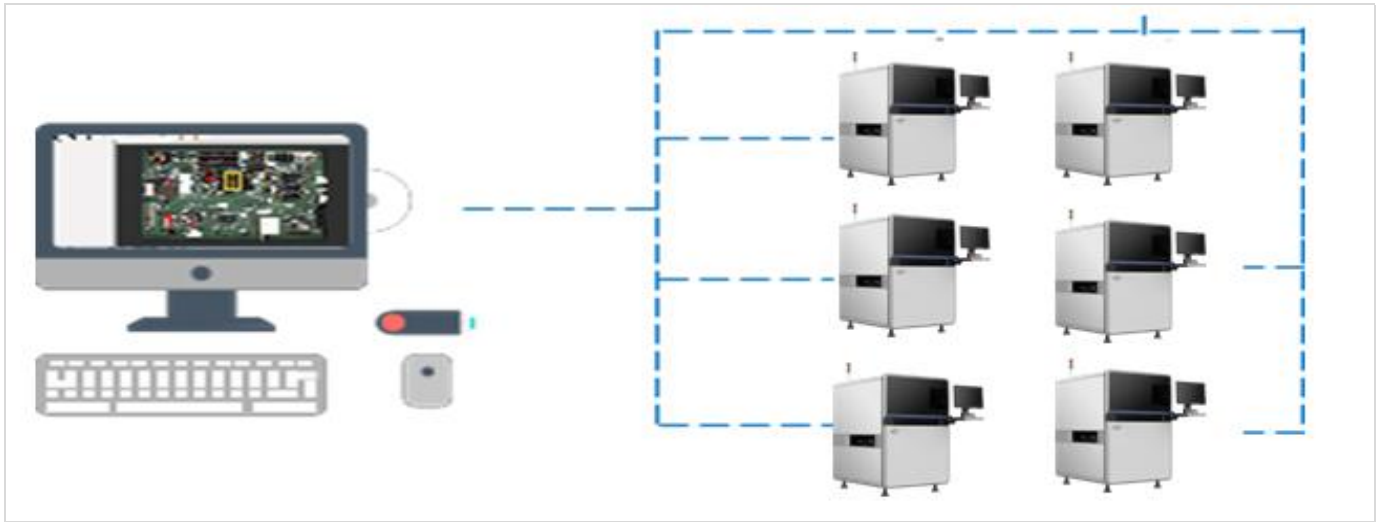
Multiple Inspection Modes

1. Support multi-in-1 board inspection.
2. Support mixed board inspection.
3. Support mixed material inspection.
4. Support rotation identification of multiple angles and multiple positions.



MES System Data Report


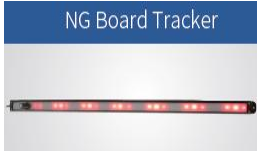
1. Camera automatically reads code (bar code and QR code).
2. Complete data, including overall statistic data and all inspection information of each board inspected.
3. Support one-key export, which is convenient for traceback. Data can be effectively applied in MES system.



Centralized Management and flexible Service

1. Support remote programming, debugging and management. Save changeover time. Support one-to-many judgment.
2. Remote regulation, centralized management. Reduce suspension of work. Enhance production efficiency.
3. Remote off-line programming, which will not affected inspection.
4. Remote support. Quick response and maintenance.
5. Multi-judgment work station realizes one-to-many judgment.

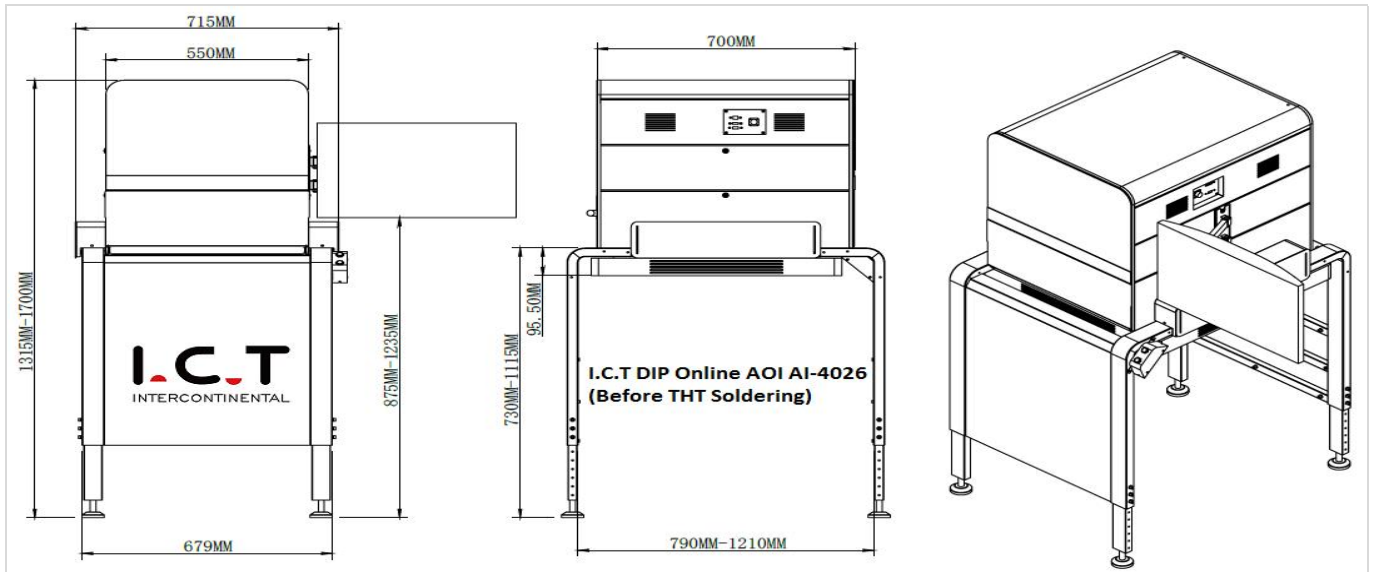
Option:

	
<p>Production Line Control Box Automatic/manual control of production line start and pause, forward and reverse, ensure timely repair of defects.</p>	<p>NG Board LED Tracker Quick locate position of NG board by LED lights to enhance repair efficiency.</p>

Specification:

Model	I.C.T DIP Online AOI AI-4026(Before THT Soldering)	I.C.T DIP Online AOI AI-4026L(Before THT Soldering)
FOV	400*300mm	520*380mm
Resolution	90um	80um
Camera	12M	31M
Light	W light source	W+Strip light, 4 sides
Inspection Algorithm	CNN, Color contrast, Outline recognition, Offset inspection, Template matching, Character comparison, OCR, etc.	
Inspection Item	Component: Absent, Reversed, Mis alignment, Broken, Extra, Foreignmaterial, Stained, etc. Other: NG tracking bar(optional), Control box(optional), Mixed material inspection, Panel inspection.	
Mixing PCB inspection	Support calling program automatically.	
PCB Size	50*50mm~400*300mm	50*50mm~520*380mm
Operation System	Ubuntu 18.04 LTS 64bit Remote control, remote assistance, CAD file import and user-defined model training	
PC	CPU: Intel i5 Display card: NVIDIA GTX1050Ti Memory: 8G DDR, 256G SSD+2T Mechanical Hard Disk Network: 1000M Wired Network Card	CPU: Intel i7 Display card: NVIDIA GTX1050Ti Memory: 8G DDR, 256G SSD+2T Mechanical Hard Disk Network: 1000M Wired Network Card
Display	23.8 inch FHD display	
Data output	Autogenerated statistic analysis SPC	
Special function	Automatic search of elements and quick programming	
Power	AC220 50/60Hz, 5A	
Rated power	200W	
Compressed Air	0.4~0.6Mpa	
Communication	SMEMA	
Weight	120Kg	
Dimension	L715*W760~1210*H1315~1700mm	

Dimension:



Thanks for choosing I.C.T.
I.C.T looks forward to win-win cooperation.
Thanks.