

A Leading Global

Professional Visual Inspection

Equipment Manufacturer



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Machine Vision Expert



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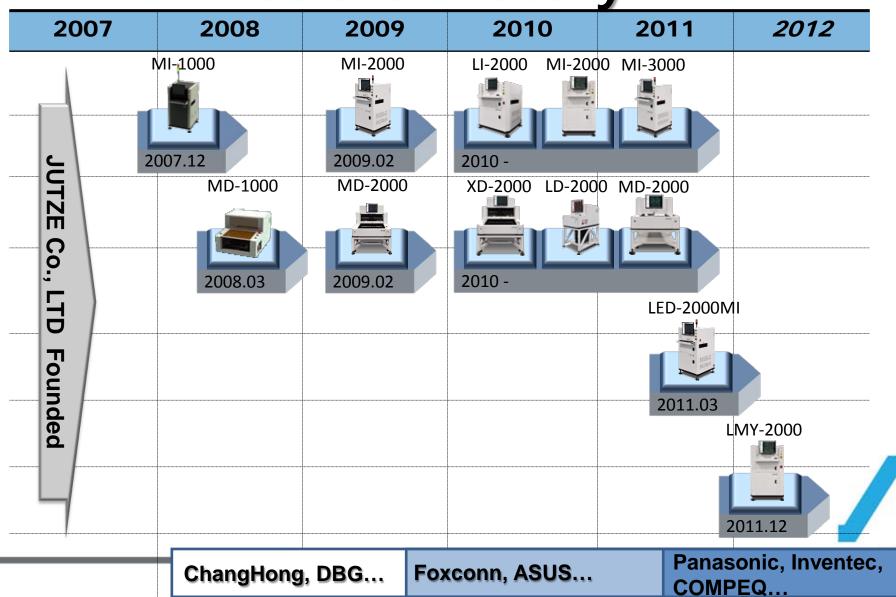
3 floor, Building 2, N0. 7178, Zhongchun
Rd, Minhang, Shanghai







Jutze History





Product - In-line

MI-3000

Table Fixed, Suitable for pre-reflow & post-reflow High Speed, High Accuracy

Join Us To Zero Escape

Continue to improve process capability

LI-2000 Wide use





MI-2000B Small Compact Design







Product - Off-line





LD-2000 Suitable for 90% kind of normal size PCB

Practical

and

Flexible

Controller

Reliable Quality



XD-2000 Extra Large Size PCB





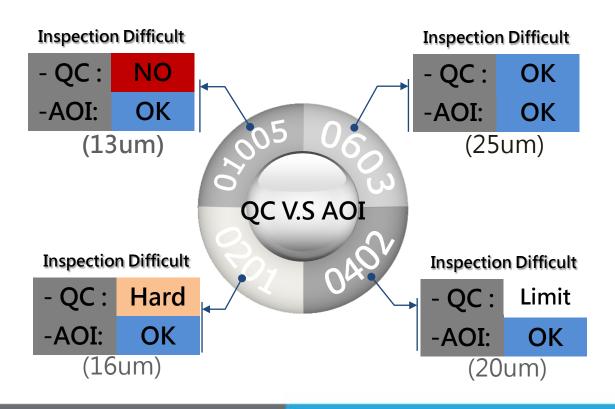


AOI Background

Why need AOI?

As process technology continues to progress and labor costs continue to rise, import AOI to control process can be achieved and reduce labor and maintenance costs, improve QC staff instability, and thus the purpose of increasing yield.

More importantly, more and more products use 01005, which is not capable of human inspect.



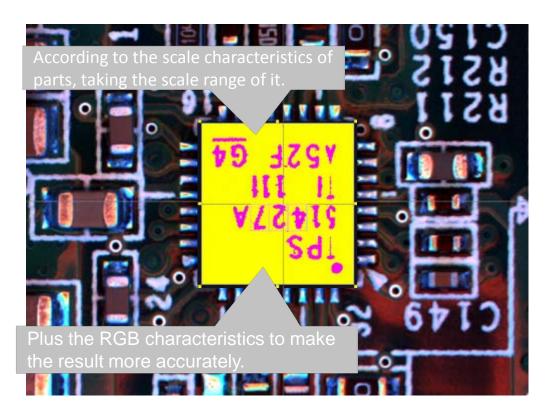


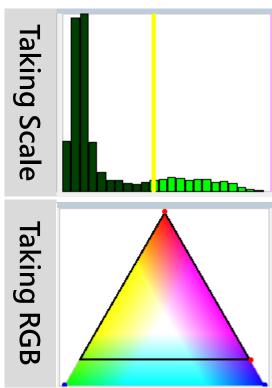
Component Size Compare



Jutze AOI Detection Principle

Based on scale and RGB, taking the geometry of the component image characteristics, and the pixel calculation.





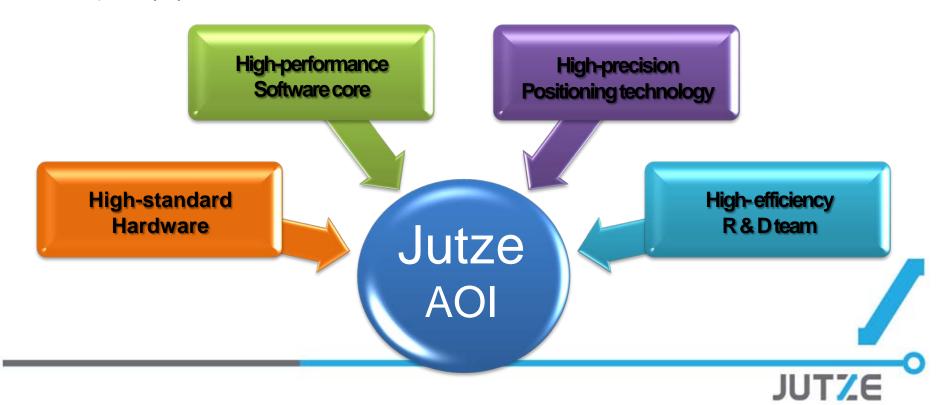




Product Special

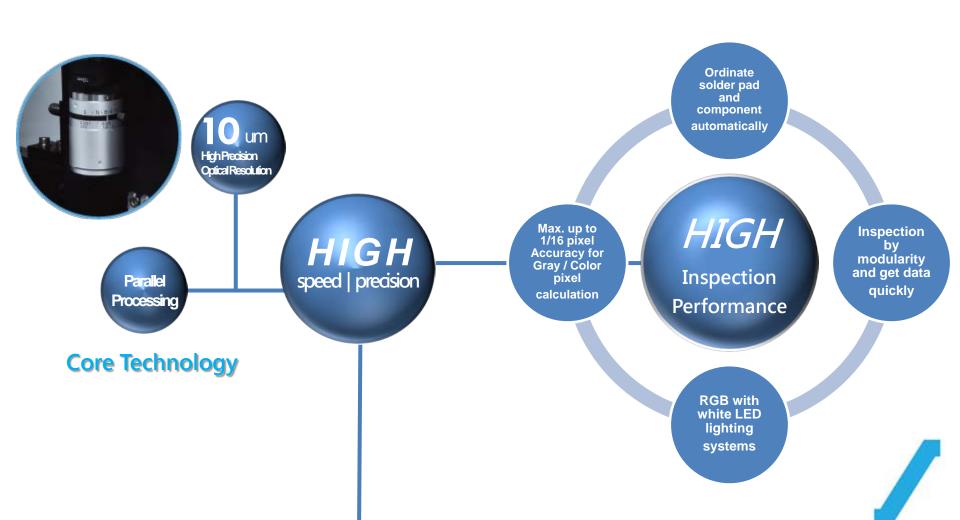
- JUTZE - Automated Optical Inspection

Jutze AOI based on "High-standard Hardware configuration", "High-performance Software core", "High-precision Positioning technology", "High efficiency R & D team" to achieve high speed, high accuracy of the In-line real-time inspection equipment, and also leader of China AOI market high-level models. Especially cycle-time, FPY, false-call rate has been exceeded other brand AOI in the world.





Product Special





Product Special

4 Channel Lighting System

Adjust Whole Parts Position: Export Parts Of The X, Y, θ Offset

Algorithm: LedBox

Algorithm: PatternBox

Multi-Threading

Solution For Golden Finger

In Control Analysis

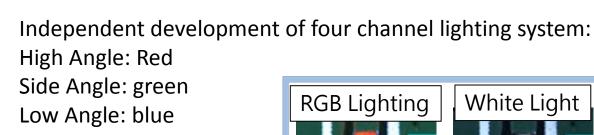
Multi-Repair Function

Remote Tuning

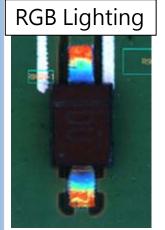
01005 components correspond exactly



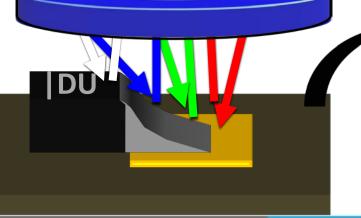


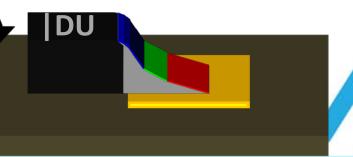


Special white: for the text To make the image clearer



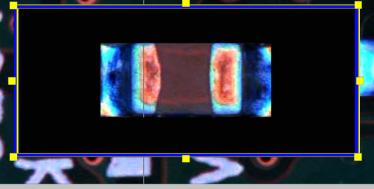




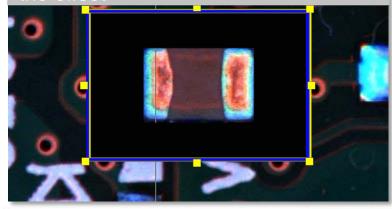


Adjust Whole Parts Position

Identify full-board pad position and apply vector to automatic correction

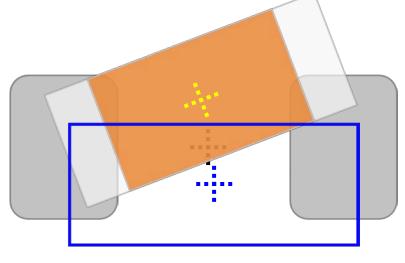


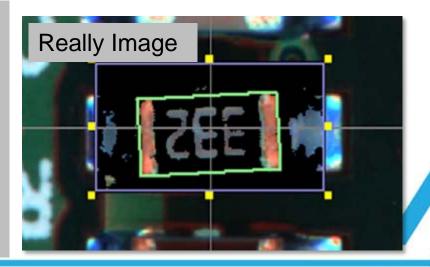
Based on the above, automatically identify the position parts to calculate the offset



Especially PCB bending or deformation

Accurate output to parts of the X, Y and θ offset.



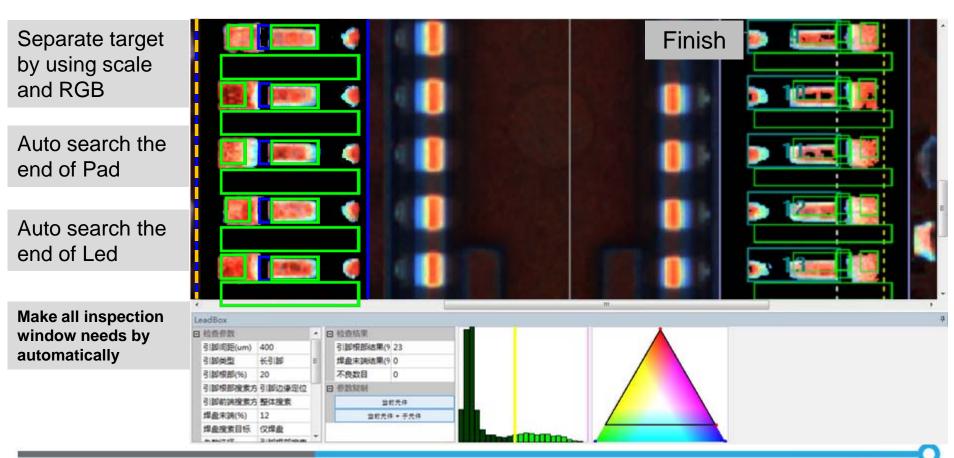






Algorithm: LedBox

Based on a modular detection mode, applied to multi-pin parts: QFP, SOP, etc., to simplify programming, tuning, and make the results at a glance, more accurate.







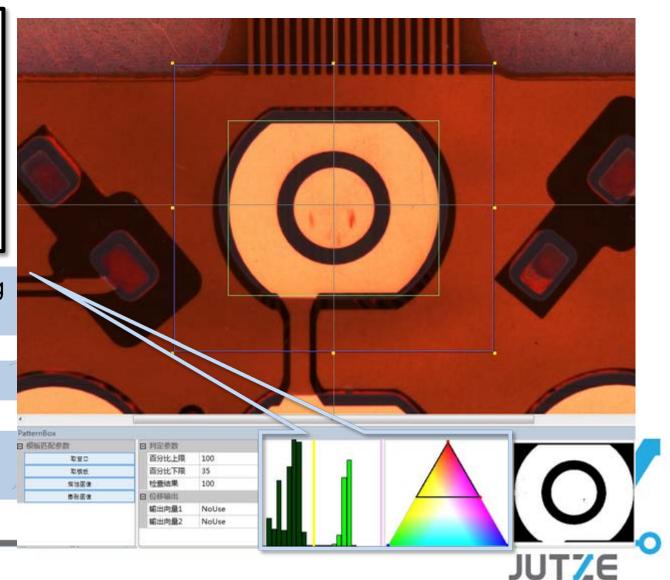
Algorithm: PatternBox

Concept comes from the irregular shape of the detect problems, out of the window concept, can detect objects of arbitrary shape to be detected, making detection easier, convenient, accurate.

Separate target by using scale and RGB

Pink area is the result

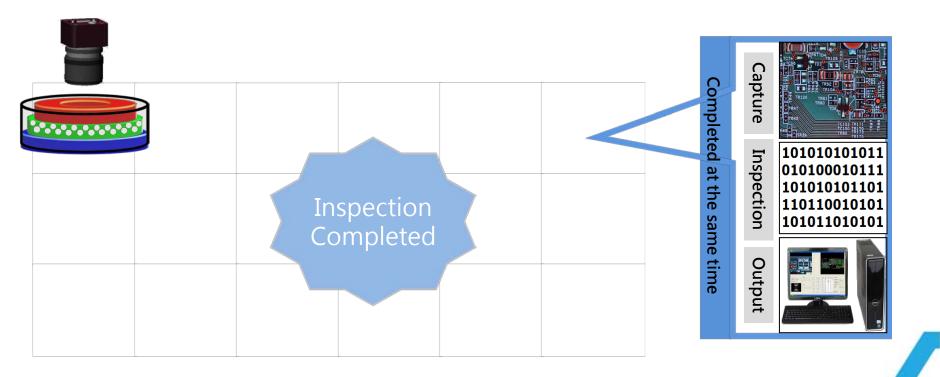
Easy detect any kind of NG without background





Multi-threading

When capture finish is equivalent to inspect finish, also mean data output finish. So we can faster 30% than other brand AOI base on same level.

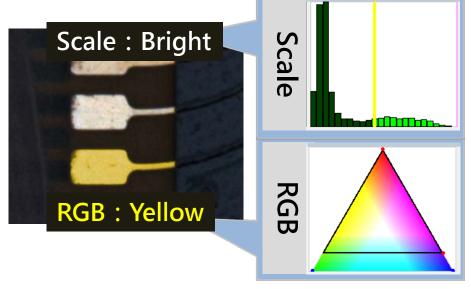


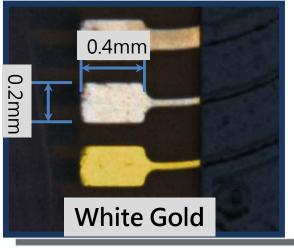


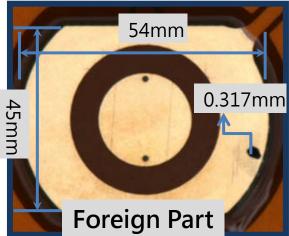
Golden Finger

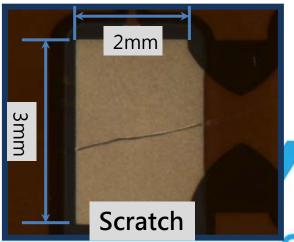
Using PatternBox separate background by using scale and RGB

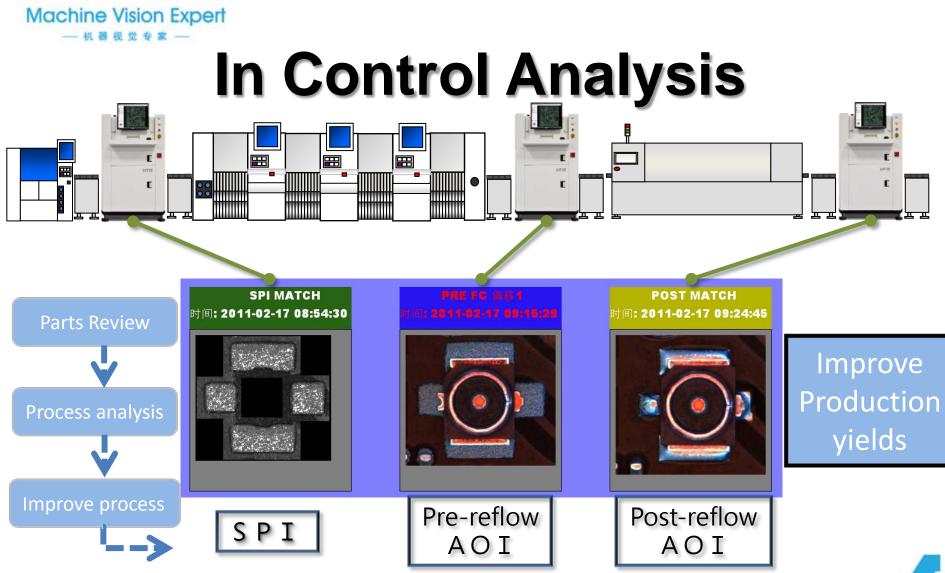










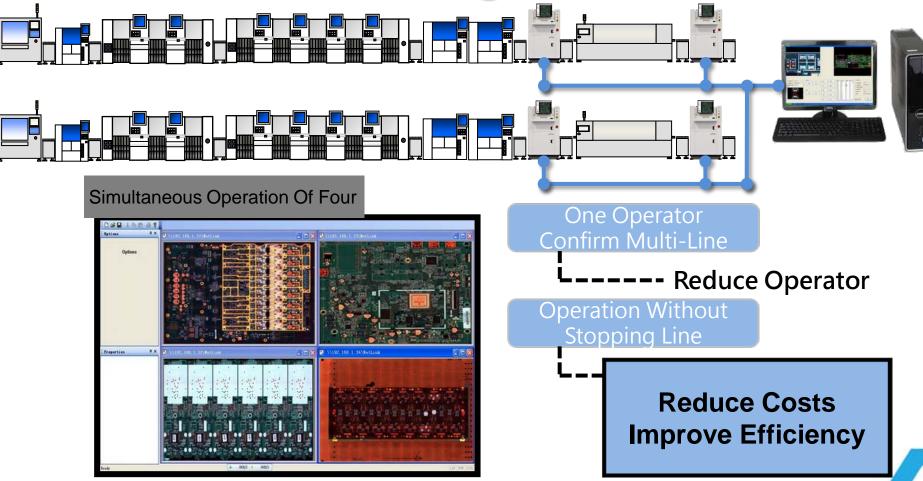


Real-time control the image from NG components in the SPI, pre-reflow AOI and post-reflow AOI. Check the NG images from after printing, after mounting and post-reflow, to determine the causes of NG.





Centralized Management Software



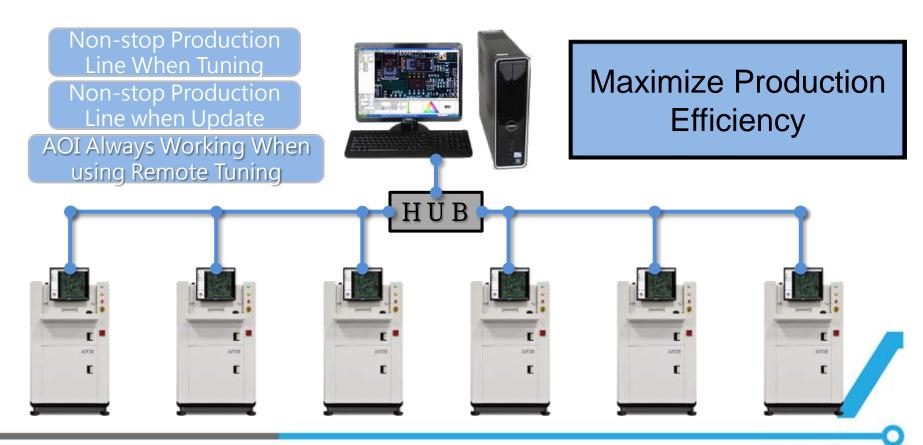
Improve rate of production line automation, reducing labor and costs, to establishment of production lines fast feedback mechanism, can be multi-monitored SMT production line workers to help technology analysis process.





Remote Tuning

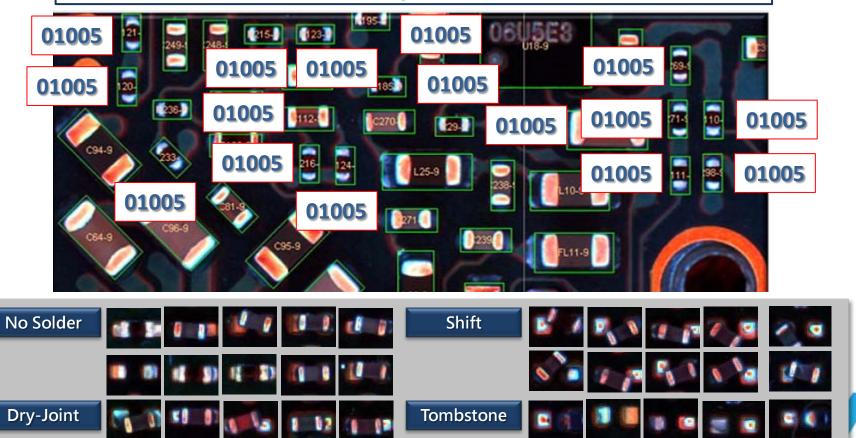
Can modify and update parameters real-time by contacting in-line AOI through net without stop product line. And also real-time update the new inspection data before next PCB comes.





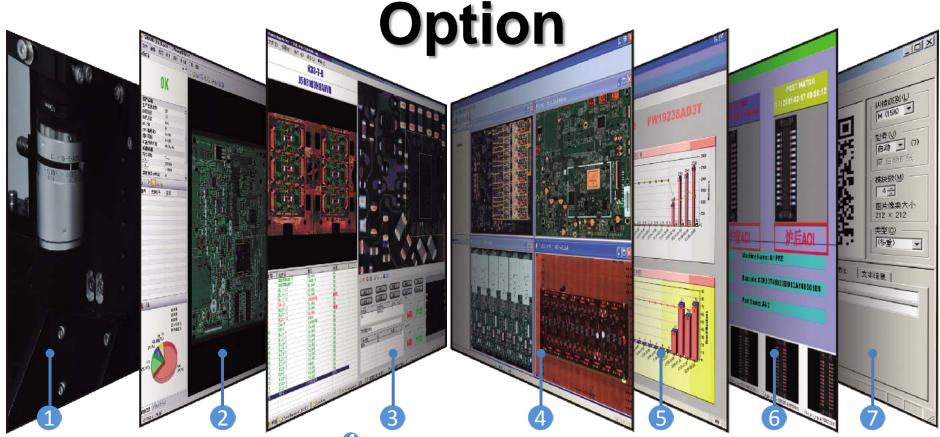
01005 Parts Correspond Exactly

To detect the NG of 01005 parts is standard of Jutze AOI





Machine Vision Expert



High Precision Image Systems
5M Pixel Camera

Remote Tuning

Can modify and update parameters real-time by contacting in-line AOI through net without stop product line.

Repair Terminal

Receiving the inspection results from in-line AOI at realtime will let user to make judgment quickly for defects. It also can connect multi in-line AOI, select PCB by hardware barcode scan function. Repair results can be output at statistics form.

4 Centralized Management Software Improve rate of production line automation, reducing labor and costs, to establishment of production lines fast feedback mechanism, can be multi-monitored SMT production line workers to help technology analysis process, identify the cause of the issue and thus enhance process capability.

SPC SPC

Powerful data analysis system, easy to operate, beautiful interface, can multi-machine real-time monitoring, search PCB by barcode, production statistics, false call analysis, a variety of report output functions

6 In control analysis

In control analysis function, real-time control the image from NG parts in the SPI, pre-reflow and post-reflow AOI. Check the NG images from after printing, after mounting and post-reflow, to determine the causes of NG.

Barcode

1D . 2D Barcode correspondence





Service Network





Our Customers























Panasonic







- Sumitomo Corporation
- 住友商事株式会社





