

Ex) Moisture-proof coating inspection

By excluding ambiguous coating boundaries from the inspection and measuring the color difference only in the required area, both uncoated and scattered area can be detected.

※Need to add 365nm UV-LED (optional)



Visual inspection for PCBA

Summit series

- ✓ Wide range of inspection capabilities including 0.6x0.3mm chips, older printing, moisture-proof coating, etc.
- ✓ Ultra-high tact time within 10 seconds for 330x250mm size PCB
- ✓ Easy setup, Inspection ready 15 min

Effectiv in high-mix low-voume production isten sites

SPECIFICATIONS				
Type/Model		Conveyor not mounted : Summit CX-M / WV-1806Q-330CVX Conveyor mounted : Summit CV-M / WV-1806Q-330CV	Summit TB-M / WV-1806Q-330	Conveyor mounted : Summit CV-L / WV-1806T-510CV
Target	PCB size	50mm(X) , 50mm(Y) – 330mm(X) , 250mm(Y) Thickness : 0.4mm - 3.0mm		50mm(X) , 50mm(Y) – 510mm(X) , 460mm(Y) Thickness : 0.3mm - 8.0mm
	Component size	Minimum chip : 0.6mm(X) , 0.3mm(Y) Max Height : 20mm Max number of components : No limit		
	Detection target	Shortage , direction , deviation , upside-down, wrong parts , solder-ball , bridge , different colors , etc. 1D/2D Bar code reading (optional)		
Imaging range	Camera	18 MPixel USB3.0 CMOS x 4 cameras		18 MPixel USB3.0 CMOS x 3 cameras
	Lens	Focal length 6mm F1.8 Resolution 5 MPixel		
Optical resolution		Approx.37 μm/pixel		
Inspection time		5~20 seconds (Variable according to area and mesh size)		5~30 seconds (Variable according to area and mesh size)
Lighting		High brightness white flat LEDx4 directionsAdditional option: 365nm UV-LEDx2		
PC		CPU: Intel Core-i5 Memory : 8Gbytes OS: Windows10		
Monitor		24 inch Full-HD (HDMI connection)		
Power Supply		AC100~240V(50/60Hz)(J) / DC24V 42W max(EU)		
Operating temperature range		5°C~40°C		
Unit size(mm) / Weight(kg)		L:640mm D:1200mm H:1250mm (Conveyer length is specified separately) Body : approx.85kg(CVX) approx.120kg(CV)	L:560mm D:826mm H:420mm approx.20kg	L:1200mm D:1780mm H:1262mm (Conveyer length is specified separately) Body : approx.200kg

WEBSITE

<https://www.wvision.co.jp/>

CUSTOMER SUPPORT

support@wvision.co.jp

- For pricing and subscription, please contact the agency below
- Some product photos in this catalog may differ from actual products
- Some specifications in this catalog may differ from actual products

Please ask this agency for sample verification and quotation



Lightweight desktop model

By not integrating into a line, batch inspection of multiple lines can be performed.

Summit TB-M

- This makes it easy to inspect the inserted parts and solder side after DIP
- This shortens the inspection time after mounting
- It can be used universally to support visual inspection
- Maximum PCB size : 330x250mm



Start inspection just by closing the slide table

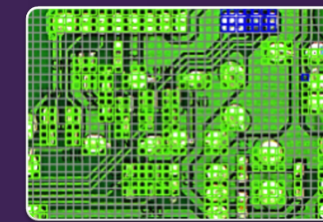


No longer need a parts library so Inspection setting is easy !

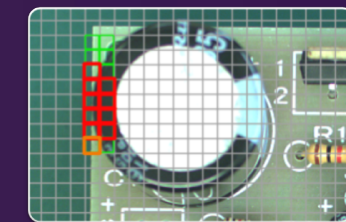
"Mesh Matching" *, is a unique software that can be easily used in the field . "Mesh matching" meshes the image by a uniform size mesh and compares the same position mesh between the good image and the inspection image. If it is less than the threshold, inspection detects and shows NG on a display. No more need any specialized skills. And it can be completed the setup in a short time.

* Japanese Patent No.62333824

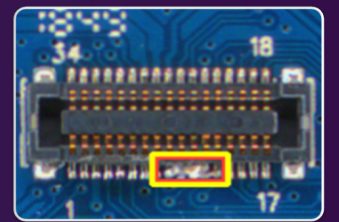
【 Inspection example 】



[Solder side of board inspection]



[Inserted parts inspection]



[Mounted parts inspection]

Pre-Reflow Inspection model

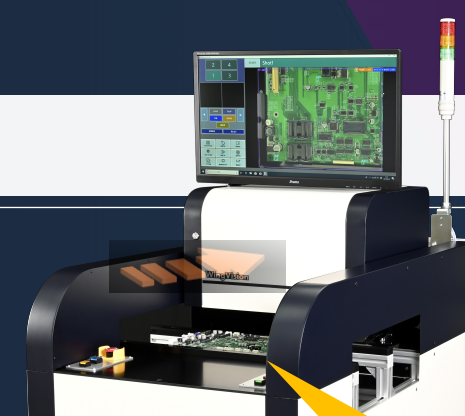
There are two types : one type with a built-in conveyor and another type without the conveyor, so it does not require layout change. The "slide head" moves backwards for easy access to the board.

Summit CV-M / Summit CX-M Summit CV-L

- This can detect defect before soldering, so it can eliminate some repair and secondary defects
- And this is useful to catch upfront trouble quickly
- That makes it easy to find the difference from the previous one by checking the first board after switching models
- Maximum PCB size : 330x250mm(330series) / 510x460mm(510series)



Summit CX-M



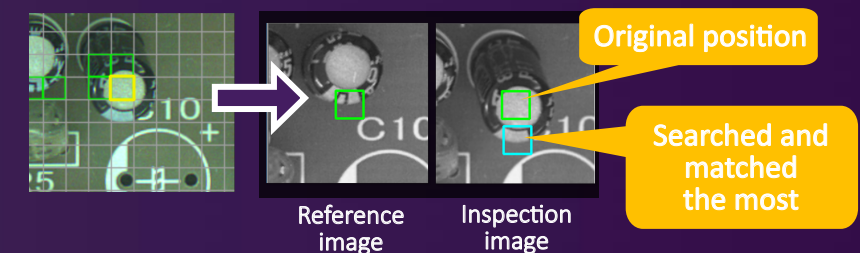
Easy PCBA access

The "slide head" * makes it easy to correct misaligned parts, put them on trial production, and take temperature profiles.

* Patent pending

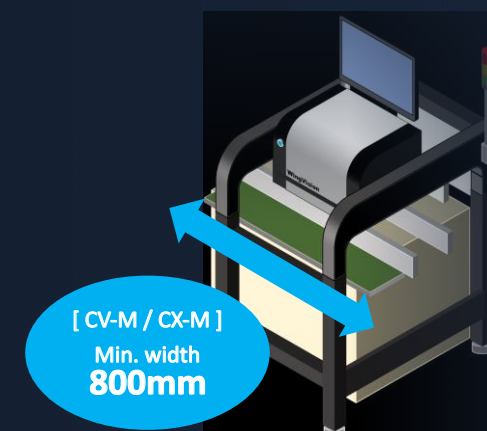
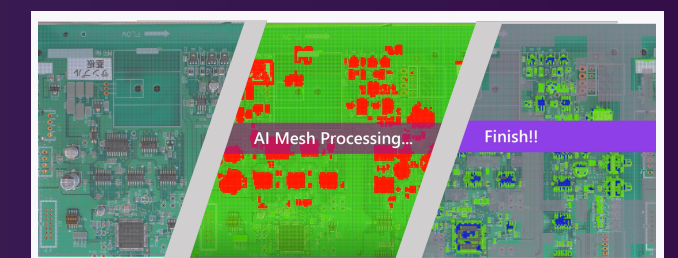
Achieves both flexibility and high detection accuracy

"Mesh Matching" can inspect normally, even if target parts don't have enough positional accuracy. Because the maximum matching point is searched within acceptable search area. This provides both flexibility and high detection reliability.



"AI-Mesh" sets inspection parameters automatically

"AI-Mesh" compares the unmounted board with the mounted reference board, and automatically sets the necessary parameters. It achieves saving time for setting and high-precision setting.



[CV-M / CX-M]
Min. width
800mm

Easy to install without changing the layout, it is possible existing conveyors to be used as before

PRI reduces inspection items at AOI. Not only board repair costs but also program setup will be reduced. It can be expected to improve whole equipment efficiency.

