

## L PCB compatible Summit CV-L

Three cameras positioned horizontally move to the back, enabling PCB inspection of up to 510 x 460 mm.



PCB visual inspection system

# Summit



2D design makes "Simple & Compact" possible to this extent.  
Effective in high-mix low-volume production.

### SPECIFICATIONS

Type/Model		Summit TB-M (WV-2012Q-330)	Summit CV-M (WV-2012Q-330CV)	Summit CV-L (WV-2012T-510CV)
Target	PCB size	50mm(X) , 50mm(Y) to 330mm(X) , 250mm(Y) Thickness : 0.4 to 3.0mm		50mm(X) , 50mm(Y) to 510mm(X) , 460mm(Y) Thickness : 0.3 to 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	20MPixel USB3.0 CMOS x 4 cameras		20MPixel USB3.0 CMOS x 3 cameras
	Lens	Focal length 12mm F2.8 Resolution 20MPixel		
Optical resolution		Approx.37 μm/pixel		
Inspection time		5 to 20sec. (Variable according to area and mesh size)		5 to 30sec. (Variable according to area and mesh size)
Lighting		High brightness white flat LED x 4		
Monitor		24 inch Full-HD (HDMI connection)		
Power Supply		AC100V		
Operating temperature range		Temperature 0 to +35°C Humidity 20 to 80%RH (no condensation)		
Unit size(mm) / Weight(kg)		L:610mm D:493mm H:420mm (Monitor height not included) approx.35kg	L:640mm (Conveyor length not included) D:1,200mm H:1,250mm (Monitor height not included) Body approx.120kg	L:964mm (Conveyor length not included) D:1,780mm H:1,260mm (Monitor height not included) Body approx.200kg

#### WEBSITE

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

#### CUSTOMER SUPPORT

[support@wvision.co.jp](mailto: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

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Hotaka5951-1 301 , Azumino , Nagano 399-8303



**All in-house developed Made in Japan**

**Continuous evolution based on feedback from the field  
"Highly functional and easy to use"**

## Off-line Model

### Summit TB-M

- Inspection of mounted parts as well as inserted parts and solder.
- After NG judgment, the result can be confirmed visually on the monitor.
- No drive shaft, compact, lightweight, simple housing, and layout-free.



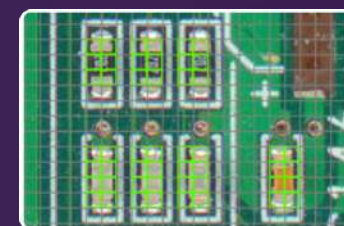
Just close the slide table to start the inspection



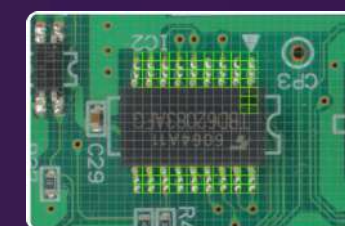
**No need for parts libraries, which used to be hard to create and manage!**

Equipped with our self-developed software "Mesh Matching" \* that can be easily used in the field. "Mesh Matching" is an inspection method in which images are divided into a uniformly sized mesh pattern, and the reference image and the image to be inspected at the same location are compared to each other. This is an inspection method that judges by a set threshold value. No specialized skills are needed, and setup can be completed in a short time.

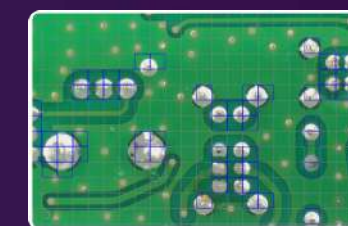
\* Japanese Patent No.62333824



[ Missing/Not in position/Back ]



[ Polarity/Pin Bend ]



[ Solder Bridge/Red Eye ]

## Pre-Reflow Inspection Model

### Summit CV-M Summit CV-L

- Mistakes are detected before solder joints are made, no need for repairs or secondary defects.
- Easy to check the difference from the last time with the first check after switching models.
- Also used as a solder post-printing inspection machine (SPI)



Summit CV-M

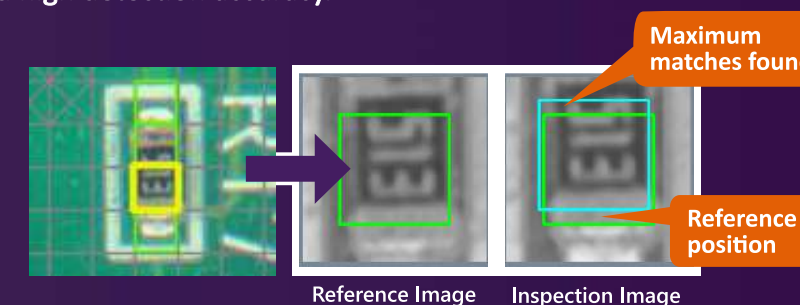


Easy PCB access

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

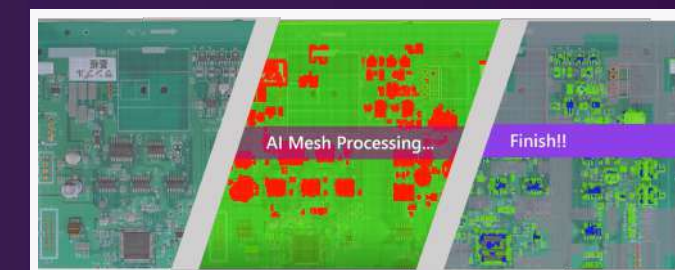
**Achieves both flexibility and high detection accuracy**

Mesh Matching is capable of "inspecting parts with low positional accuracy," which is a challenge for general inspection equipment. Each individual mesh searches its surroundings within an acceptable range to find the maximum matching pattern, achieving both flexibility and high detection accuracy.

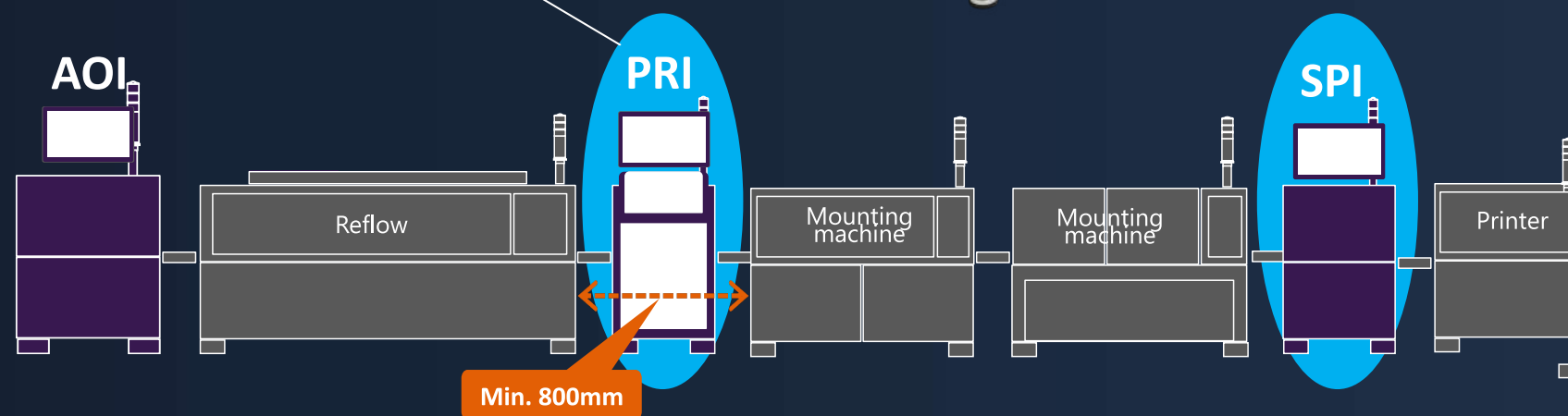


**Includes inspection setup support functions**

The "AI-Mesh" function automatically sets the optimal parameters for the required inspection location based on the combination of good and unmounted PCBs. Inspection settings can be completed in just a few minutes to several tens of minutes.



**PRI : Pre-Reflow Inspection**



Min. 800mm