



SPECIFICATION



Model	WV-1806S-200	WV-1806Q-330	WV-1806Q-330CV
Type	WV-1806S-200 (JP) WV-1806S-200E (EU)	WV-1806Q-330 (JP) WV-1806Q-330E (EU)	WV-1806Q-330CV
Target	<b>Detection target</b> Burr, chipping, scratch, dimensional error shape defects, surface unevenness, wrinkle missing item, incorrect component reverse attachment, color difference inclination, soldering problem LED lighting brightness / color tone failure LCD panel pixel defect, incorrect insertion of resistor (color bars) etc.	<b>PCB size</b> 50 mm(X), 50 mm(Y) — 330 mm(X), 250 mm(Y) Thickness of board 0.4 mm—3.0 mm  <b>Component size</b> Minimum chip: 0.6 mm(X), 0.3 mm(Y) Max Height: 20 mm Max number of components : No limit  <b>Detection target</b> Shortage, direction, deviation, upside-down, wrong parts solder-ball, bridge, different colors, etc.	
Imaging range	Max. 200 mm×150 mm (In the case of the standard lens)	Max. 330 mm×250 mm (In the case of the standard lens)	
Optical	Camera 18 Mega pixels USB3.0 CMOS x 1 camera	Camera 18 Mega pixels USB3.0 CMOS×4 cameras	
Optical resolution	Approx. 4 μm~100 μm/pixel (Variable according to lens/distance between workpieces)	Approx. 37 μm/pixel	
Inspection time	3~10 seconds (Variable according to area and mesh size)	5~20 seconds (Variable according to area and mesh size)	
Illumination	High brightness white flat LED×4 directions		
PC	CPU: Intel Core-i5 / Memory: 8 Gbytes / OS: Windows10		
Monitor	21 inch Full-HD (HDMI connection)	23 inch Full-HD (HDMI connection)	
Operating temperature range	5°C~40°C		
Options	<b>Hardware</b> Machine size, illumination, number of cameras (max. 8) focal length etc.  <b>Software</b> Bar code module, OCR module, LED inspection module resistor (color bars) inspection module etc.	1D/2D bar code reading OCR, special size	1D/2D bar code reading, OCR special size, automatic width adjustment mechanism, touch panel monitor
Machine size (mm)	L360 × D300 × H420	L545 × D380 × H410 (without monitor)	L824 × D1,100 × H1,305 (without monitor)
Weight(kg)	Approx. 13	Approx. 25	Approx. 210
Power supply	AC 100 V, 50/60 Hz (JP) Max. DC24 V, 28 W (EU)	AC 100 V, 50/60 Hz (JP) Max. DC24 V, 42 W (EU)	AC 100 V~240 V

The product specifications may be changed without prior notice.

# Automation and labor saving of visual inspection Easy setting without skill for inspection

Easy inspection setting designating an inspection area by pointing with the mouse supports automation and labor saving of visual inspection, and reduces inspection process.



## Benefit

Inspection ready  
**10 min.** after simple setting of A4-PCB

Self-developed program assists automation and labor saving of inspection

Bar code, QR code, OCR read support available



# PRECISION EYE

WV-1806S-200/1806Q-330/1806Q-330CV

New Generation Inspection System for PCBA  
New Generation Universal Inspection System

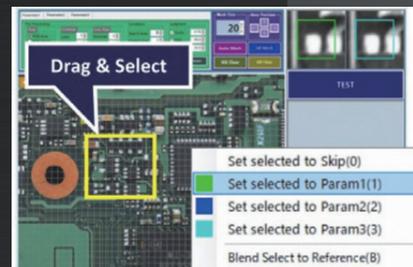
Image inspection requires specialized skills and readjustment just after a slight change in state. "Mesh Matching" software was born, to solve these issues. Thanks to it, inspection setting is completed only by mouse operation. Two types of inspection systems, for PCB and for multi-purpose, correspond to the visual inspection of a wide range of applications. The practicality that can be used on site is attractive point.



## Advantages

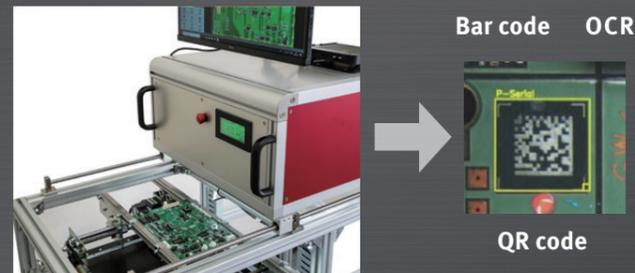
### Unique software makes the inspection setting easier and quicker.

3D function, cumbersome and less robust set aside, RGB image data accurately processed. The combination of Mesh Matching software (patented), originally designed eliminates the workload for numerical and complex parameter input. Just designating an inspection area by pointing with the mouse will greatly reduce the inspection processing time.



### Flexible system built up for traceability

Not only captured image automatically stored, but also bar code serial and OCR function of IC lot number are available as option. Plug-in software for output conforming to your own data format.



### Perfect solution for manpower-saving of visual inspection!

PRECISION EYE realizes cost reduction through automation and labor saving of visual inspection. "Mesh Matching" system offers rich and specific information necessary for various inspection such as shape of outline, amount of positional shift, delicate brightness and color difference etc. We offer you most optimal inspection system.



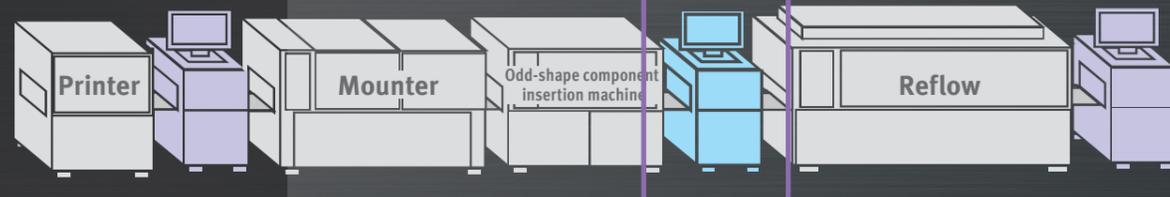
### Installation of PRECISION EYE before reflow realizes quick feedback to mounting and printing process.

Best to install WV-1806-330CV inline before reflow. By detecting a defect before soldering hardened, secondary defects at repair are prevented, and quality is built upstream by quick feedback to a mounter and a printer.

### "AI - Mesh" function to set parameters automatically at required inspection points (only 330, 330CV)

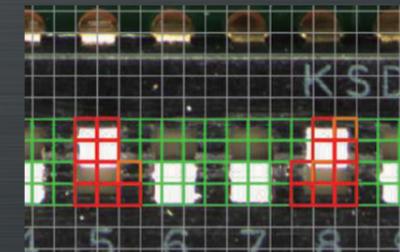
"AI - Mesh" function assigns optimum parameters of mounting position automatically to a printed wiring board precisely reflecting the reference quality board, both installed in the system. This system improves efficiency and accuracy.

## [Effective Layout]

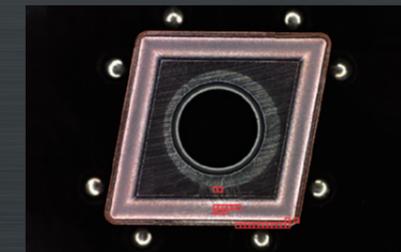


## [Applications]

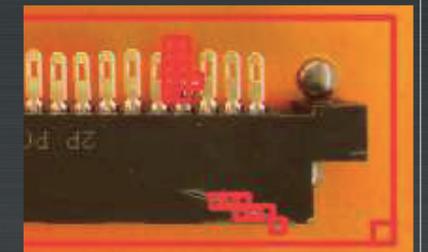
DIP switch direction



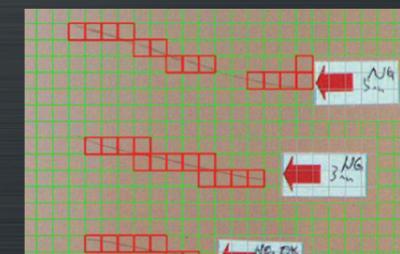
Insert surface scratch / chipping / uneven coating



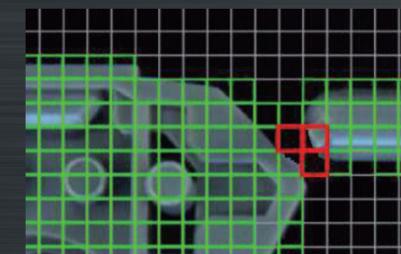
Connector pin + mold



Metal surface scratch / dirt



Resin molded burr / shortage



Inspection before product packing

