

---

## Offline AOI ND-880

- 5 million pix full-color high speed digital camera (16/20 million pix optional), ensure high efficiency, high quality and high stability of image shooting, restore the real and natural image effect.
- Windows 7 x64 operation system, high data processing speed.
- GPU independent hardware processing images, while CPU processing non-image computing, so as to balance the efficiency of computer system.
- Thousands of sales, advanced and upgraded configuration and continuous technological innovation based on 6 series AOI products, high stability and efficiency.
- Optional telecentric lens with high resolution, unique parallel light design, PCBA tilted or tall components can be distinctly displayed.
- Intelligent and fast programming, intelligent algorithm, no need of manual intervention, easy to learn, high detection rate, low error rate.
- Flexible and mobile maintenance station and SPC checking terminal.  
Mobile devices under wireless network, working station can be set up flexibly on workshop in one to many mode: the detection data of multiple online machines can be checked through one maintenance workstation, the defect details are clearly reported. SQL data system are well-defined, SPC report with pie chat and histogram, very convenient for customer process analysis and quality improvement.
- Convenient and practical offline programming software OLP. PCB genuine image can be taken in real time and stored in full memory, ensure high efficient programming under circumstances of either online or offline.



## Specifications: ND-880

Inspection system	Application	After stencil printing, pre/post reflow oven, pre/post wave soldering, FPC etc.
	Program mode	Manual programming, auto programming, CAD data importing
	Inspection Items	Stencil printing: Solder unavailability, insufficient or excessive solder, solder misalignment, bridging, stain, scratch etc. Component defect: missing or excessive component, misalignment, uneven, edging, opposite mounting, wrong or bad component etc. Soldering defect: excessive or missing solder, empty soldering, bridging, solder ball, IC NG ,copper stain etc.
	Calculation Method	Machine learning, color calculation, color extraction, gray scale operation, image contrast, OCV/OCR etc.
	Inspection mode	PCB fully covered, with array and bad marking function
	SPC statistics function	Fully record the test data and make analysis, with high flexibility to check production and quality status
	Component Angle	Support 0 ~ 359 ° rotation, with a minimum angle distance of 1 °
	Minimum component	01005 chip, 0.3 pitch IC
Optical system	Camera	5 million pix full color high speed industrial digital camera , 20 million pix camera optional
	Lens resolution	10um/15um/18um/20um/25um, can be customized
	lighting source	Annular stereo multi-channel color light, RGB/RGBW/RGBR/RWBR base on demand, optional top axial light.
Computer system	OS	Win 7, 64bit
	Monitor	22 inch, 16:10
	VGA	Build in graphic card, (discrete graphic optional)
	CPU	Intel E3 or same level
	GPU	Optional
	RAM	16GB
	HDD	1TB , (SSD optional)
Software	Language	Chinese and English
	Access right control	Administrator, programmer and operator three-level login permission control
Mechanical system	Moving and inspection mode	Manual taking board in and out, Y servo motor driving PCB, X servo motor driving camera
	PCB fixed mode	Automatic fixture
	PCB dimension	20*20mm(Min)~450*350mm(Max), can be customized
	PCB thickness	0.3~5.0mm
	PCB weight	Max: 3KG
	PCB edge	3mm, can be custom-made base on need
	PCB bending	< 5mm or 3% of PCB Diagonal length
	PCB component height	Top: 35mm, Bottom: 75mm Adjustable, can be custom-made base on need
	XY driving system	AC servo motor, precise ball screw
	XY moving speed	Max: 830mm/s
	XY positioning accuracy	≤8um
General parameters	Machine dimension	L1200 * W900 * H1400 mm
	Power	AC220V, 50/60Hz, 1.2KW
	PCB height from ground	820±20mm
	Machine weight	400KG
	Safety standard	CE safety standard
	Environment temperature and humidity	10~35°C, 35~80% RH (un- condensing)
Optional	Maintenance station, offline programming system, SPC servo, bar code system, MES connection.	