



# AV 862 Series

*Automatic Optical Inspection Machine*



*Precise  
Efficient  
User Friendly*

# AV 862 Series Off Line AOI Machine

AV 862 Series has been enhanced with Image Based and Algorithm Analysis for more precise inspection. Improved structure and hardware for operation stability, speed, user friendly, quality control and productivity.

## Machine Characteristics

Graphic User Interface, Simple Programming, Optimized Learning Mode, Real Time 'NG' Verification

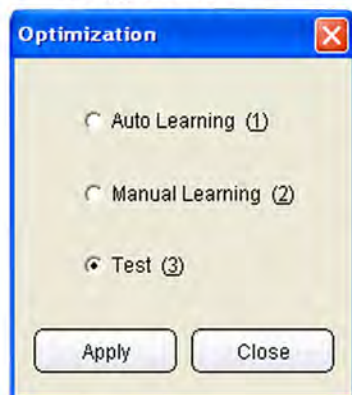
## Functions

- Programming By CPL Data
- Realtime Process Control
- Bad Board Auto Skip
- Program Optimization
- Multi Master Images
- OCR Recognition
- Component Data Export
- SPC and Image Export
- Barcode Reader (Optional)
- Rework Station (Optional)

### Machine Graphic User Interface



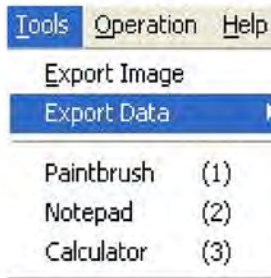
### Program Optimization



### OCR Recognition



### Data, Image Export



Good



No Good



Wrong Part    IC Leg Bend    Bridge    Damaged    Less Solder    Upside Down    Missing    No Solder    Polarity

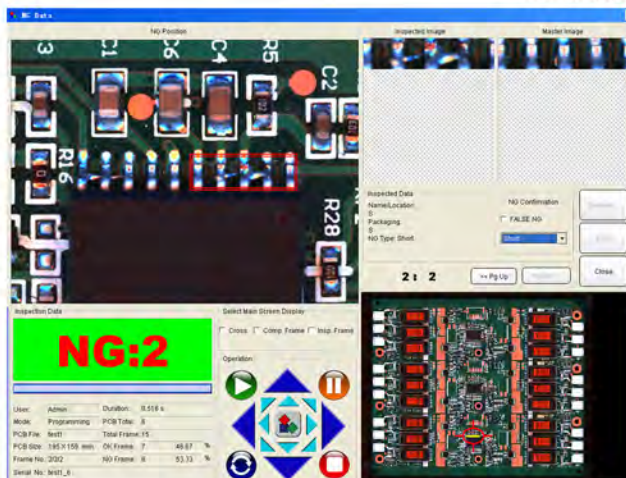
## Realtime Inspection Result

System instantly displays realtime 'NG' Data for verification.

## Performance

- Realtime Inspection Verification
- Stable PCB Holding Fixture
- Fast Tact Time
- Graphic User Interface
- Simple Programming
- Optimized Learning Mode
- Stable Structure
- Safety Light Curtain
- Minimum False 'NG' Detection
- Near 'Zero' Escape or Leak

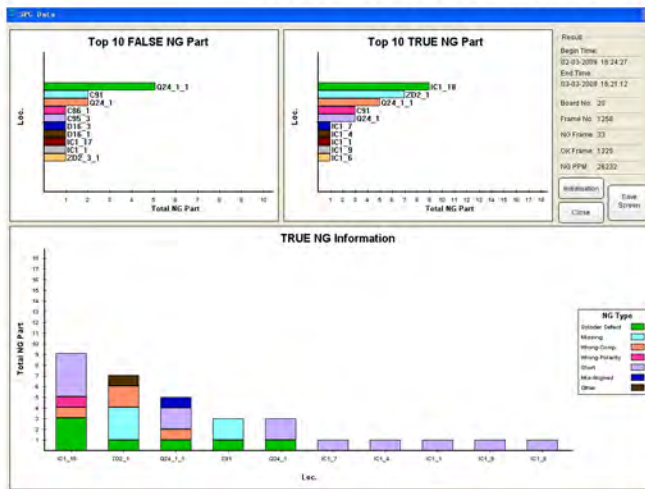
NG Data



Programming by CPL Data

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
1	10.374	10.079	90	1	
1_28	10.234	10.044	90	1_28	
1_28	10.884	10.234	90	1_28	
1_30	10.044	10.044	90	1_30	
1_30	17.844	10.044	90	1_30	
1_33	75.839	10.044	90	1_150	
1_34	62.509	10.044	90	1_151	
1_241	30.914	10.044	90	1_240	
1_241	53.154	10.044	90	1_241	
1_342	95.434	10.044	90	1_342	
1_342	95.314	10.044	90	1_343	
1_479	97.859	10.044	90	1_479	
1_479	100.904	10.044	90	1_477	
1_590	102.899	10.044	90	1_590	
1_591	110.924	10.044	90	1_591	
1_833	95.749	10.044	90	1_833	
1_888	97.959	10.044	90	1_988	
1_987	95.199	10.044	90	1_987	
1_1118	90.999	10.044	90	1_1118	
1_1118	95.044	10.044	90	1_1119	
1_1274	90.909	10.044	90	1_1274	
1_1274	90.959	10.044	90	1_1275	
1_1516	100.209	10.044	90	1_1516	
1_3463	109.819	10.044	90	1_3463	
1_2529	92.929	10.044	90	1_2529	
1_2529	94.324	10.044	90	1_2530	
1_2795	95.904	10.044	90	1_2795	
1_2795	95.904	10.044	90	1_2796	
1_3686	177.219	10.044	90	1_3686	
1_3686	178.079	10.044	90	1_3687	
1_3822	179.244	10.044	90	1_3822	

Statistical Process Control Data



Polarity Tomb Stone Shift Dry Joint

ASC INTERNATIONAL  
Inspection Made Easy



# AV 862 Off Line AOI Machine

## Specification

### Application

For Inspection SMT Components and Solder conditions

### Imaging Technology

Camera Industrial CCD Camera 0.3M / 1.3M-pixel  
 Field of View 12 x 16mm / 15 x 19mm / 24 x 32mm  
 Image Resolution 15um / 25um. ( 01005/Metrix 0.4 x 0.2mm)  
 Lighting Multi-Layers, Multi Color High Intensity LED

### Software

Interface Graphical Display  
 Language English and Chinese  
 Analysis Method Image Based with Algorithm Analysis  
 Inspection Techniques Auto Learning with Statistical Modeling Technology  
 Programming Method CAD Import, Board Copy or Manual  
 Character Recognition Optical Character Recognition (OCR)  
 Monitor and Reports Statistical Process Control, 'NG' Statistical Analysis  
 'NG' Confirmation Verification Station  
 Computer CPU P4, Duo Core, 1GB, 160GB

### System Specification

Inspection Speed 40cm<sup>2</sup> /Sec  
 Motion Max. Speed 700mm/Sec, Servo Motor  
 Component Height Top: 30mm Bottom: 50mm  
 Electrical Power 220VAC, 1ph, 50/60Hz, 1.0Kw  
 Operation Environment Temperature: 10°~ 40°C, Humidity: 30 ~ 80%RH  
 Optional Hand Held Barcode Reader, Rework Station

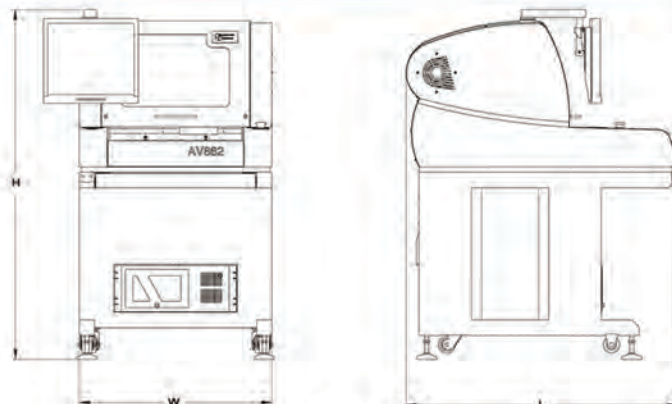
### AV 862 Range of Products

#### M Size

#### L Size

Machine Specification	Standard	Large
PCB Size (mm)	350 x 450mm	560 x 660mm
Machine Size (cm)	108(L)×76(W)×138(H)	133(L)×100(W)×148(H)
Weight (Kgs)	250Kgs	450Kgs

### Machine Dimension



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The above specification may change without notice.