

# Online AOI & AVI Rocket Series

**SCAN SPEED**  
**80 - 240mm/sec**  
**4.8 – 14.4m/min**



## VARIANTS

<b>AM 750</b>	29.5" x 25.6" / 750mm x 650mm	6 Cameras
<b>AM 900</b>	29.5" x 47.2" / 750mm x 1200mm	10 Cameras

- **Multifunctional optical inspection system** – for AOI & AVI
- **Double sided simultaneous detection** with fully automatic **color** camera alignment for high efficiency
- **800 scans / h @ 9.6m/min** (format 750mm x 650mm)
- **Online verification and AI** enables auto minimizing false alarms, reducing verification needs
- **Auto job recognition** improves throughput by matching Gerber with image data, allowing job change on the fly
- **Plug and Play** data preparation allows quick and easy setup,
- **Horizontal transport** optimized for rigid PCB with integrated Dust Cleaner
- Optional **Laser or Inkjet marking** function for enhanced traceability

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## MECHANICS

Number of CCD (horizontal)	6 (3 top & 3 bottom) 10 (5 top & 5 bottom)
Type of CCD	Colour (RGB)
Camera resolution	Pixel: 9.9 – 30 $\mu\text{m}$ (can be selected)
Software resolution	AVI: 3.3 – 10 $\mu\text{m}$
Line width/line spacing	AOI: 1.2mil / 1.2mil
Max scan area (x/y) AM 750	25.5" x 29.5"      650mm x 750mm
Max scan area (x/y) AM 900	29.5" x 47.2"      750mm x 1200mm
Min scan size (x/y)	7.9" x 7.9"      200mm x 200mm
PCB thickness	0.0039" – 0.2"      0.1 -5mm
Scan Speed	80 – 240mm/s (Depend on CCD resolution and inspection size)
Light source	Brightness adjustable multi angle combination LED light source
Detection mode	Image Contrast comparison & logic computing
Detectable Defects	<b>AVI Error:</b> SM on Pad, Exposed Copper, Dish downs, Trace Nicks, Broken SM Bridges, Missing SM, Legend Defects, Foreign Material, Inclusions, Gold Defects, Discoloration, Contamination, etc. <b>AOI Error:</b> Open, Short, nick, Protrusion, Pinhole, Island etc.
Surface Finish	<b>AVI:</b> HASL, Immersion Tin, Immersion Silver & Gold, Bare Copper, OSP, etc. <b>AOI:</b> After Etch board, Dry Film board, Film
Defect Confirmation	Online on machine or Offline on VRS

## DIMENSIONS – AM 750

Length	74.0"	1,880 mm
Width	59.0"	1,500 mm
Height	76.7"	1,950 mm
Weight	3,968.3 lbs	1800 kg

## DIMENSIONS – AM 900

Length	123.6"	3,140 mm
Width	59.0"	1,500 mm
Height	76.7"	1,950 mm
Weight	6,173 lbs	2800 kg

## ENVIRONMENTAL CONDITIONS

Power Supply	AC220V+10%(Single-phase, three wire)
Power	Rated 10KW/ Actual 6KW
Air-conditioning supply	Flow 500m <sup>3</sup> /h, temperature 20-25°C, relative humidity 40%-60%, pipe diameter $\phi$ 150mm
Air humidity	45 - 65% - not condensing
Room Temp.	62° - 95 °F      17 - 35 °C

## FEATURES & OPTIONS

### Hardware

- Dust Cleaner

### Software

- Offline Data Preparation Station – network connection to machine
- Verification Software
- Online verification: Fail alarms are adjustable during operation
- Verification Station: network connection to machine
- Auto job recognition: Jobs available in data preparation queue will be matched with acquired image

### Upgrade Options:

- Laser marker or Ink marker

## SOFTWARE

User software	Windows 10, English Version
Data input formats	Gerber

