

A3000V Fully Auto AOI System

Highly Accurate, Reliable, and Repeatable Inspection Solutions

The A3000V employs a high-resolution 25M camera and motorized objective lens turret to capture the clearest images with little effort. The system can run double-sided inspection in one process with the resolution at 0.9μm/pixel. A variety of inspection algorithms and lighting modes are available to fit different industry inspection requirements. The A3000V provides incredible convenient operation and delivers defect inspection results that are accurate and repeatable over time.

Optimized Performance
Precision Inspection
High Flexibility



1 HIGH ACCURACY DEFECT DETECTION

- Double-sided inspection* for PD/LD/VCSEL/LED die surface defects
- High resolution 25M mono camera
- Motorized objective lens turret
- Flexible RGB illumination modes



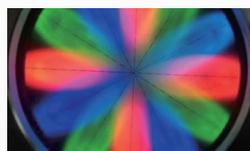
High Resolution Vision System



APPLICATIONS

2 SUPERIOR INSPECTION SUPPORT

- OCR/2D code reading ensures data traceability*
- Versatile defect inspection algorithm
- Review tool to re-verify or edit the inspection result manually offline
- Offline re-calculating inspection data at different parameters



Multiple Light Sources



Versatile Handling Carrier Support



Back Side Inspection



Search Keyword

AOI System

Get more information by visiting mpi-corporation.com

3 VERSATILE CONFIGURATION FLEXIBILITY

From a single stand-alone AOI machine to a highly integrated AOI system process chain, we can optimize your production quality with the right automation solution according to your specific requirements.

Configuration Examples



AOI System



AOI System with Loader



2 AOI Systems with Loader

4 TECHNICAL DATA

Inspection System

Top View Camera	25MP mono CMOS image sensor
Lighting	RGB LED Inner coaxial lighting
Light Source	Ring Lighting Back Lighting
Objective Lens	5X (selectable)
Typical Throughput ^[1]	60pcs/hr
Optical Resolution ^[2]	0.9µm/pixel
Inspecting Area ^[3]	6" 175mm 8" 225mm
Operating System	Win. 7 (IPC)
No. of Test Station	2

Material Handling Capability

Wafer	2"~8"
Grip Ring	GR4, GR5, GR6, GR8
Grip Ring Metal Frame	195, 205

Material Handling Capability (Cont'd)

Bin Frame	195, 205
Mask	3"~8"

Loader System

Cassette Capacity	Up to 4
Exchange Time	10s (include pre-loading)

Facility Requirement

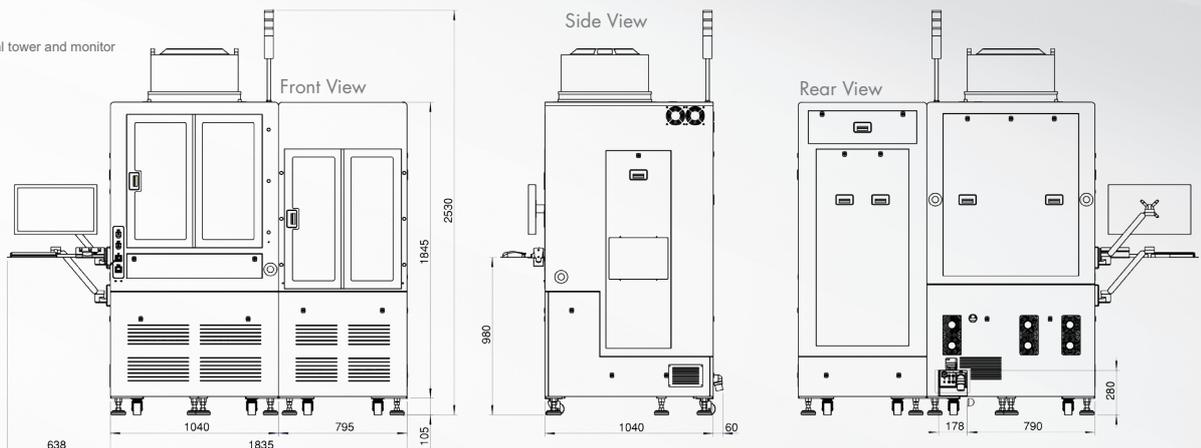
Power	AC 220V single phase; 50/60 Hz; 1.9KW
Vacuum	0.9 kg/cm ² @ 1 LPM flow rate (Φ6)
Clean Dry Air (CDA)	6kg/cm ² @ 2 LPM flow rate
Clean Room	Class 1,000/Class 10,000

Mechanical

Dimensions(WxDxH) ^[4]	1835mm x 1040mm x 1845mm (72" x 41" x 73")
Weight	900 kg / 1985 lbs

[1] Calculated on GR-5
 [2] With 5X objective lens
 [3] Include Back Side Inspection
 [4] Dimensions are approximate. Not include signal tower and monitor

Subject to change without notice.



unit: mm