

# MVP 900 Series

## Automated Optical Inspection for Microelectronics, Semiconductor Inspection and Hybrid Assemblies

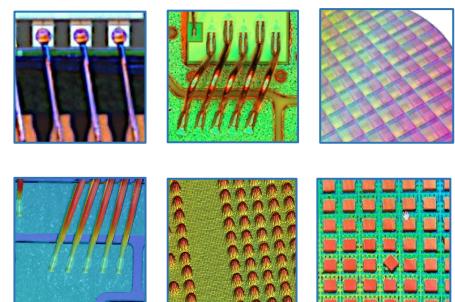


### MVP 900 Series

The 900 series is a modular AOI Inspection platform provides a range of advanced optic and handling solutions including 3D, high-resolution imaging and quad color lighting. Camera and optics are scalable to resolutions below 1 Micron. In addition, a range of custom material handling configurations are available including; magazine handling, strip handling, tray handling and wafer handling.

### Key Features

- **Inspection Capabilities**
  - Microscopic Objective
  - High Resolution 3D
  - Metrology
  - Hybrid Assemblies
  - 100-300mm Wafer
  - Wafer-Frame
  - Lead-Frame
  - Full Wire-Bond
  - Micro-electronics
  - Packaging
- **Class 100, ISO 5 Options**
- **High Throughput**



# MVP 900 Series

# MVP “AOI Elevated”

Model	MVP 900 Series			
Version	900	+ LP7	+ LP15	+ Micro
Performance				
Inspection Capability	Microelectronics, Wire Bond, Lead Frame, Hybrid Electronics, Die, Surface Inspection, Ceramics, Thick Film, Automotive, Wafer, Flux, Conformal, Epoxy, Glue, RF, BGA, Metrology			
Programming Speed	Enhanced tools to allow you to generate programs with or without CAD			
Motion System X and Y	Precision X/Y stage with 0.5 micron positional resolution			
Optical Resolution	Options <sup>2</sup> from 0.3-5um			
Optics				
Optics Camera	25mp			
Optics Illumination	Quad Color			
3D Optics				
3D Measuring Principle	3D Lighting	Laser Profiler	Laser Profiler	Microscopic
3D Speed <sup>1</sup> (CM <sup>2</sup> /s)		0.5	2.6	Application Dependent
3D Sensor X-Y Resolution (um)		2.5	5	250-350nm
3D Sensor Z Repeatability (um) <sup>5</sup>		0.3	0.4	0.5
Max Component Clearance (mm)	35			
Software				
Offline Program Generation	ePro			
Program Debug Environment	iPro and Validate			
SPC and Reporting	AutoData DPC - Sql based data reporting ELSR - End Lot Summary Reporting Optional: AutoData, line integration to paste systems			
CAD and Gerber Inputs	Standard, Placement, Gerber and ODB++ data import			
Defect Review	In-Line or Off-Line defect review using iRepair			
Multi-Pass	Programmable heights and lighting per pass			
Validate <sup>6</sup>	Automated Program Validation			
System				
Computer	Intel Based - Multi Processor Architecture Fast 1TB SSD Hard Drive - 32-256GB Memory			
Operating System	Linux based Multi-Threading Ubuntu Operating System			
Data Integration Options	SECS/GEM, AutoData, DPC			
Networking	Full network integration (TCP/IP, NFS Protocol)			
Physical				
Inspection Envelope <sup>3</sup>	355mm (14") x 355mm (14") <sup>3</sup>			
Product Thickness <sup>4</sup>	0.254 - 12.5mm (0.01 - 0.5")			
Magazine Support <sup>3</sup> (DWMS)	Width 35-140mm, Length 145-306mm, Height 100-200mm <sup>3</sup>			
Lead Frames <sup>7</sup> (DWMS - No Lift)	Width 28-133mm, Length 140-306mm, Thickness 0.1-1.5mm <sup>6</sup>			
Clearance	Top Side to 50.8mm (2")			
Conveyor Height	SMEMA			
Footprint	844mm (33.25") W x 1066mm (42") D x 1473mm (58") H			
Conveyor Length	850mm (33.46")			
Power	208-240VAC 50/60Hz, 10A (Optional 110V)			
Air	60 PSI, 1CFM			
Weight	680 kgs (1500 lbs.)			
Compliance	S2/S8 - CE - (UL Optional)			

<sup>1</sup> Using standard resolution, quarter range. Scan speed can be increased using larger profile steps.

<sup>2</sup> Dependent on camera and lens configurations.

<sup>3</sup> Please check final chosen configuration, some options can change inspectable area and board size.

These include Vacuum Fixtures, Handling and Optics Options. Loader/Unloader specifications are detailed separately.

<sup>4</sup> Flex Circuits, Non-Rigid boards will require fixturing. 12.5mm is an advisory for board thickness.

<sup>5</sup> Static repeatability using MVP calibration target.

<sup>6</sup> Program Dependant.

<sup>7</sup> Lead frame widths for a system using edge lifters. If a center lift is used the custom dimensions will be provided with the design.

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## MVP 900 Series - Hybrid, Die and Wire-Bond Inspection and much more.

Focused on Quality, Metrology and Automation, the 900 series provide automated inspection and measurement solutions to the semiconductor, micro-electronics and high-reliability markets.

MVPs 900 platforms provide the highest resolution 2D & 3D capabilities and optics for Semiconductor, Microelectronics, Die, Wire-Bond and Metrology.

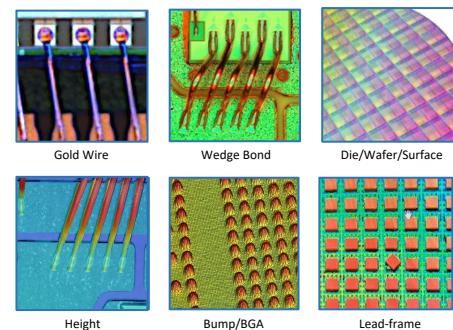
Using high resolution 3D systems, 12MP cameras, multi-tier lighting and multi-pass technology MVPs 900 series can provide the inspection coverage while achieving the required UPH.

MVP's proprietary algorithms allow for inspection and metrology on all microelectronics.

Automation is key to the 900's flexibility. Using MVPs integrated handling options, the system can provide standardized automation for all processes.



For line integration the 900 series uses SECS/GEM, e-Maps, AutoData SQL integration and ELSRs to provide accurate manufacturing data.



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