



Automated Optical Inspection for SPI & SMT Inspection

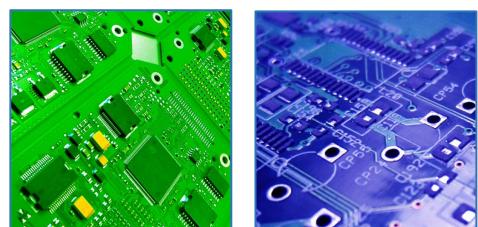


MVP Versa, Versa Duo and Versa Pro

The Versa platforms combine 3D technologies and MVP's advanced optic systems to allow user to benefit from the superb detection of complex defects using MVP's proprietary, advanced algorithms. Configured with multiple 3D options and standard metrology capability the Versa series of solutions are ultimately flexible for SPI, Pre-Reflow, Post-Reflow or Post-Wave inspection.

Key Features

- SPI and SMT Inspection
- Versa
 - High Resolution Optics
- Versa Duo
 - High Resolution Optics and Laser Profiler
- Versa Pro
 - Projector Based
- Fast Easy-To-Use
- Measurement Based AOI
- High Throughput with Proven Reliable Hardware
- 01005 Solder Joint Inspection



Versa Series

MVP “AOI Elevated”

Model	Versa Series					
Version	Versa	Versa Duo	Versa Pro			
Performance						
Inspection Capability	Paste, Pre-Reflow, Post-Reflow, Post-Wave, Selective Solder, BGA, Metrology based measurement tools					
Programming Speed	Standard SPI and AOI programs are generated in 10-30 mins					
Motion System X and Y	Precision X/Y stage with 0.5 micron positional resolution					
Optical Resolution	Options ² from 3.5-20um ⁸					
Optics						
Optics Camera	25mp		9.5mp			
Optics Illumination	Quad Color		White			
3D Measurement System						
3D Measuring Principle	3D Lighting	Laser Profiler		Quad Moiré		
3D Speed ¹ (Typical CM ² /s)		16	2.6	25		
3D Sensor X-Y Resolution (um)		12.5	5	19.6		
3D Sensor Z Repeatability (um) ⁵		0.5	0.4	1		
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 ⁷	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					
Networking	Full network integration (TCP/IP, NFS Protocol)					
Physical						
Inspection Envelope ³	508mm (20") x 457mm (18") ³					
Board Thickness ⁴	0.254 - 12.5mm (0.01 - .5")					
Clearance	Top Side to 50.8mm (2")					
Conveyor Height	SMEMA					
Footprint	990mm (39") W x 1100mm (43") D x 1580mm (62") H					
Conveyor Length	996mm (39")					
Power	208-240VAC 50/60Hz, 10A (Optional 110V)					
Air	60 PSI, 1CFM					
Weight ⁶	500 kgs (1100 lbs.)					
Compliance	CE - (UL Optional)					

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

² Dependent on camera and lens configurations.

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

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

⁵ Static repeatability using MVP calibration target.

⁶ Base Versa System

⁷ Program Dependant

⁸ Product Dependent - Flatness will affect higher resolutions.

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MVP Versa, Versa Duo and Versa Pro - SPI and SMT inspection.

The Versa systems deploy the highest speed interfaces, computers, optics and 3D technologies to provide the fastest inspection times without compromising defect detection.

MVP’s Flying Stage combined with Quad-Color and 3D technology and allows faster inspection cycle times while increasing inspection capabilities. Additionally, with enhanced defect coverage, false rejects are minimized.

The Versa series of AOI solutions complements MVP’s wide range of award winning AOI products and allow for the introduction of versatile and flexible solutions with the capability to increase performance and speed metrics at the same time.

- **MVP’s Fastest AOI Platform**
- **Flexible, Reliable and Robust Hardware**
- **3D Profilers and Projectors**
- **Combined 2D & 3D optics packages**
- **SPI, SMT & Hybrid Inspection**
- **Easy-To-Use Performance Based Programming**
- **01005 Solder Joint Inspection**



Worldwide Headquarters
Vista, California, USA.
+1 (760) 438-1138
sales@visionpro.com

European Headquarters
Fife, Scotland, UK.
+44 (0) 1383 842861
saleseurope@visionpro.com

Asia-Pacific Headquarters,
Xuhui, Shanghai, PR China.
+86 172 059 60328
salesasia@visionpro.com

Machine Vision Products, Inc., 3270D Corporate View, Vista, CA 92081

phone +1 (760) 438-1138 - sales@visionpro.com - www.machinevisionproducts.com