MVP
Machine Vision Products

Microelectronics • SMT • SPi • Packaging

The Full Spectrum of AOI Solutions

AutoInspector Series - Ultra V - High Speed AOI

The **Ultra V** Series deploys the highest speed interfaces, computers and camera technologies to provide the fastest inspection times without compromising defect detection. The Ultra V is configured, as standard, for board handling of 20" x 20" (508mm x 508mm). The Ultra V XL, with board indexing, provides for board handling of 20" x 30" (508mm x 762mm). MVP's Flying Stage combined with Quad-Color Technology allows faster inspection cycle times while increasing inspection capabilities. Additionally, with enhanced defect coverage, false rejects are minimized. The Ultra V and Ultra V XL complement MVP's wide range of award winning AOI products and allow for the introduction of flexible solutions with the capability to increase performance and speed metrics at the same time.

MVP's Fastest AOI Platform

Flexible, Reliable and Robust

High Resolution Telecentric Optics

8 Megapixel Color Camera

10um Resolution Standard

64 bit Operating System

Optional 3D Paste Inspection

Easy-To-Use Performance Based Programming

01005 Solder Joint Inspection, Certified

Discuss your SMT and Microelectronics inspection application with Machine Vision Products, Inc and discover your solution
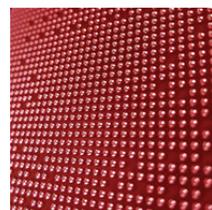
| SMT AOI | 3D Paste AOI | BGA AOI | Wire Bond AOI | Die and Epoxy AOI | Die Surface AOI |
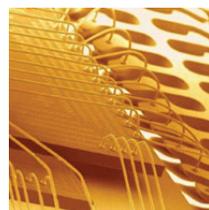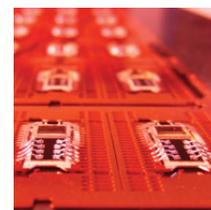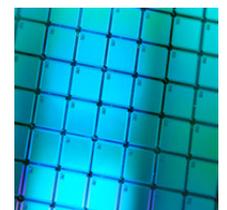
Ultra V Technical Specifications

Inspection Speed	• Acquisition Speed of 120 Megapixels per Second with a Single 8MP Camera • Up to 90 sq.cm per Second (14 sq.inches per second) Inspection Dependant on Board Layout, Density and Field of View	**Material Handling**	• SMEMA Interface • Flexible PLC Control • Auto Board Clamp for Precision Registration • Single and Dual Lane • Support for Thin and Standard PCB Processing
System Hardware	• State-of-the-art Large Format Color Camera • Proprietary "On-the-fly" Camera Acquisition • Programmable Variable LED Strobe Lighting • Proprietary Quad-Color Illumination • Standard resolution 10um • 0201 and 01005 Capable • Copy-exact, Inter-machine Capability • High Precision X/Y Stage with 0.5 Micron Linear Scales, Closed-loop Linear Servo Motors for Fast Acceleration and Speed	**Physical Specification**	• Ultra V Board Handling 508mm x 508mm (20" x 20") • Ultra V Inspection Envelope 483mm x 508mm (19" x 20") • Ultra V XL Inspection Envelope 508mm x 762mm (20" x 30") • Footprint 1000 W x 1100mm D • Height 1580mm (62") • Conveyor Length 1143mm (45") • Power 220-240VAC 50/60Hz, 10A • Air 60 PSI, 1CFM • Weight 680kgs (1500 lbs)
System Software	• CAD-driven, Library-based Programming Software • 64bit System Architecture • Proven High Performance, Adaptable Algorithms with Highest Detectability and Lowest PPM False Accept and False Reject Rates • Full Network Integration (TCP/IP, NFS Protocol) • Off-line or In-line Defect Review Capability • Defect Image Archive Capability • Real-time SPC Package • Report Generation Utilities for Production Inspection Measurements • Inspection Program Change Tracking • 5th Generation Proven Inspection Software • Multi-pass Technology, Adjustable Lighting Intensity • MVP Dynamic Process Control Compatible	**System Configurations**	• MVP Ultra V • MVP Ultra V XL
		Options	• 3D Paste Volume Inspection • CAD Translation Software • Three Section Conveyor for Improved Cycle Time • Off-line Programming Capability • Top Side Reference Lifters • AutoWidth • Programmable Z-Axis Control Function • MVP Dynamic Process Control • Ceramic Process Material Handling

Information contained in this document is summary in nature and is subject to change without notice. Apperance of the final, delivered product may vary from the photographs shown herein.

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