



MACHINE VISION PRODUCTS

our
Vision
your Success

AutoInspector Series - Spectra

Large Format AOI

The **Spectra** Series Quad-Color Technology system is MVP's large format AOI solution. The Spectra has a standard handling size of 24" x 24" (610mm x 610mm). The optional Spectra XL is configured with board indexing and capable of inspecting boards up to 24" x 36" (610mm x 915mm). The Spectra and Spectra XL are the solutions for large board production lines. Configured with a high resolution 5MP camera and Quad-Color light as standard, the Spectra series provides the ability to use multiple angles of light to determine different characteristics of each component and lead inspected all from a single image. Quad-Color technology combined with MVP's flying stage allows for faster inspection cycle times while increasing inspection capabilities. Additionally, with enhanced defect coverage, false rejects are minimized.

Maximum Board Size 24" x 36"

Flexible, Reliable and Robust Measurements

Optional 3D Paste Inspection

High Resolution Telecentric optics

5 Megapixel Color Camera

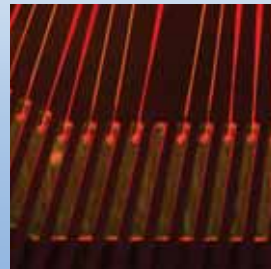
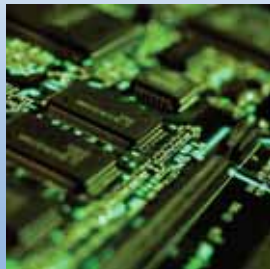
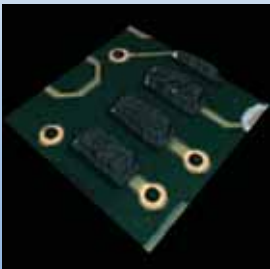
10um Resolution Standard

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



the vision to improve your process

Machine Vision Products, Inc., 5940 Darwin Ct., Carlsbad, CA 92008

phone 760.438.1138 . fax 760.438.0660 . sales@machinevisionproducts.com . <http://www.visionpro.com>



Spectra Series Technical Specifications

Inspection Speed

- Acquisition Speed of 75 Megapixels per Second with a Single 5MP 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 Multi-color Illumination
- Standard Resolution 10um
- 0201 and 01005 Capable
- Copy-exact, Inter-machine Capability
- Triple High Precision X/Y Stage with 0.5 Micron Linear Scales, Closed-loop Linear Servo Motors for Fast Acceleration and Speed

Physical Specification

- Spectra Standard Inspection Envelope 610 x 610mm (24" x 24")
- Spectra XL Inspection Envelope 610 x 915mm (24" x 36")
- Board Handling Capability up to 660 x 965mm (26" x 38") on XL
- Footprint 1496mm x 1652mm (59" x 65")
- Height 1602mm (63")
- Conveyor Length 1600mm
- Power 220-240VAC 50/60Hz, 10A
- Air 60 PSI, 1CFM
- Weight 945kgs (2100 lbs)

System Software

- CAD-driven, Library-based Programming Software
- 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 Spectra
- MVP Spectra XL

Options

- 3D Paste Volume Inspection
- Center Board Support
- 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

Worldwide Headquarters
Carlsbad, California, USA.
800.260.4MVP or 760.438.1138
sales@visionpro.com

European Headquarters
Fife, Scotland, UK.
+44 (0) 1383 629960
saleseurope@visionpro.com

Asia-Pacific Headquarters,
Shanghai, P.R.C.
+86.21.6115.2060
salesasia@visionpro.com

our
Vision
your Success