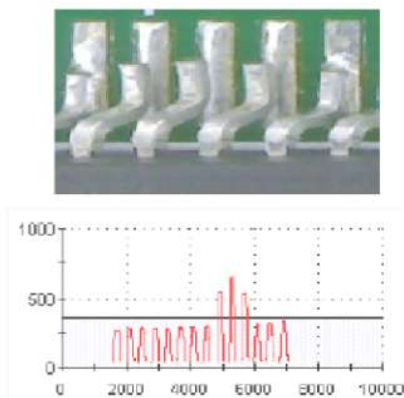


TECHNOLOGICALLY ADVANCED

MV-7  
Series

MIRTEC 

- Five Camera In-Line AOI System
- **FIVE MEGA PIXEL** Digital Color Camera Technology
- Precision **TELECENTRIC** Compound Lens Design
- 9.8 Micron / Pixel Resolution
- Extremely Simple Programming and Operation
- Unsurpassed Defect Detection
- "World Class" Global Customer Support



- Integrated **INTELLI-SCAN** Laser Inspection System
- Superior Lifted Lead Detection For Gull Wing Devices
- Four Point Height Measurement For Co-Planarity Testing Of BGA and CSP Devices
- Enhanced Solder Paste Measurement Capability



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## MV-7 Series Features and Specifications

### 1. Standard Features :

- Pentium™ IV PC, 19" Flat Screen LCD Monitor, Windows XP™ OS, HDD, Mouse & Keyboard, Network LAN Card.
- Adjustable PCB Work Fixture, Safety Light Curtain.
- Three (3) Layer Programmable LED Light Source (Horizontal, Vertical, Coaxial).
- Pre and Post Reflow Inspection Capability.
- Automatic Teaching Software w/ Comprehensive Package Type Library for Simple "Drag and Drop" Programming.
- Local Software: Repair Plus Software, Statistical Process Control (SPC) Software.

### 2. Options :

- Two, Four or Five Mega Pixel Top-Down View Digital Color Camera System (See Specifications).
- Side View Camera System - Quantity (4) Two or Five Mega Pixel Side View Digital Color Cameras (See Specifications).
- Intelli-Beam Laser System - Z-Height Measurement Capability for BGA and CSP Devices.
- NG Marking System – Clearly Marks Position of Defects with a Water Soluble Ink Dot.
- 2D Bar Code Reader - Gun Type - 2D Bar Code Reading Capability Using Handheld Gun Type Reader.
- 2D Bar Code Reader - Camera Type - 2D Bar Code Reading Capability Using the Top Down Camera System.
- Remote Software: Off Line Programming, Remote Repair Plus, Remote SPC, Remote Management (PC Required).
- Inspection System Moveable Workstation.

### System Specifications :

Top-Down View Camera Options	Field Of View
5Mega Pixel Camera Option	44.7mm x 37.4mm (1.76" x 1.48")
5Mega Pixel Camera Option 2	32.9mm x 27.5mm (1.30" x 1.08")
5Mega Pixel Camera Option 3	24.0mm x 20.1mm (0.94" x 0.79")
10Mega Pixel Camera Option	66.6mm x 49.7mm
10Mega Pixel Camera Option 2	49.0mm x 36.6mm
10Mega Pixel Camera Option 3	35.9mm x 26.8mm
15Mega Pixel Camera Option	77.7mm x 77.7mm
15Mega Pixel Camera Option 2	38.8mm x 38.8mm
Side View Camera System	5 MEG : 2,456 * 2,058 Pixels Digital Color Cameras
	10 MEG : 3,664 * 2,736 Pixels Digital Color Cameras
	15 MEG : 3,888 * 3,888 Pixels Digital Color Cameras
Laser sensor	Z-height Repeating Measurement Accuracy : ±20um (Resolution :15um/point)
Bottom Side Component Clearance	45mm (1.77") from bottom of PCB surface
Min. Component Absence / Presence	01005 chip component.
Min. Component Marking OCR	0402 chip component.
Inspection Speed:	0.20 sec / frame.
Fiducial Mark Recognition Time	1.5 sec/ 2 point
Positioning System	X-Axis (200W) Servo Motor, Y-Axis (400W) Servo Motor
Resolution	1 µm
Repeatability	±10 µm
Maximum Speed	900mm/sec
Power Requirements	110-220 VAC ± 10%; 50/60 Hertz; 5 Amps
Model Number	PCB Size Range
MV-7XI	50mm * 50mm to 510mm * 400mm
MV-7XI D	50mm * 50mm to 600mm * 250mm
MV-7U	50mm * 50mm to 660mm * 510mm
Model Number	Machine Dimensions
MV-7XI	1,000 (W) * 1,400 (D) * 1,450 (H) mm
MV-7XI D	1,150 (W) * 1,530 (D) * 1,450 (H) mm
MV-7U	1,150 (W) * 1,450 (D) * 1,450 (H) mm
Model Number	Weight
MV-7XI	800Kg
MV-7XI D	1,200Kg
MV-7U	1,000Kg