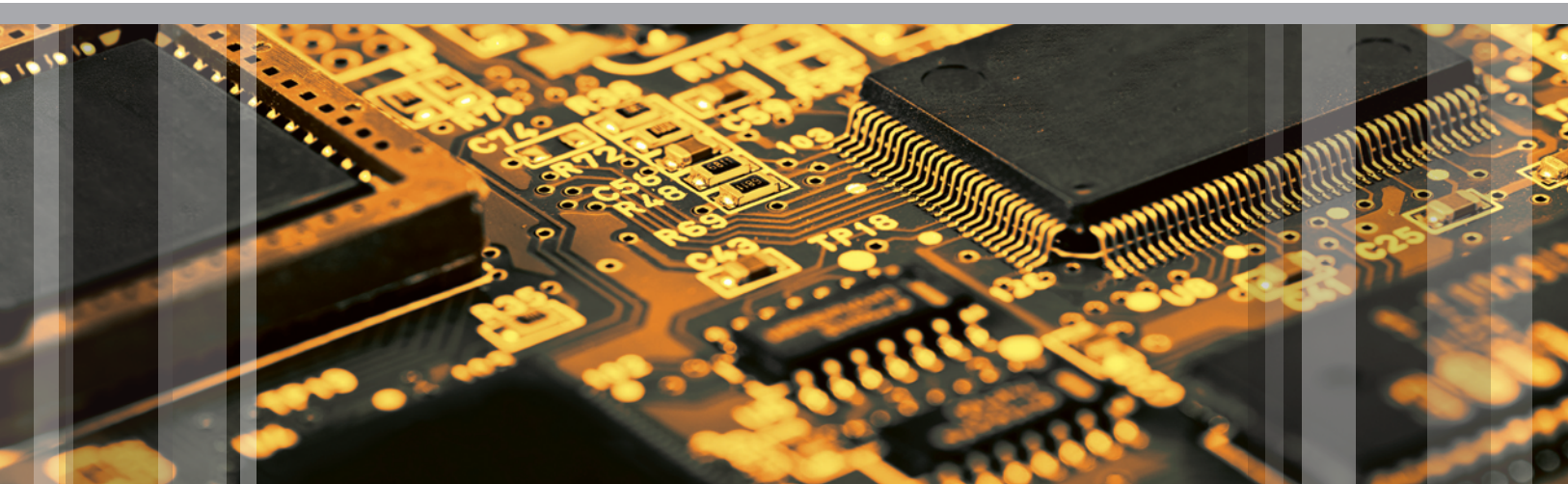


2D AOI Series

MV-3L



- 10 Megapixel Top Camera
- Telecentric Lens
- Intelli-Beam[®] Laser Technology
- 10 Megapixel Side-Viewer[®]
- 8 Phase Coaxial Color Light

2D AOI Series

MV-3L

MV-3 Series is a Desktop AOI product of Mirtec. It is an off-line vision inspector with 10 Megapixel camera, laser scan, 10 Megapixel side cameras and 8 phase coaxial color lighting system applied to give optimal results to various production processes.

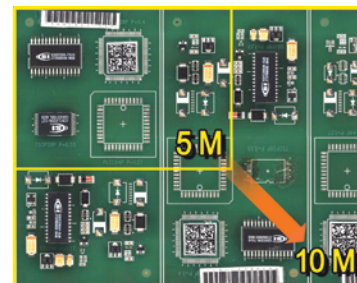


The World's First High Resolution 10 Megapixel Camera

With 10 Megapixel high resolution camera more precise and stable inspection is possible and with 4 additional 10 Megapixel side camera gives an outstanding inspection quality and user convenience.

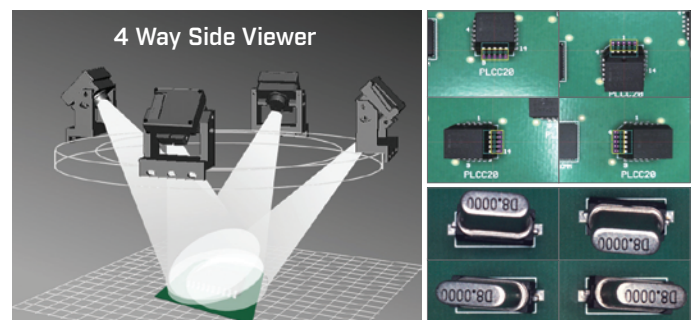
10 Megapixel Top Camera

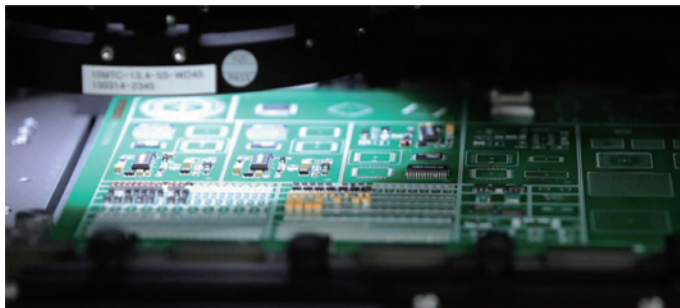
- Large FOV to give 40% increased speed compared to previous 5 Megapixel camera
- 0402 Chip / 0.3 Pitch (mm) IC lead capability



10 Megapixel Side Viewer®

- 4 cameras in EWSN applied
- The only J-lead inspection solution
- Convenient naked eye verification after inspection

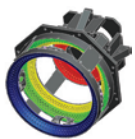




8 Phase Coaxial Color Lighting System for Higher Precision

Through 8 different lights combination a clear noise-free image is obtained to give various types of precise defect detection.

Color change extraction following angle of reflection
Ideal for Chip / IC lead lift and solder joint defect detection
Precise Solder Joint inspection

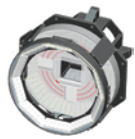


6 Phase Color Light

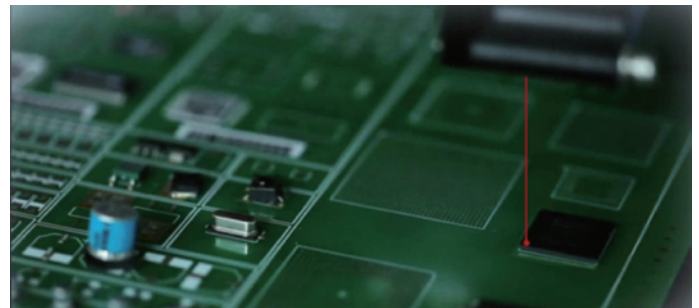
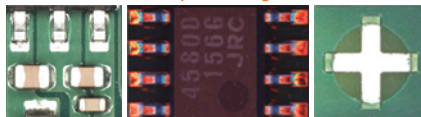


Previous image

Improved image



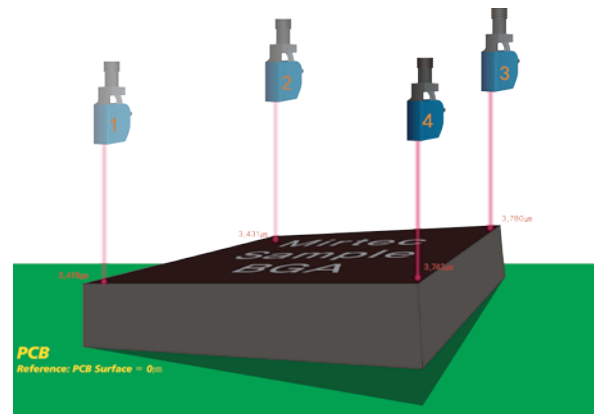
8 Phase Coaxial Color Light



Intelli-Beam® Precise Lift Detection

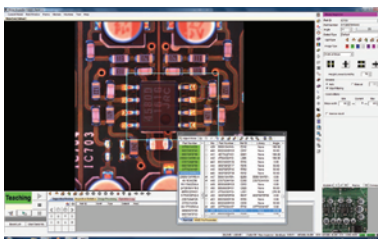
IC lead/CSP/BGA defect found by laser beam.
Intelli-Beam® is the optimal solution in inspecting for component lift.

- With precise Laser Beam 8μm unit height measurement
- IC Lead/package fine lift detection
- With Laser Unit rotation, component/lead interruption minimized.
- Asymmetric connection lead lift detection



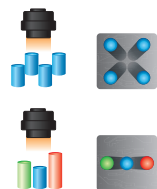
Strong User Convenience

User friendly GUI
Automatic teaching with use of Enormous Library; beginners can teach easily.
Minimized saving space with defect part image compression.

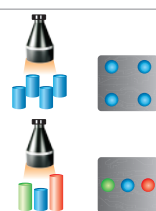


Telecentric Lens

- Image distortion found in general lens are removed.
- Clearer image
- Precise inspection



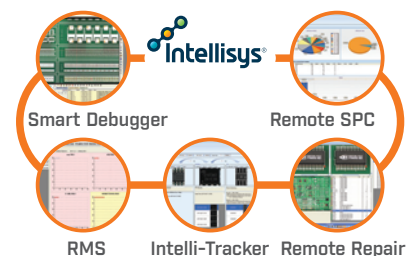
Conventional Lens



Telecentric Lens

Intellisys® System

When a defect occurs in the line, understanding in advance as well as remote control is possible while reducing costs from defective products



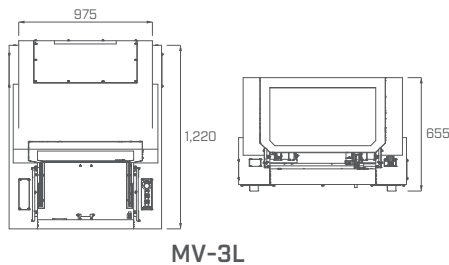
Specifications

Model			MV-3L	MV-3U	MV-3UP
Max PCB Size Range					
Desktop AOI (mm)	Normal	50 × 50 - 450 × 400		50 × 50 - 660 × 510	50 × 50 - 800 × 510
	With NG Marker	50 × 50 - 410 × 400			
Maximum Inspection Speed					
10 Megapixel Camera	Type 1 (13.4 μ m)	5,293mm ² /Sec			
	Type 2 (9.8 μ m)	3,007mm ² /Sec			
5 Megapixel Camera	Type 1 (13.4 μ m)	2,918mm ² /Sec			
	Type 2 (9.8 μ m)	1,669mm ² /Sec			
Inspection Item					
Minimum Component Inspection	Type 1 (13.4 μ m)	0603 Chip (mm) / 0201 Chip (Inch) / 0.4 Pitch (mm)			
	Type 2 (9.8 μ m)	0402 Chip (mm) / 01005 Chip (Inch) / 0.3 Pitch (mm)			
System Specification					
Lighting System		8 Phase Coaxial Color Lighting System			
Side Viewer* Camera System (Option)		10 Megapixel Digital Color Cameras (4 set) / 5 Megapixel Digital Color Cameras (4set)			
Laser Inspection System (Option)	Intelli-Beam*	Laser Resolution	8 μ m / Point		
		Measurement Accuracy	±20 μ m		
PCB Top Side Clearance	8 Phase Coaxial Color Light	Standard	45mm		
		Standard	25mm		
	3 Phase White Light	Option	45mm		
PCB Bottom Side Clearance		45mm			
PCB Thickness		0.5mm - 3mm			
Maximum PCB Weight		3kg			
Software		Standard	Built-In SPC, Built-In Repair, ePM-AOI		
		Option	RRS, IRS, OLTT, Smart Debugger, SPC Server System		
Robot Positioning System		Closed Loop Stepping Motor System			
Power Requirement		Single Phase(s) 100-240v 50-60Hz, 1.1KW			
PC		Intel i7 / 32GB RAM / Windows 7 Professional 64 Bit			
Breaker Capacity		7A			
Air Requirement		N/A			
Dimension and Weight					
Machine Only	Dimension (mm)		975(W) × 1,220(D), × 655(H)	1,185(W) × 1,455(D), × 690(H)	1,185(W) × 1,455(D), × 690(H)
	Weight (kg)		Approx. 160	Approx. 300	Approx. 300
Machine with Worktable	Dimension (mm)		1,005(W) × 1,220(D), × 1,415(H)	1,185(W) × 1,455(D), × 1,450(H)	1,185(W) × 1,455(D), × 1,450(H)
	Weight (kg)		Approx. 350	Approx. 500	Approx. 500

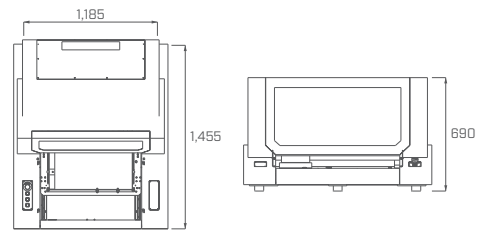
• We will not be responsible for any problems caused by using unverified BARCODE READER. Contact our HQ for the list of allowed BARCODE READER models to use.

Dimension

unit : mm



MV-3L



MV-3U



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• Sales / CS : +82-1544-1062

• Data subject to change without notice.