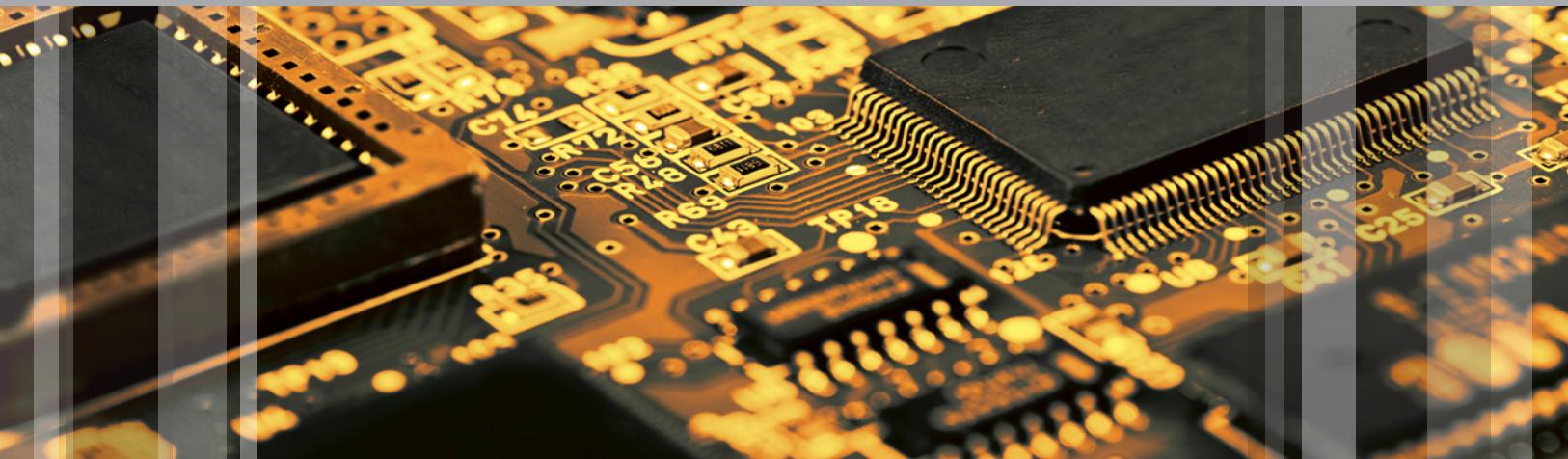


2D AOI Series

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.

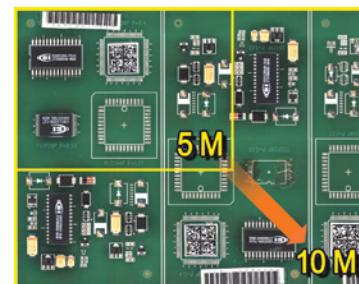


The World's First High Resolution 10 Megapixel Camera

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.

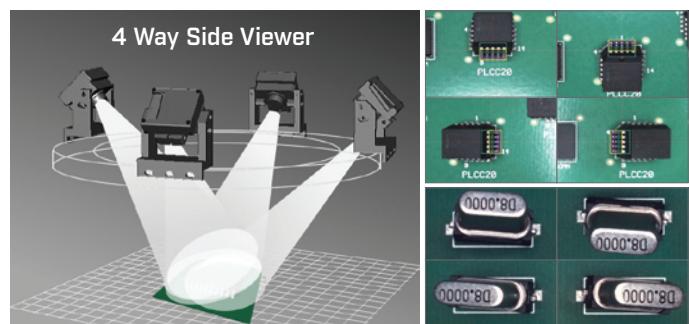
10 Megapixel Top Camera

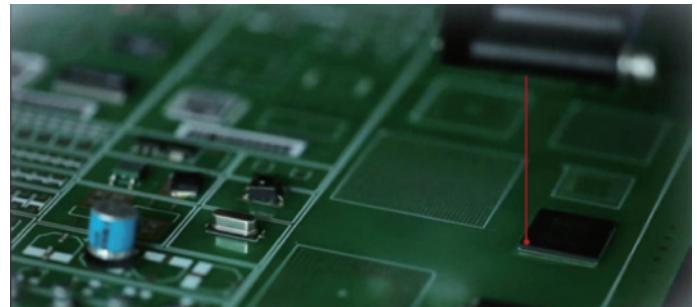
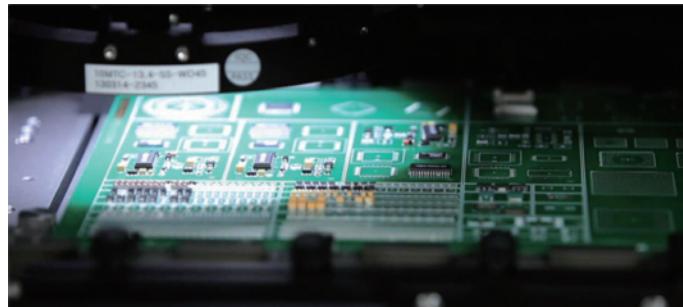
- Large FOV to give 40% increased speed compared to previous 5 Megapixel camera
- 0402 Chip / 0.3 Pitch [mm] IC lead capability



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.

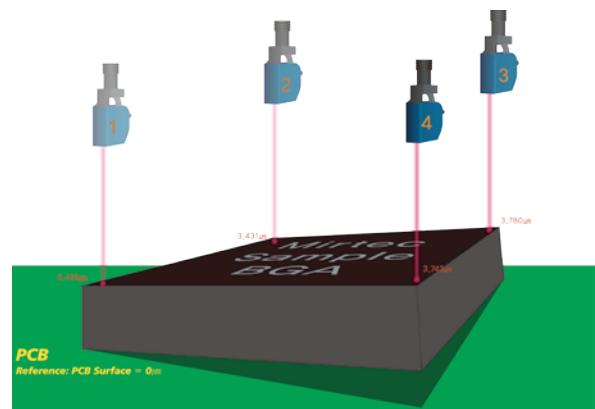
Color change extraction following angle of reflection
Ideal for Chip / IC lead lift and solder joint defect detection
Precise Solder Joint inspection



Intelli-Beam® Precise Lift Detection

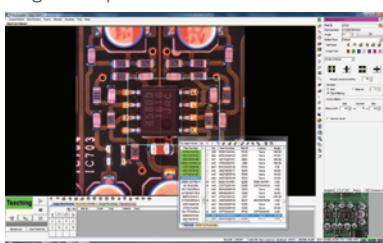
IC lead/CSP/BGA defect found by laser beam.
Intelli-Beam® is the optimal solution in inspecting for component lift.

- With precise Laser Beam $8\mu\text{m}$ unit height measurement
- IC Lead/package fine lift detection
- With Laser Unit rotation, component/lead interruption minimized.
- Asymmetric connection lead lift detection



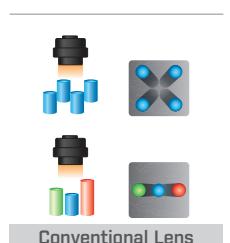
Strong User Convenience

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



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



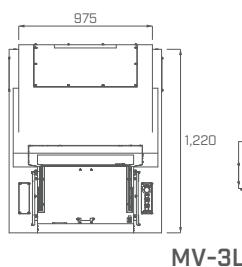
Specifications

Model	MV-3L	MV-3U	MV-3UP	
Max PCB Size Range				
Desktop AOI (mm)	Normal With NG Marker	50 × 50 ~ 450 × 400 50 × 50 ~ 410 × 400	50 × 50 ~ 660 × 510	50 × 50 ~ 800 × 510
Maximum Inspection Speed				
10 Megapixel Camera	Type 1 [13.4 μ m] Type 2 [9.8 μ m]		5,293mm 2 /Sec 3,007mm 2 /Sec	
5 Megapixel Camera	Type 1 [13.4 μ m] Type 2 [9.8 μ m]		2,918mm 2 /Sec 1,669mm 2 /Sec	
Inspection Item				
Minimum Component Inspection	Type 1 [13.4 μ m] Type 2 [9.8 μ m]		0603 Chip (mm) / 0201 Chip (Inch) / 0.4 Pitch (mm) 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 (4 set)		
Laser Inspection System (Option)	Intelli-Beam [®]	Laser Resolution Measurement Accuracy	8 μ m / Point ±20 μ m	
PCB Top Side Clearance	8 Phase Coaxial Color Light 3 Phase White Light	Standard Standard Option	45mm 25mm 45mm 45mm	
PCB Bottom Side Clearance			45mm	
PCB Thickness			0.5mm ~ 3mm	
Maximum PCB Weight			3kg	
Software	Standard Option	Built-In SPC, Built-In Repair, ePM-AOI RRS, IRS, OLTT, Smart Debugger, SPC Server System		
Robot Positioning System	X/Y Axis	Closed Loop Stepping Motor System		
Power Requirement		Single Phase(s) 100~240v 50~60Hz, 1.1KW Intel i7 / 32GB RAM / Windows 7 Professional 64 Bit		
PC		7A		
Breaker Capacity		N/A		
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)	
	Weight (kg)	Approx. 160	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)	
	Weight (kg)	Approx. 350	Approx. 500	

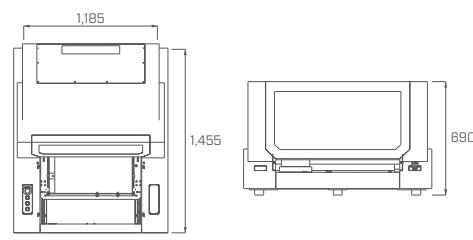
• We will not be responsible for any problems caused by using unverified BARCODE READER. Contact our HQ for the list of allowed BARCODE READER models to use.

Dimension

unit : mm



MV-3L



MV-3U



MIRTEC CO., LTD (Headquarter)

SK Ventium 103-803, 166, Gosan-ro, Gunpo-si, Gyeonggi-do, 15850, Rep. of Korea

- TEL : +82-31-202-5999
- FAX : +82-31-202-5990
- www.mirtec.com

• Sales / CS : **+82-1544-1062**

• Data subject to change without notice.