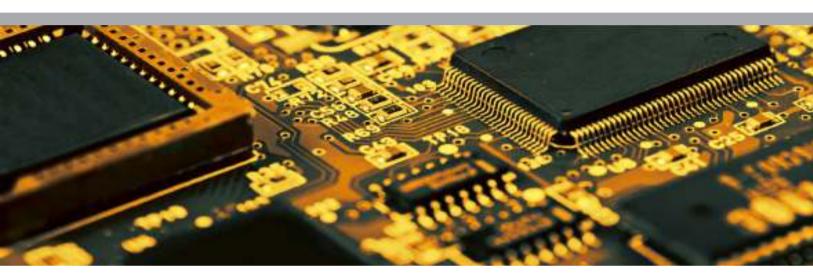


3D AOI Series

MV-3 omni





- 15 Megapixel Top Camera
- 12 Projection Moiré Technology
- 8 Phase Coaxial Color Light
- 18 Megapixel Angled Camera

3D AOI Series

MV-3 omni

MV-3 OMNI is a Full-3D benchtop vision insepctor with 15 Megapixel high resolution camera, Digital Moiré 12 Projection, 18 Megapixel angled camera and 8 phase coaxial color lighting system to allow inspection upto 03015(mm) chip.



Design for Space Utilization

MV-3 OMNI is an benchtop machine that is free from line configuration, making it is easy to arrange the machine and handle material easily. It is a universal system that demonstrates excellent ability even in small quantity production of various kinds without being influenced by the narrowness of manufacturing facilities and frequent inspection material alteration.



Digital 12 Projection Moiré Technology

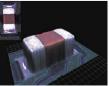
Moiré Projection Unit measures a component in EWSN 4 directions to obtain 3D image for failsafe and highspeed defect detection.



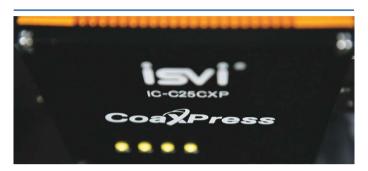
- Obtain 3D image without blind spots using 4(four) 3D projections
- Various component height inspection with the combination of high, medium and low frequency moiré pattern
- Linkage with the main camera to apply Full 3D inspection to detect various defects flawlessly

Frequency	1. Projector	2. Projector	3. Projector	4. Projector
High				
Medium				
Low				









High Resolution 15 Megapixel Camera

We are proud to have applied the next generation vision system with the 15 Megapixel high resolution camera for more precise and stable inspection and high speed CoaXPress transmission method to allow 4 times more data transmission and 40% increased process speed.

- 15 Megapixel Camera Loaded
- CoaXPress high performance vision system applied
- Large FOV to increase inspection speed
- Processing speed increased by 40% compared to Camera Link

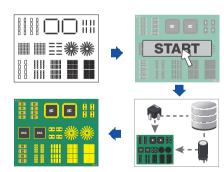




Deep Learning applied Auto Teaching Tool

Inspection software which is applied Deep Learning solution search the most suitable component information and teach the component automatically. User would have the best inspection quality always regardless of user's skill as all of process will be done by a few clicks.

- Reduce teaching time more over 90% than manual teaching
- Secure the best inspection quality always by inspection quality and working process standardization
- Accurate component searching and matching by applying Deep Learning solution



18 Megapixel Angled Camera

- · 4 cameras in EWSN applied
- The only solution for J-lead, QFN and Coil Solder inspection
- · Full-PCB inspection with side cameras



8 Phase Coaxial Color Light

- \cdot Color change extraction following angle of reflection
- · Ideal for Chip / IC lift, micro crack and solder inspection
- · Precise solder joint inspection

Lighting	PCB Noise	Color Light Noise and Uniformity	Fiducial Mark Reading Precision
6 Phase Color Light		Designment and	
8 Phase Coaxial Color Light		Improved image	

Intellisys[®] System

Possible to recognize in advance when a defect occurs in the line and support to reduce cost due to defects by remote controlling.

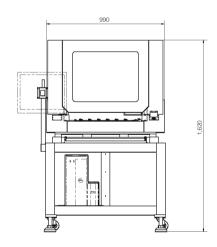


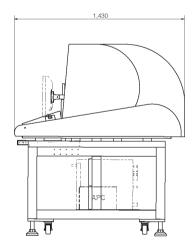
Specifications

Model			MV-3 OMNI		
PCB Size Range					
Benchtop AOI			50 x 50 ~ 450 x 400 mm	50 x 50 ~ 660 x 510 mm	
OMNI-VISION® 3D / 2	D Inspection Techno	logy			
3D Inspection Technology			Digital 12 Projection Moiré Technology		
Height Accuracy			±3 µm		
3D / 2D Maximum Ins	pection Speed				
15 Megapixel Camera	CoaXPress	10 μm	1,890 mm² / Sec		
		15 µm	4,260 mm² / Sec		
2D Maximum Inspecti	ion Speed				
15 Megapixel Camera	CoaXPress	10 µm	5,080 mm²/ Sec		
тэ медаріхет саттега	LOAXPress	15 µm	10,716 mm² / Sec		
System Specification					
Lighting System			8 Phase Coaxial Color Lighting System		
Side Camera System Option		Option	18/10 Megapixel Digital Color Side Camera (4ea)		
Software		Standard	Built-in SPC, Built-in Repair		
		Option	RMS, RRS, IRS, OLTT, ROS, Remote SPC, ePM-AOI		
PCB Top Side Clearance	9		45 mm		
PCB Bottom Side Clear	ance		50 mm		
PCB Thickness			0.5 mm ~ 3 mm		
Maximum PCB Weight			3 kg		
Minimum Measurement	· Cizo	10 μm	03015 Chip (mm) / 0.3 Pitch (mm)		
Millimum Measurement Size		15 μm	0603 Chip (mm) / 0201 Cl	hip (Zoll) / 0.4 Pitch (mm)	
Robot Positioning System X/Y Axis		X/Y Axis	Servo Motor System		
Power Requirements			Single Phase(s) 200-240V 50-60Hz, 1.1 kW		
Dimension and Weigh	t				
Dimension			990(W) x 1,430(D) x 1,620(H) mm	1,200(W) x 1,650(D) x 1,620(H) mm	
Weight			Approx. 550 kg	Approx. 750 kg	

^{**} 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)









MIRTEC CO., LTD. [Headquarter]

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

Sales / CS: +82-1544-1062