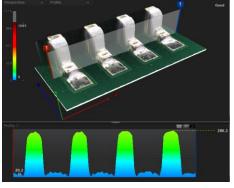
## TECHNOLOGICALLY ADVANCED

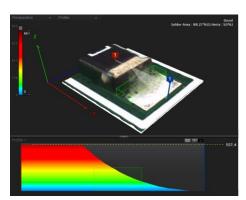
## MV-6 OMNI 3D AOI Series

## MIRTEC Coal Press

- **High-Speed / High-Performance 3D AOI MACHINE**
- **FIFTEEN MEGA PIXEL** CoaXPress Camera Technology
- Advanced Eight Phase Color Lighting System
- Ten Micron / Pixel Precision Telecentric Compound Lens Design
- Integrated Ten Mega Pixel SIDE-VIEWER® Camera System
- Precision Closed Loop AC Servo Drive Motor System
- Extremely Simple Programming and Operation



3D Co-Planarity Inspection - Gull Wing Device



3D Solder Fillet Inspection Capability



- **Exclusive OMNI-VISION®** 3D Inspection Technology
- Superior Lifted Lead Detection for Gull Wing Devices
- FULL 3D Co-Planarity and Solder Fillet Inspection Capability
- Superior Defect Detection, Absolute Lowest False Call Rate



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## **MV-6 OMNI Series Features and Specifications**

Max PCB Size Range				
MV-6 OMNI (10um Resolution)	50 mm x 50 mm to 480 mm x	x 460 mm (2.0" x 2.0" to 18.9" x 18.1")		
MV-6 OMNI (15um Resolution) 50 mm x 50 mm to 460 mm x 460 mm (2.0" x 2.0" to 18.1" x 18.1")				
Image Transfer Technology				
15 Mega Pixel 3,904 x 3,904 Pixel	CoaXpress	120 fps		

OMNI-VISION® Inspection System				
3D Inspection Technology	Digital Multi-Frequency Quad Moiré Technology			
2D Inspection Technology	15 Mega Pixel CoaXPress Camera System			
Height Accuracy	±3 um			
Inspection Item	2D Inspection  Missing Component, Wrong Component, Mis-Alignment, Skewed Polarity, Tombstone, Bridge, Flipped, Solder Ball, Etc			
	3D Inspection	Height, Position, Lifted Package, Lifted Lead, Solder Fillet, Excessive Solder, Insufficient Solder, Open Solder, Etc		

Vision System ( FOV Size )				
15 Mega Pixel Camera	3,904 x 3,904 Pixels	Option 1	Pixel Resolution :15 um	58.56 mm x 58.56 mm (2.31" x 2.31")
		Option 2	Pixel Resolution :10 um	39.04 mm x 39.04 mm (1.54" x 1.54")

2D Maximum Inspection Speed					
15 Mega Pixel Camera	CoaXpress @ 120 fps	Option 1	Pixel Resolution :15 um	0.32 sec / FOV	10,716 mm2/sec (16.6 in2/sec)
		Option 2	Pixel Resolution :10 um	0.30 sec / FOV	5,080 mm2/sec (7.87 in2/sec)

3D Maximum Inspection Speed					
15 Mega Pixel Camera	CoaXpress @ 120 fps	Option 1	Pixel Resolution :15 um	0.77 sec / FOV	4,454 mm2/sec (6.9 in2/sec)
		Option 2	Pixel Resolution :10 um	0.75 sec / FOV	2,032 mm2/sec (3.15 in2/sec)

	System S	Specifications	
Lens Configuration	Precision Telecentric Compound Lens Design		
Lighting System	Eight Phase Color Lighting		
SIDE-VIEWER® Camera System	Quantity Four - 10 Mega Pixel (3,664 x 2,736) Color Side Angle Cameras		
PCB Top Side Clearance		45 mm	
PCB Bottom Side Clearance		50.8mm (2.0") from bottom of PCB surface	
Maximum PCB Warpage	±3 mm		
Barcode System (Option)	1D or 2D Barcode Reader		
Built-in SPC	Statistical Process Control Software (Local)		
Built-in Repair	Repair Plus Software (Local)		
OLTT (Option)	Off-Line Teach Tool Software		
Minimum Component Inspection	0402 Chip (mm) / 01005 Chip (in) / 0.3 Pitch (mm)		
	X/Y Axis	Precision Closed Loop AC Servo Drive Motor System	
Robot Positioning System	Resolution	1 um	
	Repeatability	±10 um	
Power Requirements	Single Phase 200~240V 50~60Hz; 1.1 KW		
Air Requirements	5 Kgf/cm2 (0.5 Mpa); (71 PSI)		

Machine Dimensions and Weight				
MV-6 OMNI	1,080 mm W x 1,470 mm D x 1,500 mm H (42.5" x 57.87" x 59.1")	950 kg (2,094 lbs.)		

