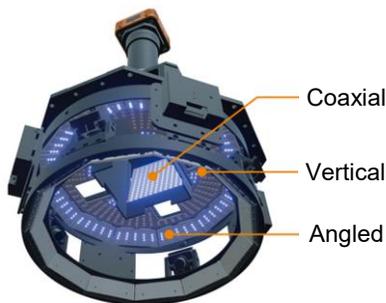


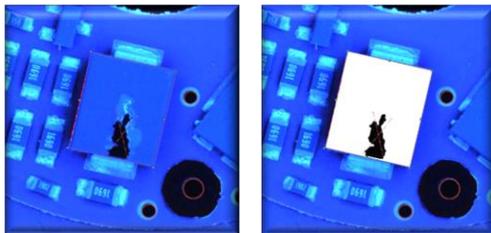
## MV-3CC

### Desktop Conformal Coating AOI Series

- ▶ Exclusive 15MP CoaXPress Camera System
- ▶ 10um / 15um Precision Compound Telecentric Camera Lens
- ▶ Advanced Multi-Phase Color LED / Three (3) Stage UV Lighting System
- ▶ Industry Leading AI Based Bubble Inspection Technology
- ▶ 18MP CoaXPress SIDE-VIEWER® System for Lateral Coating Inspection
- ▶ Standard 2D PCB Inspection Capability
- ▶ Programmable Z-Axis Multi-Focus System
- ▶ Precision Interferometric 3D Thickness Measurement System Option
- ▶ INTELLISYS® Industry 4.0 Factory Automation System



Three (3) Stage UV Lighting System



# MV-3CC Series Specifications

## Standard Features:

- ▶ 15MP CoaXPress Top-Down Color Camera System (See Specifications).
- ▶ Intel® Multi-Core PC, 32" Flat Screen LCD Monitor, Windows 11™ OS, HDD, Mouse & Keyboard, Network LAN Card.
- ▶ Semi-Automatic PCB Support System.
- ▶ Advanced Multi-Phase Color / Three (3) Stage UV Lighting System.
- ▶ Standard 2D Inspection Capability.
- ▶ Automatic Teach Tool (ATT) Software - Automatic Programming Using Centroid Data.
- ▶ Local System Software: Repair Plus Software, Statistical Process Control (SPC) Software.
- ▶ Network Card for LAN Connection.

## Options:

- ▶ 18MP CoaXPress SIDE-VIEWER® Camera System - Quantity (4) 18MP Side Cameras for Lateral Coating Inspection.
- ▶ Programmable Z-Axis Multi-Focus System - Provides Optimal Focus Level for Taller Devices.
- ▶ Top-Side PCB Clearance: Standard - 45mm (1.77 in.) / Option - 70mm (2.76 in.).
- ▶ 2D Bar Code Reader Options: Gun Type, Camera Type and External Mount.
- ▶ Precision Interferometric 3D Conformal Coating Thickness Measurement System
- ▶ Remote PC - Software Purchased Separately.
- ▶ CAD Import Software: Option 1 - ePM-AOI Gerber Import Software / Option 2 - Valor Gerber Import Software w/ ODB++
- ▶ Remote Software: Repair System Software, Statistical Process Control (SPC) Software, Off-Line Teaching Software (OLTT).
- ▶ Total Remote Management Software (TRMS) - Requires Server Software for Remote PC and Client Software on All Machines.
- ▶ SVN Multi-System Version Control Software - Requires Separate PC Server.

## System Specifications:

*(Subject to change without prior notice)*

PCB Inspection Area	
MV-3CC	50 mm x 50 mm to 480 mm x 400 mm (2.0" x 2.0" to 18.9" x 15.75")

Vision System (FOV Size)			
15MP CoaXPress: (3,904 x 3,904 @ 120 fps)	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")

OMNI-VISION® Inspection Technology	
3D Inspection Technology	Precision Interferometric 3D Conformal Coating Thickness Measurement System
2D Inspection Technology	15MP CoaXPress Camera System
3D Height Range / Working Distance	Standard: (20 um ~ 2,500 um), 97 ±0.5 mm / Advanced: (16 um~ 8,000 um), 42 ±4 mm
2D Inspection Item	Missing Component, Wrong Component, Mis-Alignment, Skewed Component, Polarity, Tombstone, Solder Bridge, Flipped Device, Solder Ball, Etc.
3D Inspection Item	Conformal Coating Thickness

Additional Specifications	
Lens Configuration	Precision Telecentric Compound Lens Design
Lighting System	9CH RGBW+UV Light (R, G, B / Horizontal W, Vertical W, Coaxial W / Angled UV, Coaxial UV, Vertical UV)
SIDE-VIEWER® Camera System	Quantity Four (4) - 18MP CoaXPress Side-Angle Color Cameras for Lateral Coating Inspection.
PCB Surface Clearance	Top-Side Clearance: 45 mm (1.77") ; Bottom-Side Clearance: 100 mm (3.94")
PCB Edge Clearance	Top-Edge Clearance: 3 mm / Bottom-Edge Clearance: 3 mm
Maximum PCB Warpage	±5 mm
Maximum PCB Weight	Standard: 3 Kg (6.61 Lbs.)
PCB Thickness Range	Standard: 0.5 mm - 3 mm
Minimum Component Inspection	0402 Chip (mm) / 01005 Chip (in) / 0.3 Pitch (mm)
Robot Positioning System	Precision Closed Loop AC Servo Drive, Resolution: 1 um / Repeatability: ±10 um
Power Requirements	Single Phase 200~240V 50~60Hz; 1.1 KW, Breaker Capacity: 25 Amp

Machine Dimensions and Weight		
MV-3CC	990 mm L x 1,425 mm W x 1,675 mm H (38.98" x 56.1" x 65.94")	550 kg (1,212.54 lbs.)