MVP Aura

Automated In-Line Inspection And Metrology For Packaged ICs, BGAs, Leaded And Hybrid SMT Devices



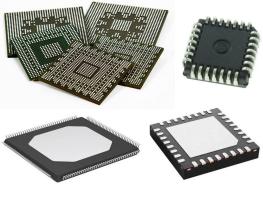
Key Features

- Full Inspection: Height,
 Position, Metrology and
 Coplanarity Measurements
- In-Line JEDEC Tray Handling
 - Sorting to Defect Tray.
 - Interchangeable Vacuum
 Nozzles for Large and Small
 Packages
- Inspect Parts Independent of Camera FOV
- Single Sided Inspection
- Small Footprint

Inspect Ball Grid Array (BGA), Quad Flatpacks (QFP), Quad Flatpacks No-Leads (QFN),
Plastic Leaded Chip Carriers (PLCC), and More

MVP Aura

MVP's Aura platform takes in-line package inspection to the next level. Key features include; top side inspection, Automated in-line tray loading, Automated part sorting, Pin/ball Position, Height, and Coplanarity measurements. Additionally, MVP's Aura uses the latest advanced 3D high-resolution imaging to provide inspection and measurement capabilities for todays most demanding devices and packages.





MVP Aura

MVP "AOI Elevated"

Model	MVP Aura		
Performance			
In-Line Handling From	Leaded, no-lead and array packages including:		
JEDEC Tray	BGA, CGA, CSP, MCM, SiP, SGA,		
	SOP, QFP, TSOP, LGA, QFN, MLF, LCC		
Inspection Capability	Coplanarity, ball/Pin presence, position, offset, pitch, extra ball,		
	discolored balls, body width, tip-to-tip, lead width, ball damage,		
	surface inspecti	surface inspection and SMT.	
Sorting	Tray to Tray		
Loading	In-Line		
3D Optics Options			
3D FOV	24.1mm	60mm	
3D Accuracy	+- 10um	+- 20um	
Software			
Offline Program Generation	ePro		
Program Debug Environment	iPro and Validate		
SPC and Reporting	AutoData DPC - Sql based data reporting ELSR - End Lot Summary Reporting		
	Optional: AutoData, line integration to paste systems		
CAD and Gerber Inputs	Standard, Placement, Gerber and ODB++ data import		
Defect Review	In-Line or Off-Line defect review using iRepair		
Multi-Pass	Programmable heights and lighting per pass		
System			
Computer	Xeon Processor Based Fast 1TB SSD Hard Drive - 64GB Memory		
Operating System	Linux based Multi-Threading Ubuntu Operating System		
Data Integration Options	SECS/GEM, AutoData, DPC		
Networking	Full network integration (TCP/IP, NFS Protocol)		
Physical			
Tray Handling	JEDEC Standards 95-1 & IEC 60286-5		
Footprint	990mm (39") W x 1100mm (43") D x 1580mm (62") H		
Power	208-240VAC 50/60Hz, 10A (Optional 110V)		
Air	60 PSI, 1CFM		
Vacuum	20kPa or Optional Vacuum Ejector		
Weight	Approximately 500 kgs (1100 lbs.)		
Compliance	CE - (UL Optional)		

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MVP Aura – Full Automated In-Line Inspection For BGA, Bumped, LGA, QFP, J-Lead And Custom Array Or Leaded Devices

The Aura system automates the in-line packaging inspection process while retaining the highest level of inspection quality. Packages in JEDEC Trays are loaded as an in-line process and Parts inspected in a Dead Bug* orientation. For defect sorting empty trays loaded for defect parts and our pick and place capability sorts defective parts to the empty tray.

High resolution 3D optics are used ball/Pin, coplanarity, metrology and inspection.

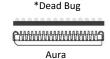


Nozzles are interchangeable dependant on product sizes. Options go from below 1mm to 9.5mm allowing support of multiple device sizes.



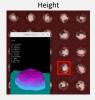
For defect sorting, multiple nozzles and grippers can be used for part sorting. For data integration the MVP Aurora system uses the optional SECS/GEM, E142 e-Maps and ELSRs to provide accurate manufacturing data.

MVPs optional AutoData system provides SQL database integration for full traceability and image archiving for all devices.

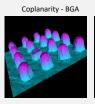




Defect Examples















Provides Packaged IC and Component Inspection.

Use for Your Outgoing Quality Control (OQC) for all package types; Ball Grid Arrays (BGA), Quad Flat Packs (QFP), Thin Quad Flat Package (TQFP), Chip Scale Package (CSP), Wafer-Level Package (WLP), Quad Flatpack No-Leads (QFN), Bump Chip Carrier (BCC), Land Grid Array (LGA), Micro-Coil Spring Arrays and more...



Worldwide Headquarters Vista, California, USA. +1 (760) 438-1138 sales@visionpro.com

European Headquarters Fife, Scotland, UK. +44 (0) 1383 842861 saleseurope@visionpro.com Asia-Pacific Headquarters, Xuhui, Shanghai, PR China. +86 172 059 60328 salesasia@visionpro.com