

# MVP Aurora

## Automated Inspection And Metrology For Packaged ICs, BGAs, And Leaded Devices

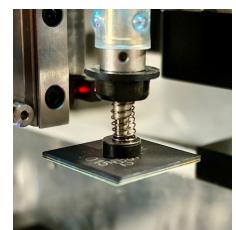
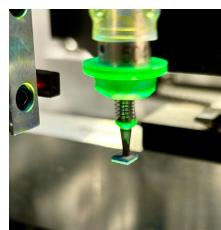


### MVP Aurora

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

### Key Features

- Top-Side Package and Marking Inspection
- Bottom-Side Height, Position and Coplanarity Measurements
- Fully Automated JEDEC Tray Handling
  - Sorting to Defect Tray, Stack Only has Good Parts
  - Load Stacks of 30 Thin or 20 Thick Trays
  - Automated Pick for Inspection
  - Interchangeable Vacuum Nozzles for Large and Small Packages
- Small Footprint



MACHINE VISION PRODUCTS

# MVP Aurora

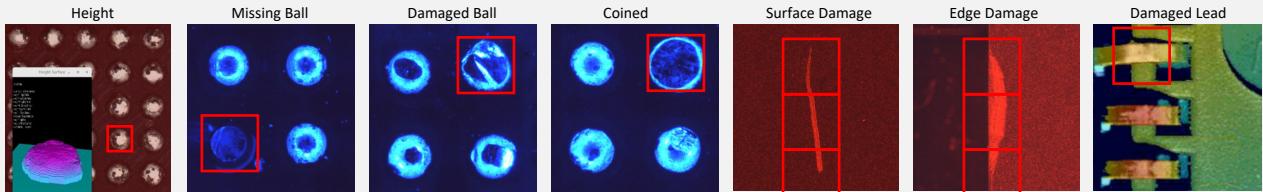
# MVP “AOI Elevated”

Model	MVP Aurora		
<b>Performance</b>			
Package Handling From JEDEC Tray	Leaded, no-lead and array packages including: BGA, CGA, CSP, MCM, SIP, SGA, SOP, QFP, TSOP, LGA, QFN, MLF, LCC		
Inspection Capability	Side 1: Surface and part marking inspection other components including SMT, die surface, bumps, lands and leads.  Side 2: Coplanarity, ball/Pin presence, position, offset, pitch, extra ball, discolored balls, body width, tip-to-tip, lead width, ball damage, surface dents and SMT.		
Sorting	Tray to Tray		
Loading	20 thick or 30 thin JEDEC trays (standards 95-1 & IEC 60286-5) max. stack weight 9 kg, optional 18 kg max. tray weight 1000 g		
<b>Top Side Optics</b>			
Optics Camera	Options between 2.5um to 20um		
<b>3D Optics Options</b>			
3D FOV	24.1mm	60mm	Standard Optics
3D Accuracy	+- 10um	+- 20um	
<b>Software</b>	ePro		
Offline Program Generation	iPro and Validate		
Program Debug Environment			
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		
<b>System</b>			
Computer	Intel Based - Multi Processor Architecture 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)		
<b>Physical</b>			
Tray Handling	JEDEC Standards 95-1 & IEC 60286-5		
Footprint	1433mm (56.42") W x 1193mm (46.97") D x 1684mm (66.3") H		
Power	208-240VAC 50/60Hz, 10A (Optional 110V)		
Air	60 PSI, 1CFM		
Vacuum	20kPa or Optional Vacuum Ejector		
Weight	Approximately 726 kgs (1600 lbs.)		
Compliance	CE - (UL Optional)		

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## Defect Examples



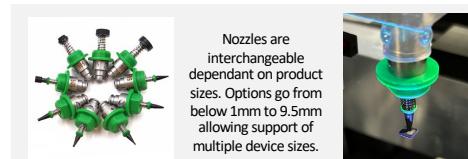
Note: Defects examples shown use the range of optics packages available on the Aurora

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

The Aurora system automates the packaging inspection process while retaining the highest level of inspection quality. Packages in JEDEC Trays are loaded as a stack in the inspection area and empty trays loaded for defect parts.



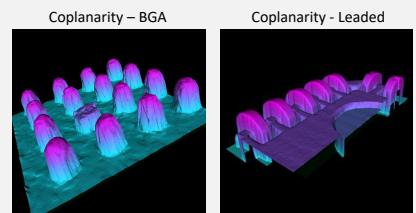
High resolution optics are used for topside inspection and 3D optics used for ball/Pin inspection.



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



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