MVP Aurora

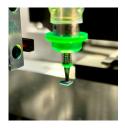
Automated Inspection And Metrology For Packaged ICs, BGAs, And Leaded Devices

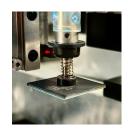


MVP's Aurora platform takes package inspection to the next level. Key features include; Top and bottom side inspection, Automated tray loading, Automated part sorting. Part marking and surface inspection, Pin/ball Position, Height, and Coplanarity measurements. Additionally, MVP's Aurora uses the latest 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







MVP Aurora

MVP "AOI Elevated"

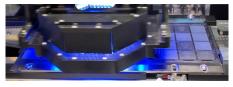
| Model | MVP Aurora | | |
|----------------------------|--|---------|-----------------|
| Performance | | | |
| Package Handling From | Leaded, no-lead and array packages including: | | |
| JEDEC Tray | BGA, CGA, CSP, MCM, SiP, SGA, | | |
| | SOP, QFP, TSOP, LGA, QFN, MLF, LCC | | |
| Inspection Capability | 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) | | |
| Top Side Optics | | | |
| Optics Camera | Options between 2.5um to 20um | | |
| 3D Optics Options | | | |
| 3D FOV | 24.1mm | 60mm | Standard Optics |
| 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 | Dual Xeon Processor - Multi-Threading | | |
| | Fast SSD Hard Drive - 64GB Memory | | |
| Operating System | Linux based Multi-Threading CentOS 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 | 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 | | |
| Weight | Approximatly 726 kgs (1600 lbs.) | | |
| Compliance | CE - (UL Optional) | | |

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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.



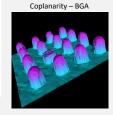
Nozzles are interchangeable dependant on product sizes. Options go from below 1mm to 9.5mm allowing support of multiple device sizes.

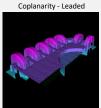


For data integration the MVP Aurora system uses the optional SECS/GEM, E142 e-Maps and ELSRs to provide accurate manufacturing data.

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

Defect Examples

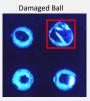




Defect Examples



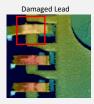














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