

3D VISION INSPECTION

Since 1980



3D VISION INSPECTION - 3000



3D VISION INSPECTION - 3000R

※ Tape & Reel off-loader Equipped



High Productivity

- 100,000 UPH (Based on Dry Run)



Most Advanced Vision Inspection

- Capable to Handle for BGA, QFN, LEADED Camera Module, TMV & WLP Packages



Excellent 3D Vision Inspection Technology

- PMP (Phase Measurement Profilometry Technology)



Package Side Inspection (Optional)

- Enable to Inspect Package Cutting Surface (QFN, QLP, MLP, MLF, LFCSP, Camera Module)



Semiconductor

3D VISION INSPECTION

Enhanced Machine Features

■ Latest Innovation in Vision Inspection Technology

- True 3D Inspection in PMP Technology
- 3-Dimensional Mapping Function
- Best Inspection Accuracy by Actual Volume Scanning on Objects (Not by Brightness Control)
- Solution for Warpage & Coplanarity Inspection
- Applicable for Both Top / Bottom Side for 3D Inspection
- Package Side Module (Optional)

■ High Accuracy & Precise Handling

- Package Handling Accuracy : $\pm 20\mu\text{m}$
- Minimum Package Size : 3x3 or less (Both QFN & BGA in Tray)
- Minimization for Machine Vibration

■ Machine Flexibility & Quick Change-Over

- Various Off-loading Options (Tray, Tube or Tape & Reel)
- Multi-reject Sorting Function
- Capability to Handle All Types of Semiconductor Packages
- Extremely Easy & Quick Change-over : Max. 10 minutes
- Universal Picker Applied

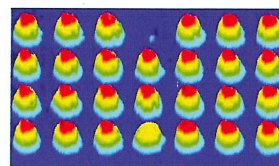
■ Advanced Operation System (HMI)

- Automatic Image Save & Statistic Process Control (SPC)
- PC Based Easy-to-use & Real-time Graphical User Interface
- Detail Maintenance Guide on LCD Touch Screen Monitor

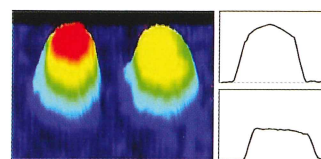
■ Productivity and Capability

Productivity	UPH	100,000 (Based on QFN 3x3, 18x30 Tray, 540 Units)		MTBA	2 hours
Capability	PKG Handling Acc.	$\pm 20\mu\text{m}$	Performance	MTBF	168 hours
	Min. PKG size	3mm x 3mm		MTTA	3 minutes
	Max. PKG size	50mm x 50mm		MTTR	30 minutes
	Types of Package	Leaded, Leadless, Camera Module, CSP, TMV, WLP			
	Vision FOV	70mm x 52mm			

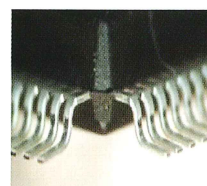
BGA 9mm x 9mm 3D Image
Ball Height : 0.5mm



Good Ball / Dent Ball



Leaded Package



QFN Side Inspection

