

Xceed

New Generation 3D AOI



3D Automatic Optical Inspection

PARMI
Pattern Recognition &
Machine Intelligence

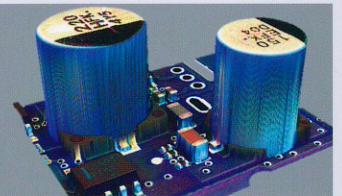
Xceed

New Generation **3D AOI**

High Accuracy & High Speed

3D AOI Sensor Head

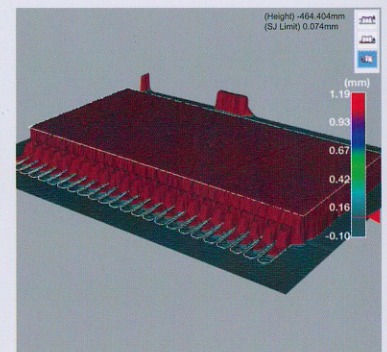
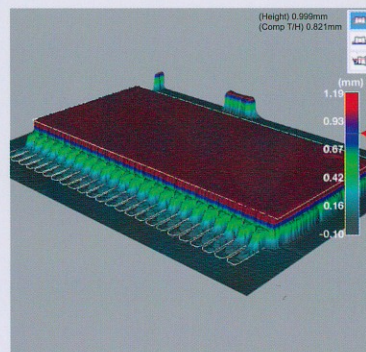
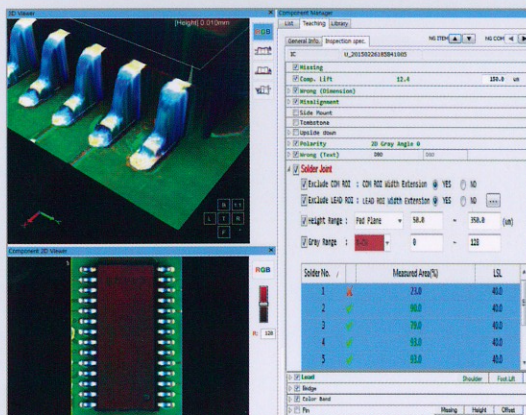
- Fast Speed CMOS camera(4 mega pixe) with Dual laser technology
- RGB LED Lightings
- Telecentric Lens
- Light-weight sensor, Compact design
- The Fastest Inspection speed:65cm²/sec@14x14μm
- Cycle time: For PCB 260mm(L) x 200mm(W)
@ 10 SEC (Including Loading & Unloading time)



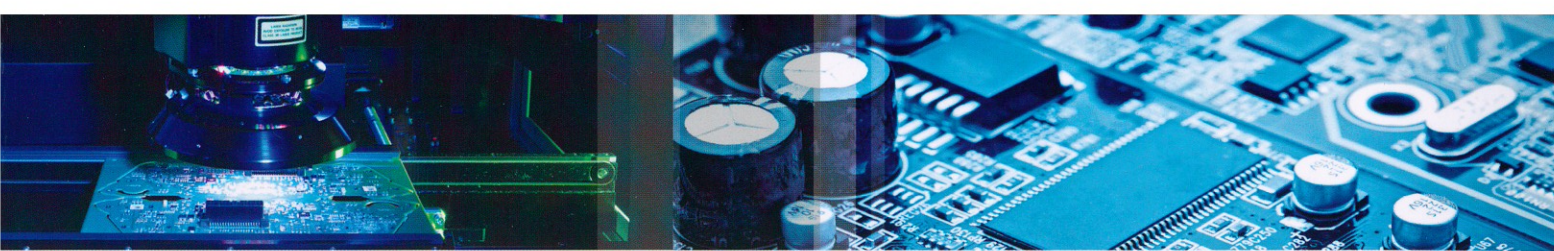
Minimized shadow effects for small components between high components

3D AOI

3-Dimensional measurement provides accurate inspection and minimum false calls.

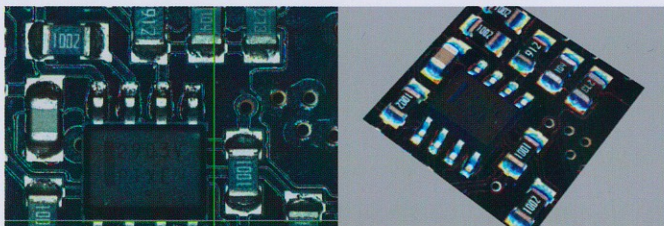


Enabled to extract component shape and Solder Joint area

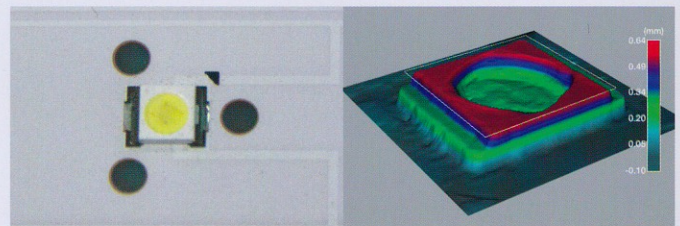


Smart Inspection

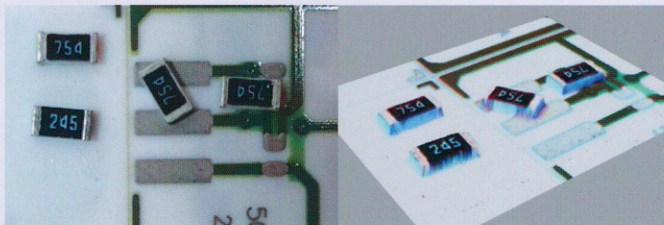
Indifferent inspection for PCB texture, surface, and color



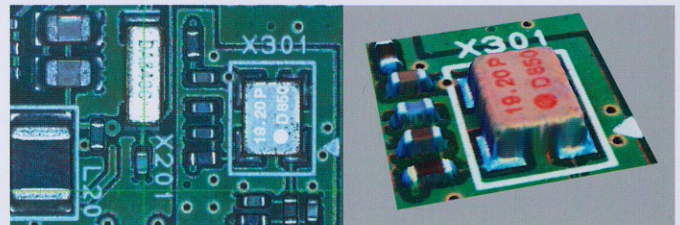
Dark PCB



White PCB



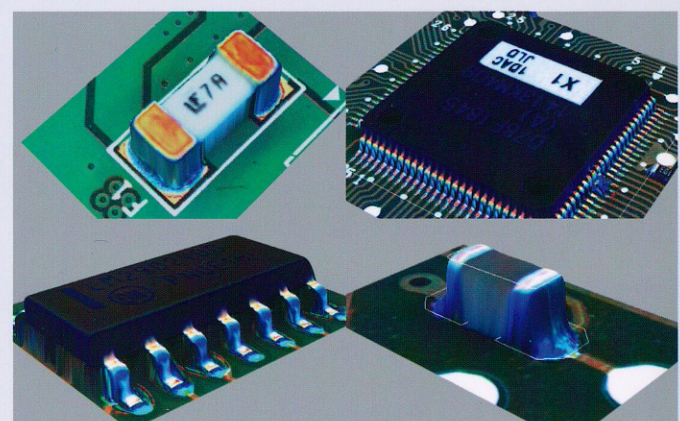
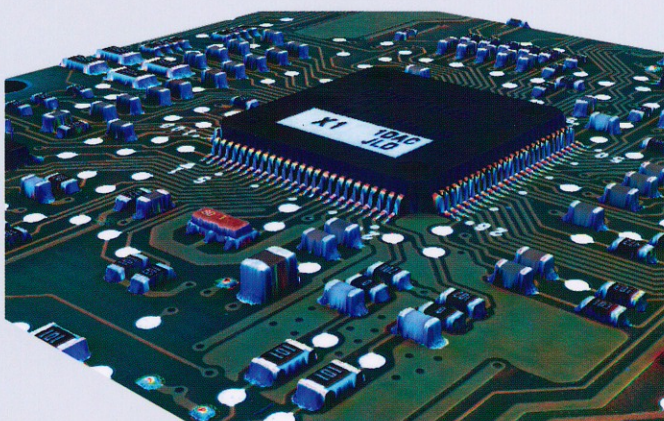
Ceramic PCB

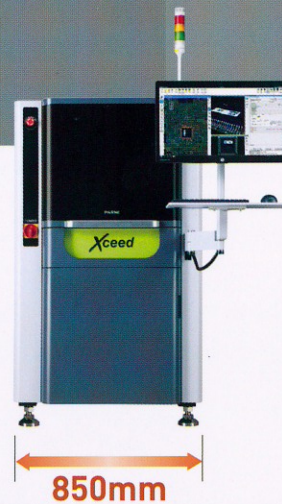
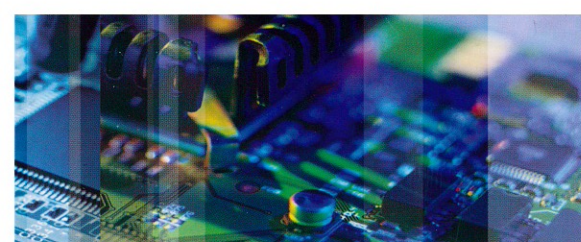


Reflective components

Real 3D image

Advanced Signal process technology realizes **Noise-less and clear 3D images.**





Compact Design

Easy Software

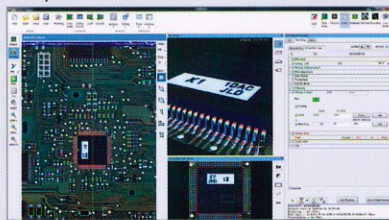
SPI Friendly UI

PARMI's exclusively uniformed UI compositions for both SPI and AOI. Easy S/W to use for a new customer and previous SPI users.

AOI UI

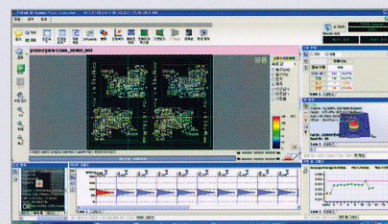


Inspection Window



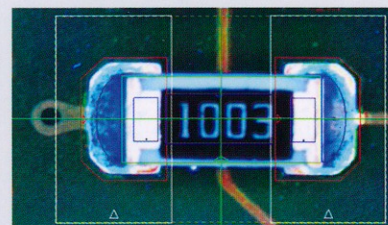
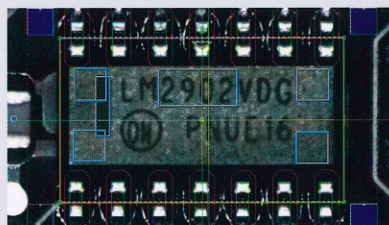
Teaching Window

SPI UI



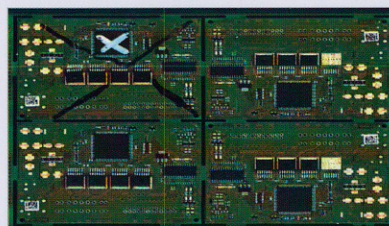
Easy Programming

One-Click teaching solution provides **automatic ROI creation** without particular debugging operations.
7 fundamental inspection: Missing, Lifts, Component size, Misalignment, Side-Mount, Tombstone, Upside-down



Barcode & Badmark recognition

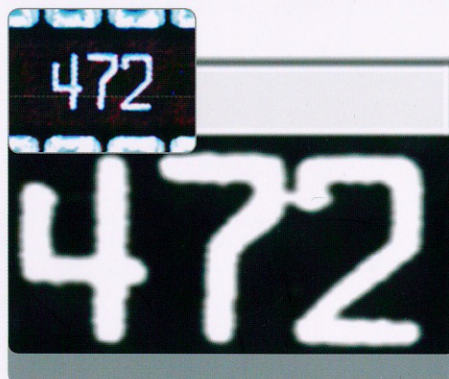
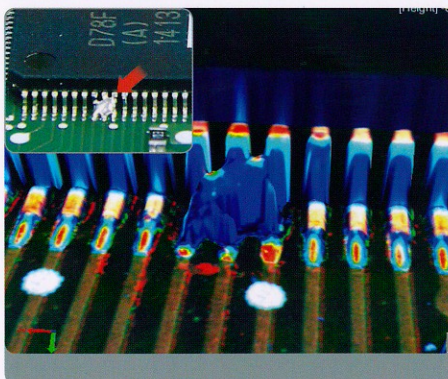
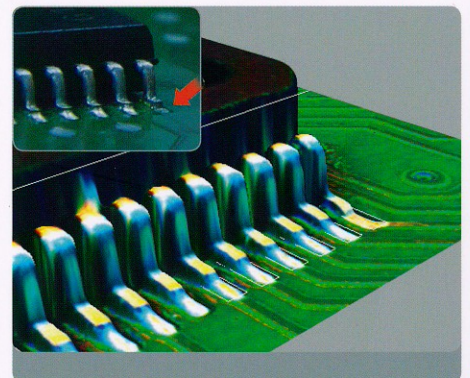
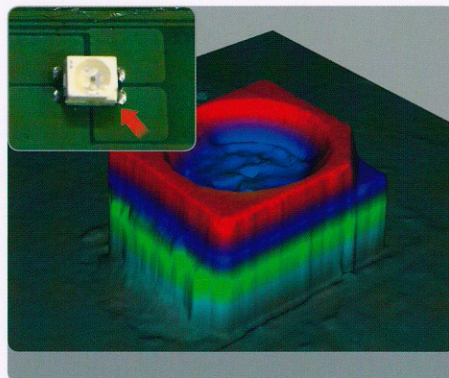
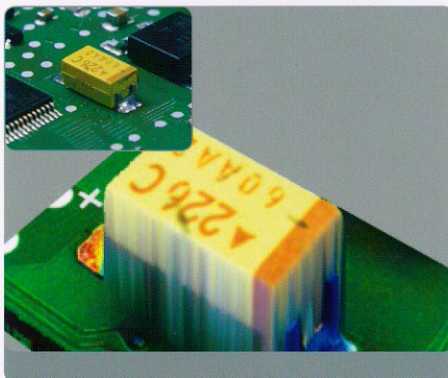
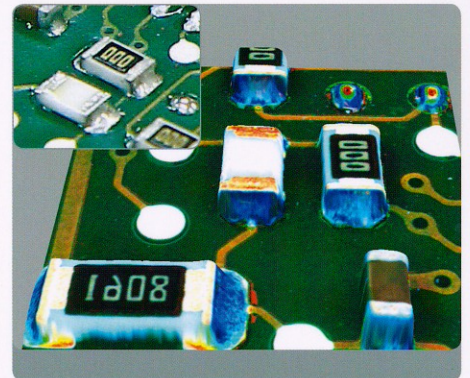
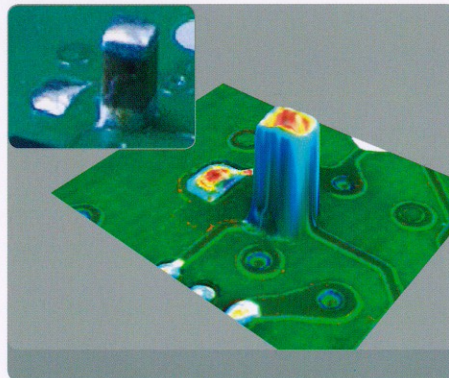
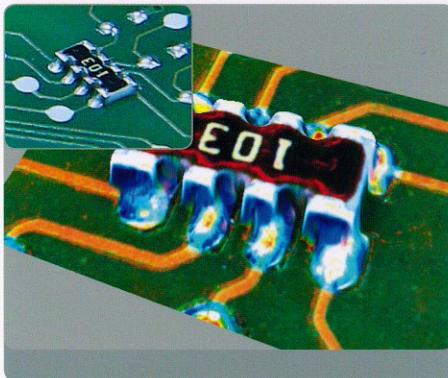
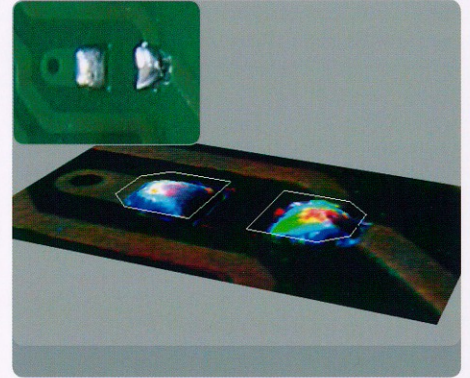
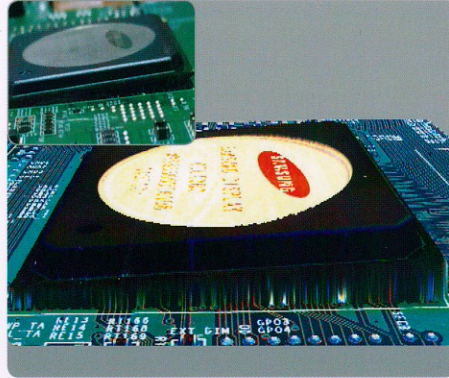
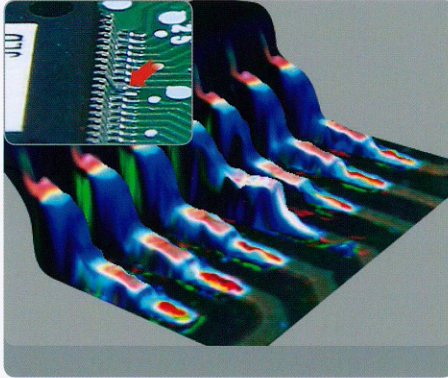
With a single inspection, Barcode & Badmark recognitions will be made simultaneously, and it contributes to production efficiencies.
 (Enabled to recognize 1D, 2D, QR Laser Marking, and printing barcode)



Perfect detection for all defects types

Real component height measurement and Real data displays; Intuitive and Optimization to overcome 2D Specifications AOIs' limitations such as lift detections(Lead, and component).

Also, all types of defect detections are possible; component size, Missing, Misalignment, Side mount, Tombstone, Upside down, Polarity(Reverse), Wrong component, Solder joint, Lead missing, Bent leads Bridge, OCR/OCV, Color band, PIN, and etc.



Specifications



Model	Xceed	Xceed L	Xceed XL	Xceed D
TRSC-I 3D Sensor Camera				
Measuring Principle	Shadow Free Dual Laser Optical Triangulation			
Camera System	4 Mega Pixel			
Illumination	RGB LED			
Scan Speed (sq.cm/sec)	65 sq.cm/sec			
* X-Y Resolution (μm)	14 x 14μm			
Lateral Length (mm)	32mm			
Height Resolution (μm)	0.4um			
Performance				
Height Repeatability	3 Sigma < 3 μm / Height			
Height Accuracy	5um			
Measurement				
Inspection Type	Dimension, Missing, Misalignment (X/Y/Rotation), Wrong (Body), Side Mount, Tombs tone, Text (OCV/OCR), Wrong (Matching), Solder Joint, Lead Lift, Lead Missing, Lead Offset, Bridge, Color band, Pin, Coplanarity			
PCB Warpage	±5mm (2%)			
Barcode	1D/2D Barcode Inspection using TRSC-I			
Max. Component Height	40mm			
Board Dimension				
Minimum Size (mm)	50 x 50			
* Maximum Size (mm)	410 x 350	510 x 510	810 x 610	410 x 320
Board Thickness	0.4 ~ 5	0.4 ~ 5	0.4 ~ 10	0.4 ~ 5
Maximum Board Weight (kg)	2 kg	4 kg	6 kg	2 kg
TOP/Bottom Edge Clearance (mm / mm)	2.5 / 4.0	2.5 / 4.0	2.5 / 4.0	2.5 / 4.0
TOP side/Under side Clearance	50 / 50	50 / 50	50 / 50	40 / 30
System Dimension				
* Dimensions (W x D x H)	850 x 1,205 x 1,525	950 x 1,365 x 1,525	1,310 x 1,540 x 1,525	850 x 1,580 x 1,510
Weight (kg)	750 kg	900 kg	1,100 kg	950 kg
Conveyor Height (mm)	860 ~ 970			
Conveyor Speed Range	300 ~ 1000 mm/sec			
Flow Direction	L to R , R to L Factory Setting			
Conveyor Width Adjusting	Auto			
Computer & Console				
CPU	i5 4570			
Operating System	MS-Windows 7 64 bit			
Display	23" LED			
Input	Mouse, Keyboard			
Enclosure	Conforms to CE regulations			
Supplies	AC 220V, 5 Kg/sq.cm			
Software System				
Inspection Program	AOIworks			
Offline Teaching	AOIworks for Offline			
SPC & Process Monitoring	SPCworks for AOI			
Verification Stage	Verifier			
System Diagnosis	AOI Manager			
Teaching	ePM-SPI			



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