

Automation for a Changing World

3D Stereo Vision for Electronics Manufacturing



Reduces manual processing errors and realizes smart manufacturing

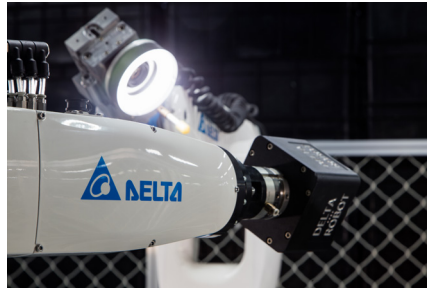
- **Accurate Positioning for 3D Coordinates**
Replaces manual soldering work for PCBs with height differences in the electronics in electronic manufacturing industries
- **Finished Product Inspection**
Spots scratches, contamination, cracks, flaws, gaps, discolorations, pits, and other defects
- **Detection of Curved Devices**
Detects curved devices accurately for further processing

Applications

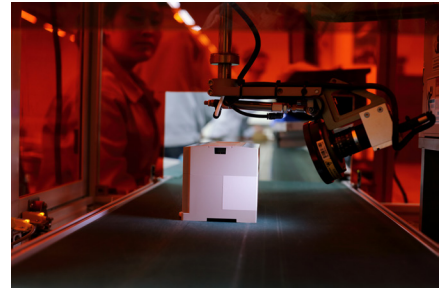
Material Inspection



Robot Guidance



Pick-and-Place Inspection



Specifications

Resolution		0.3M/2M
Lens	Type	C-Mount
	Focal Length	12mm
	Max Aperture	2.0
	Adjustment	Manual
	Vision Angle	W: 48.8° x 40.2° x 30.6°
FOV		50 x 38 mm (Working distance: 120 mm; Camera: 0.3MP)
Baseline		80 mm
Processing Time		Algorithm in camera: 15 ms Algorithm in IPC: 100 ms (Feature matching process with 0.3MP camera and i7 MH1)
Unit Pixel		(x, y, z) = (0.078, 0.079, 0.14) mm
Guide Error		(x, y, z) = (0.15, 0.15, 0.4) mm
Extra Features		GPIO Trigger
Compatible OS		Windows 7 Windows 10 Windows Embedded Windows IoT
Dimensions		150 x 110 x 650 mm
Weight		900 g
Operating Temperature		0°C ~ 45°C
Storage Temperature		-20°C ~ 65°C

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