High-Resolution 2D Sensor

High Precision Optical Sensor with Enhanced Illumination

Measure. Analyze. Improve.

CyberOptics is a leading global developer and manufacturer of high precision sensing technology solutions. CyberOptics' 2D and 3D sensors are used in SMT, semiconductor and metrology markets to significantly improve yields and productivity.
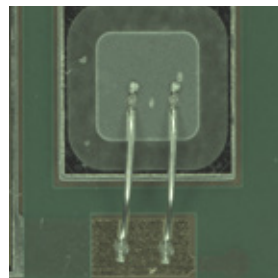
New 2D Sensor with Enhanced Illumination

CyberOptics High-Resolution 2D Sensor provides perfect, crisp quality images at a 3µm resolution. The four independent white light LED ring light channels provide a great degree of flexibility for inspection and defect review.
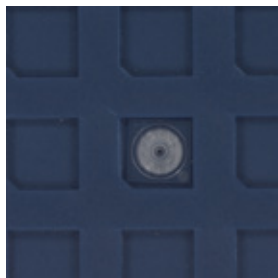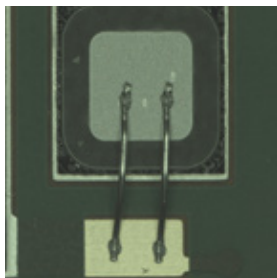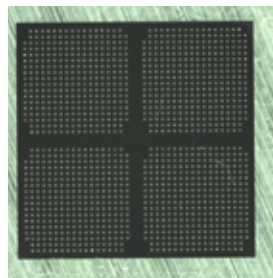

Lens Inspection - Bubble Defect

Packaging - High Angle

Wire Bond - High Angle   Wire Bond - Low Angle

Packaging - Coaxial

Metrology-Grade Accuracy at Production Speed
– See crisp, high quality images for highly accurate inspection and defect review.

Superior Inspection Performance
– Attain repeatable and reproducible measurements for a variety of applications.

Versatility for Various Challenging Applications
– Ideal for a wide range of applications including wire bond, advanced packaging, solder bump & ball, lens inspection and other applications where an even greater degree of accuracy and reliability is critical.

Nordson

TEST & INSPECTION

CYBEROPTICS

Intuitive, Easy-to-Use Software

CyberOptics AOI Software is a powerful yet extremely simple software designed with an intuitive interface that reduces training efforts and minimizes operator interaction – saving time and cost. The software includes multi-touch controls and image visualization tools, taking ease-of-use to a whole new level.

AI² - Faster, Smarter Programming

Autonomous Image Interpretation (AI²) technology is all about keeping it simple - no parameters to adjust or algorithms to tune. With AI², you have the power to inspect the most comprehensive list of features and identify the widest variety of defects. AI² offers precise discrimination with just one panel inspection making it a perfect solution for high-mix and high-volume applications.

AOISOFTWARE

Sensor Specifications	
Field of View	15 x 15mm
Resolution	3 µm
Depth of Field	±250 µm
Inspection Rate	7 cm²/sec
Imaging System	Telecentric
Illumination	Four Independent White Light LED Ring Light Channels • Coaxial (90°) • High Angle (70°) • Medium Angle (50°) • Low Angle (40°)

System Specifications	
Machine Interface	SMEMA, RS232 and Ethernet
Power Requirements	100-120 VAC or 220-240 VAC, 50/60 hz, 10-15 amps
Compressed Air Requirements	5.6 Kgf/cm² to 7.0 Kgf/cm² (80 to 100 psi @ 4 cfm)
System Dimensions	110 x 127 x 145 cm (W x D x H)
Weight	965 kg (2127 lbs.)

Options
Barcode Reader, Rework station, SPC Software, Alignment Target