



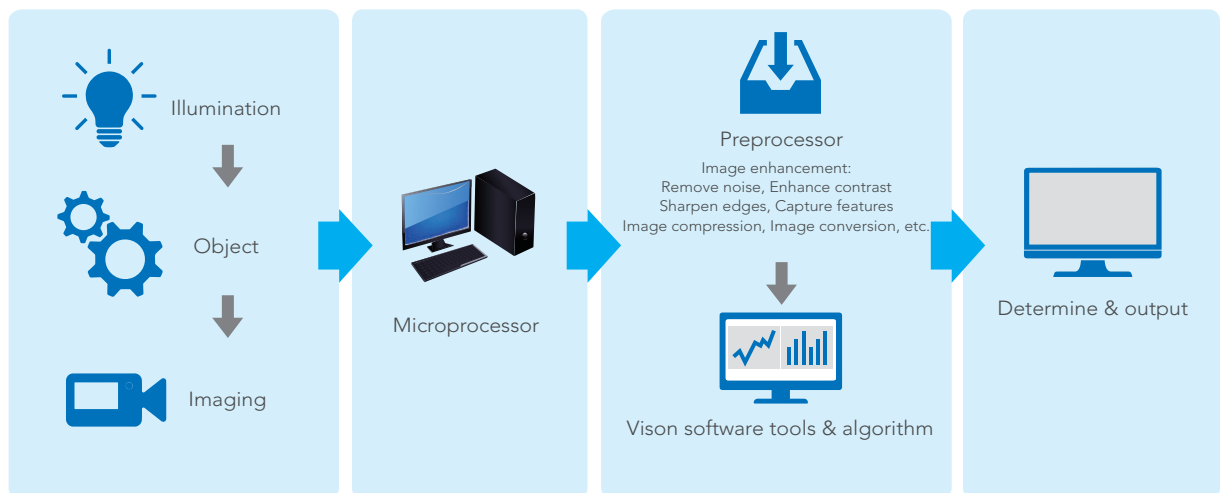
Accordance AOI Automated Optical Inspection Solutions

Automated Optical Inspection

Application: All kinds of industries, such as industrial product quality inspection, semiconductor, electronic product, machinery, mold, and passive component

Current challenges: Product inspection requires a lot human resources, visual inspection is difficult, and inspection software package cannot provide customized system integration functions

AOI Automated Optical Inspection System The framework diagram



1 Image formation 2 Image capture 3 Image processing 4 System interface

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| ▶ Existence: Check for the missing parts. | ▶ Location: Object package orientation, automatic package. |
| ▶ Comparison: Check for the defective parts (image matching). | ▶ Difference: Part position, offset error and adjustment, and wear status. |
| ▶ Classification: Sorted by the size, shape, color and quality of parts. | ▶ Character recognition (OCR): After image preprocessing, recognize the characters in the original image through algorithm. |
| ▶ Measurement: Measure the length, width, height, diameter, angle and other features of parts. | |



- The entire inspection of production lines
- Increase production efficiency
- Safe, reliable and stable
- High speed and high accuracy
- Real-time troubleshooting



- Reduce inspection time
- Reduce production cost
- Reduce the fraction defective of product
- Reduce scrapping and reworking
- Reduce human errors