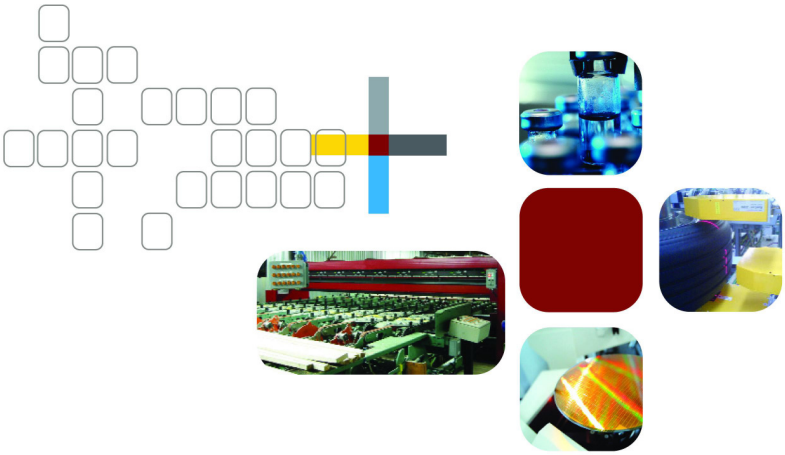


# HexSight

## HIGH ACCURACY RECOGNITION AND METROLOGY

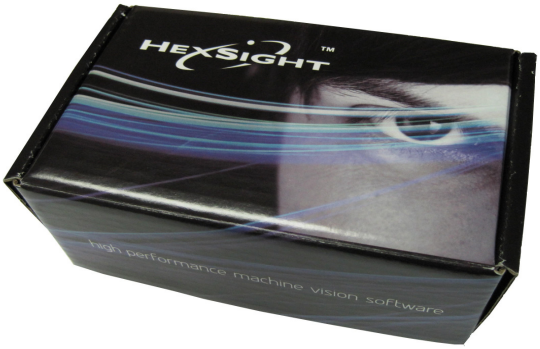
**A comprehensive machine vision library based on a mature and well-established pattern recognition technology.**

HexSight geometric pattern recognition technology provides flexible and robust contour-based modeling of objects to locate parts / features regardless of scale or orientation. Moreover, integrated calibration and inspection tools with color support make automated quality control easy and reliable.

**LOCATOR TOOL**

**INSPECTION TOOLS**

**OCR / SYMBOLOGY TOOLS**





Find objects that are partially occluded.


Find objects on varying backgrounds.


Find and separate overlapping objects.


Find and differentiate objects based on colour.


Find objects under uneven lighting.


Find objects even when image distorted by clutter.

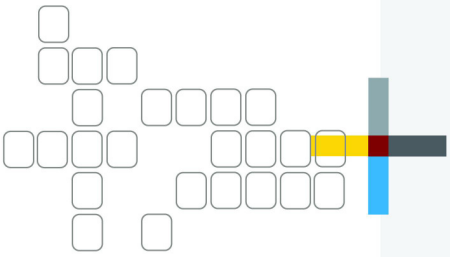

Find objects independent of scale and orientation.

- LOCATOR TOOL: Provides contour-based object location, scale and orientation. The tool supports advanced color discrimination, can handle occlusions, clutter, contrast reversal, non-linear lighting and is capable of distiguishing slight feature differences.
- INSPECTION TOOLS: Various tools with color capability available to inspect and analyze the part including blob analysis, image processing, color matching and metrology functions.
- OCR/ SYMBOLOGY TOOLS: Flexible set of functions to handle 1D bar codes, 2D array codes, and SEMI font recognition.
- EASE OF USE: Minimize development time with many complete demos and tutorials and easy-to-use tools, such as the Process Manager that configures the sequence of processes.

# HexSight

## SPECIFICATIONS

| | |
|---|---|
| **Environment:** | Windows XP (full and embedded) and Windows Vista |
| **HexSight** | |
| **Tools:** | Locator Tool |
| | Finder and Inspection Tools: Arc, Line, Point, Caliper, Edge |
| | Image Processing Tools: Filtering, Morphology, Blobs, Point or Arithmetic |
| | Symbology Tools: 1D Barcode, 2D Data Matrix, OCR Fixed Font |
| **Camera and** | |
| **Frame Grabber:** | For supported cameras and frame grabbers go to: |
| | http://www.lmitechnologies.com/hexsight/compatibles |
| **Accuracy:** | Reports position to 1/40th pixel; orientation to 1/20th |
| | degree, and scale to 1/10th units |



www.LMItechnologies.com

LMI technologies

LMI Technologies Inc. is a research, development, and manufacturing organization specializing in machine vision applied technologies. Awarded more than 100 vision patents, and with more than 50,000 sensors in the field, LMI isa major contributor to the machine vision industry.



<HexSight_DataSheet_HexSight 4.1_v0.pdf>

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