

Machine Vision Fundamentals

The Online Machine Vision Kit provides a structured platform for learning, experimentation and rapid prototyping in industrial automation.



SMP GigE Industrial Camera. High-resolution imaging for precise industrial inspection and automation tasks.



Structured Vision Modules. Comprehensive learning modules covering presence, measurement, and pattern matching.



Expandable to AI & Line Scan. Future-proof platform ready for advanced AI-driven defect detection and line scan imaging.

Capture. Compute. Control.



From Machine Vision Fundamentals to Industrial Automation.
A structured platform for learning and rapid prototyping.

Contact Us



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Scan for more information:



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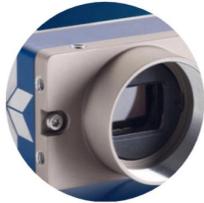


ONLINE MACHINE VISION KIT

Industrial Machine Vision Experience – Ready on Desktop.
Learning with experience of real world problems
Capture | Compute | Control

Industrial Machine Vision Training Courses are also conducted by Online Solutions

Industrial Vision Core System



5MP GigE Camera Platform. GigE Vision Camera. 2448 × 2048 Resolution, Global Shutter.



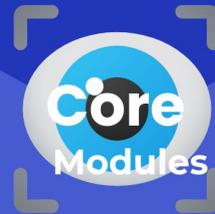
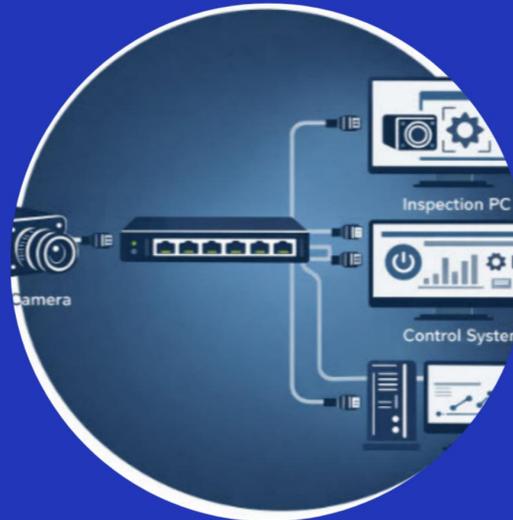
Accessories Included. GigE Interface Card, Standard Lens, Power Supply, Cables, Copy Stand, and Experiment Manual.



Control Integration. Digital I/O, Camera Trigger, RS-232, Ethernet to PLC, and Conveyor-based Sorting Demonstration.

Images are for illustration purposes only
Specifications are subjected to change.

Industrial Machine Vision Modules



Develop live camera based industry vision applications effortlessly with an intuitive point-and-click environment. Leverage a powerful suite of high-performance machine vision algorithms including image processing, segmentation, edge detection, geometry, OCR, barcode reading, and color analysis. Customize deployment interfaces to easily monitor, classify, sort, track, and count objects with precision. Provides user friendly application specific frontend interfacing, control of external devices with different communication and control protocols.

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TELEDYNE



Expandable Vision Lab Platform

Lighting Kit:

LED Lights for different applications with accessories

Optics Kit:

Multiple focal length Lenses and accessories

Line Scan Kit:

Industrial Line Scan Camera based kit.

AI Module:

Data-driven defect detection.



Presence / Absence

Finding the presence and absence of objects in the Field of View



Locating Objects

Locating and finding the position of the object in the Field of View



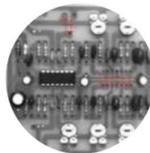
Segmenting Objects

Classify & identify the object of interest



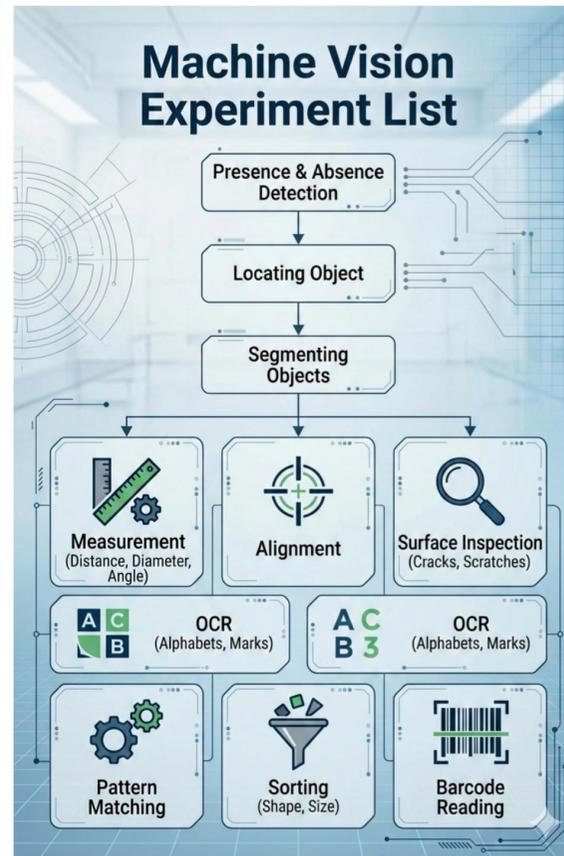
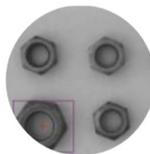
Pattern Matching

Check for correct pattern & placement position & existence of all components (Patterns)



Sorting

Sort items by shape and /or size

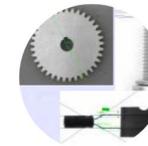


Color Classification

- Extensive Individual Color Training
- Classify and Qualify using color information

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Measurement

Measure

- Distance
- Gap
- Thickness
- Diameter
- Space
- Angle



Surface inspection

Detect cracks, scratches, foreign material, breakage



Optical Character Recognition (OCR)

- Train and Read MARK
- Train and Read alphabets in different fonts



Barcode

Reading Bar Codes and Matrix codes



Alignment

Determine the Placement & Alignment