

PRODUCT OVERVIEW

Introducing e-Eye, a low-cost smart vision solution. Affordability, flexibility and accuracy in one package for a variety of common vision tasks. It is versatile and adaptable to your specific needs.

e-Eye integrates with any GenIcam® compliant camera such as Basler, Allied Vision, Toshiba Teli, Matrix vision, Ximea, webcams*. It may be installed on any windows PC (windows 7 or later), Linux PCs or Raspberry Pi (available soon)



SPECIFICATIONS

- OS: Windows 7 or later, Linux, Raspberry Pi (available soon)
- PC Requirements: 8 GB RAM (16 recommended), 6th gen or later IntelCore i5 or faster (8th gen recommended)
- Camera Compatibility: GenIcam® GenTL® compliant USB3/GigE with producer drivers
- Communication: TCP/IP (SCPI)
- Power Input: 110-240VAC, 50-60Hz

SUPPORTED CAMERA LIST

- All Basler USB3 and GigE vision cameras
- All Allied vision USB3 and GigE vision cameras
- Baumer - using Gapi SDK
- Toshiba Teli - using TeliCamSDK
- Matrix Vision - using mvIMPACT Acquire SDK
- Toshiba Teli - using TeliCamSDK
- Ximea - using Ximea API
- Any usb3/GigE camera with genicam gentl support

KEY FEATURES

- Pattern Detection & Location: Identify and locate complex patterns and defects for parts, substrates, PCBs etc.
- Barcode, QR Code, and OCR: Streamline automation with fast and reliable code recognition.
- Optical Character Recognition: Extract text from images for data gathering and analysis; high speed acquisition of display and gage data for control and other applications.
- Repeatability & Position Accuracy: Achieve sub-micron precision with custom or generic fiducials.
- Dimensional and Geometric Inspection*: Measure part and substrate dimensions and geometry (arcs, lines, center, etc.) for center finding and other applications.
- Lens Distortion Calibration: Enhance positioning accuracy for any application.
- Live video display, snapshots and recording** during operation.
- Manual Metrology Mode: Manual measurements of dimensions in FOV through direct measurements and overlays.
- Camera Array Integration: Managing multiple coordinated cameras for customized imaging, inspection, algorithmic, and other applications.

APPLICATIONS

- Part and Substrate Metrology: Ensure precise measurements and pattern matching for optimal yield.
- OCR, Barcode reading, QR code reading for automation: Extract critical information from labels and documents.
- Repeatability Testing: Automate repeatability tests for improved process control and much more.

INTERFACE

- Easy to use UI with data logging, analysis and report generation.
- TCP/IP interface for easy integration into third party applications

ONE STOP SOLUTION

- Get everything you need in one affordable package: hardware, software, and support.
- No expensive proprietary systems or locked-in cameras.
- Works with any GenIcam® compatible USB3/GigE camera with producer drivers.
- Wide range of lenses and lighting available for diverse applications.

*nominal inexpensive customization may be needed
** recording upto 720p, 30fps

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