

Product Overview

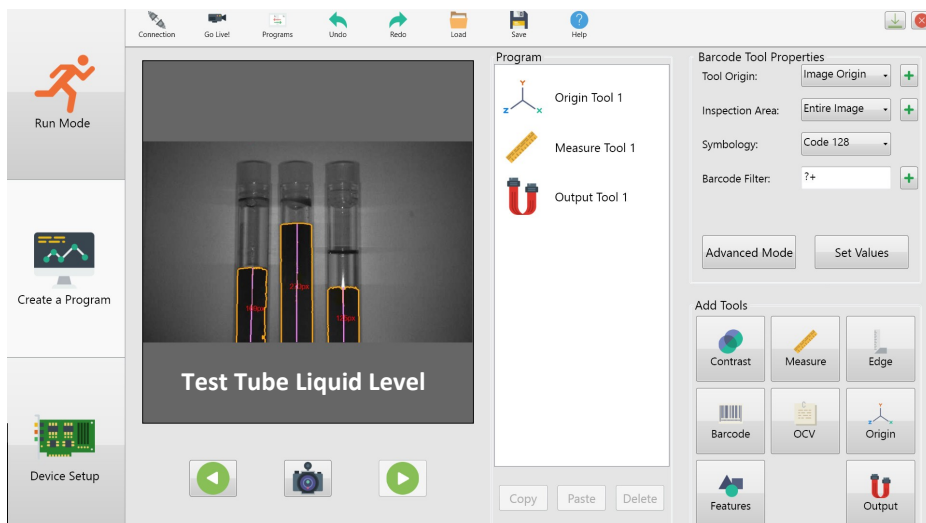
EVInspection Embedded Vision Platform

The EVInspection software from Diamond Technologies provides an embedded vision inspection platform for vision inspection in medical devices, lab instrumentation, and OEM automated equipment. The software provides a comprehensive suite of tools including Blob detection, contrast detection, OCV, and measurement. These tools can be combined to create comprehensive, easy to use and understand, vision inspections to perform tasks such as:

Determine presence of a sample
Test tube height
Test tube liquid level detection
Lot and Date code print identification
Location of an object
Cap presence/absence

The graphical vision tools are easy to use and intuitive. A Windows based PC is used to configure vision inspections. Realtime images can be viewed and vision program results are easily identified.

EVInspection software applications run on Diamond Technologies embedded smart processors. These provide an integrated, cost effective, OEM solution for vision inspection and barcode reading.



Features

- Windows based configuration
- Easy to use graphical tools
- Contrast detection
- Blob detection
- Measurement
- Edge detection
- OCV
- Integrated Barcode
- OEM camera modules supported

Applications



EVInspection is specifically designed for medical, lab instrumentation, and OEM automated equipment:

- Medical sample analysis
- Reagent flow
- Tube present
- Part location
- Cap presence
- Label presence
- Lot code/Date code
- Liquid level

Technical Specifications

Tools

Barcode	Read and decode 1D, 2D barcode
Blob	Search and identify a defined shape
Contrast	Identify contrast levels black and white
OCV	Optical character verification
Edge	Locate the edge of an object
Measurement	Measure a defined object
Origin	Set an origin location from which to search an image

Supported OS

Microsoft Windows 10 OS for configuration and programming.

Supported Smart Embedded Processors

EV01-M-01	1D, 2D embedded imager WVGA
EV01-E-01	1D,2D embedded imager enclosed WVGA

WARRANTY

WARRANTY	1 Year Factory Warranty
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I/O

4 Digital configurable as either DI or DO

