

CONSULTING | SOLUTIONS | SERVICES

Unilogic Technologies, an automation company, specializes in providing end-to-end solutions for Machine vision and computer based Measurement and Automation primarily using National Instruments Products.

Our expertise in the fields of data acquisition, image acquisition and industrial automation hardware coupled with our proven expertise in developing reliable and feature-rich software allows us to provide advanced yet cost-effective customized solutions of world-class quality. We have an experienced group of LabVIEW professionals over nine years of experience in developing and delivering software solutions.

Machine Vision Solutions

- Smart Camera based vision system
- PC based vision systems
- Sorting systems
- RoboVISION, GaugeVIEW, Segment Checker, ANPR



Test & Measurement Solutions

- LabVIEW & TestStand Software Development
- Automated Testing Equipment (ATE)
- Turnkey Systems



UNILOGIC

Machine Vision and Test & Measurement Solutions

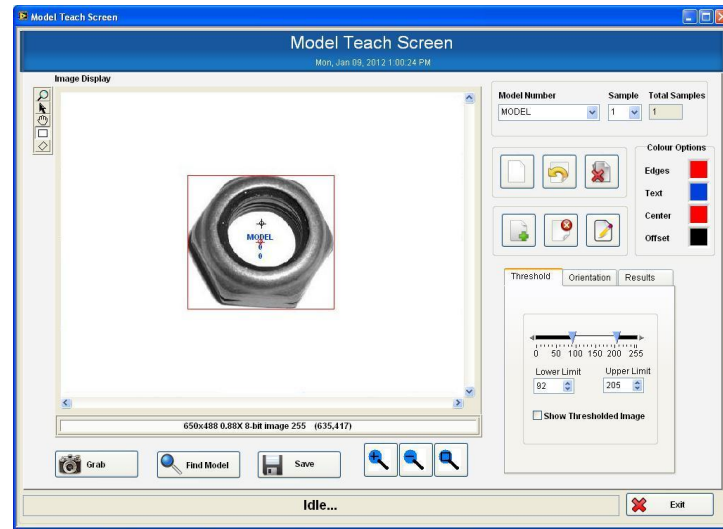


RoboVISION

Unilogic Technologies

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Give your Robots the power of vision...



Learns different models of your products

TEACH VARIETY OF PRODUCT RANGES YOU HAVE

RoboVISION can learn different models of products you have with intuitive user interface. Model teaching screen allows you to create infinite number of models of your product and accepts array of sample images for each model to learn the variations in product input. This screen includes an image display to check the model learned with real time images, so that performance can be verified before deploying to production.

This screen allows the user to create template of the input image by which user can specify the custom origin and orientation of the product in loading condition. Advanced image processing algorithms are used to accommodate scale, rotation and occlusion variant applications. User can specify custom ranges to accept and reject in each criteria. Occlusion will be useful to pick the parts from top surface, which is typical in bin unloading applications.

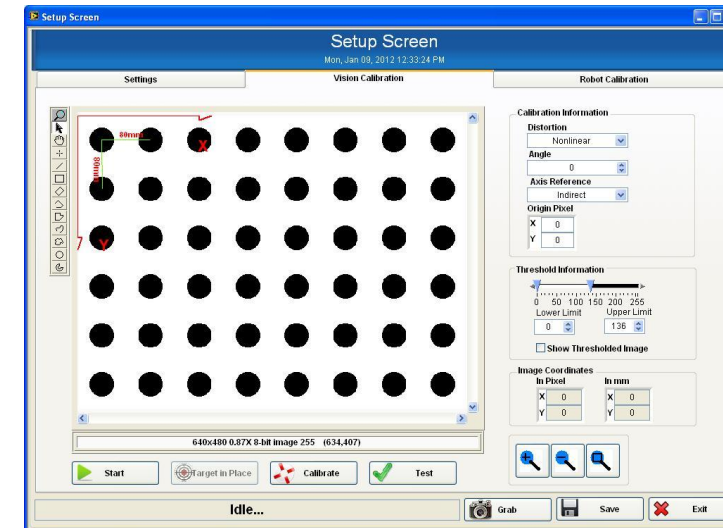
ROBOVISION APPLICATIONS.

- AUTOMATED PALLETIZING
- COMPONENT ASSEMBLY
- CONVEYOR TRACKING
- ROBOTIC INSPECTION
- PART SORTING
- DEFECT PICKING
- COLOR SORTING
- PART COUNTING
- ROBOT WELDING
- PACKAGING

Calibrates Vision and Motion

TEACH YOUR VIEW AND ROBOT MOTION

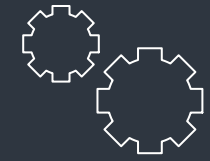
RoboVISION includes self guiding screens to calibrate the field of view in to real world measurements. Advanced Calibration techniques can even correct for non linear and perspective errors which occurs due to larger field of view. User can verify the calibration in the same screen. Soft Teach Pendant can control the robot directly from this software, which eliminates the hardware interactions by the user.



Finds, Picks and Updates in live

SET IT TO RUN SEE IT LIVE

RoboVISION run screen lists the selected model found in the field of view. Based on the sorting criteria it identifies the part to be picked and sends the coordinates to the robot. As the robot keeps picking the parts, user can see the updated image in real time. Sorting criteria can be based on best match or least occlusion depending on user need. Results table view gives the list of possible picks in queue; optional alerts can be given to the loading operator or conveyor to load the next bin.



CUSTOM SOLUTIONS

Flexible software modules to adapt different types of robots and machine vision cameras. Tailored software solutions to fit customer needs, such as low part alarm, operator alerts etc,



USER INTUITIVE SOLUTIONS

Graphical User Interface to guide the user through the calibration and setup modules. Verification steps built into each module helps the user to setup the system with basic vision knowledge.



ROBOT CONTROL SOFTWARE

Handy software screen to move and jog the robot axis individually. User can use this to position the robot anywhere in the field of view without actually using the hardware teach pendant.