

# IMAGINGLAB ROBOTICS LIBRARY FOR MITSUBISHI

Toolkit for Directly Commanding and Controlling MITSUBISHI Robotics from NI LabVIEW

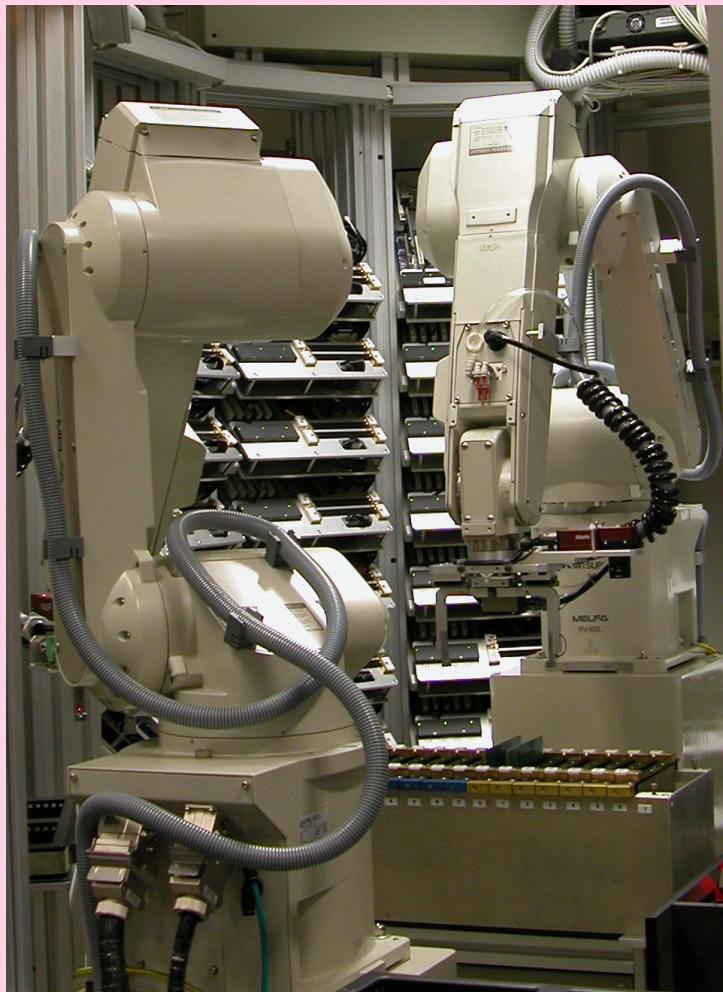
## OVERVIEW

The ImagingLab Robotics Library for MITSUBISHI is an easy-to-use library of graphical functions that you can use to command and control MITSUBISHI robotics directly from National Instruments LabVIEW. With the library you can:

- Build complete industrial robotics systems entirely in LabVIEW
- Download programs into MITSUBISHI controller
- Run pre-existing routines on MITSUBISHI controllers
- Easily develop vision-guided robotics applications
- Integrate measurements and vision into robotics systems

## ROBOTICS MADE EASY

Today's high-mix, low-volume production machines require smarter robots that can interact with their environment through measurements and vision. LabVIEW is enabling new applications for industrial robots by integrating measurements, vision, robot control and HMI into one, easy-to-use environment. With the ImagingLab Robotics Library for MITSUBISHI, you can make your robotics system smarter without the need for complex robotics programming expertise. Beyond flexible manufacturing, with the library you can integrate MITSUBISHI robotics into new types of systems and applications for automated test, laboratory automation and precision manufacturing.

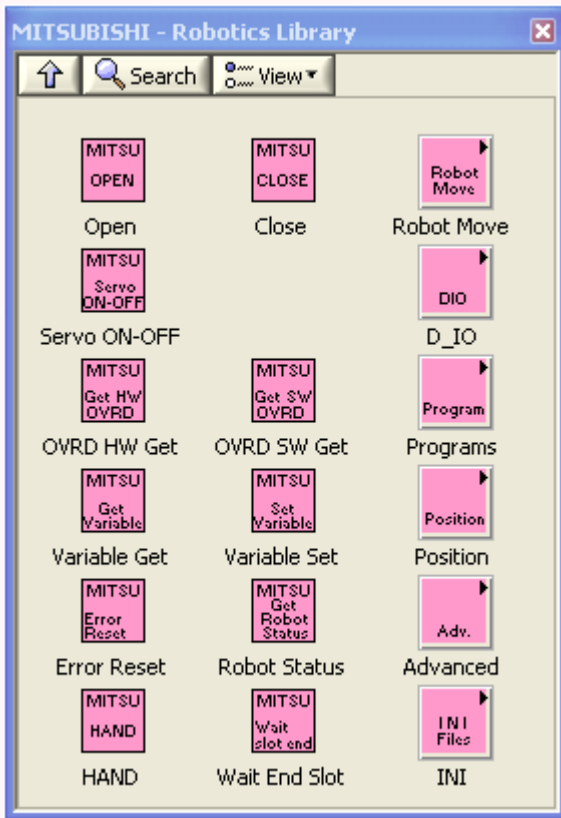


*Figure: automated DIMM memory testing*

Using a single LabVIEW application, this robotics cell is FULL VISION GUIDED using a CCD camera on the hand of the robot. A tower of 64 motherboards, a common working area, an AOI (automated optical inspection) and two MITSUBISHI RV-6SL are the winner bricks!



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The ImagingLab Robotics Library for MITSUBISHI installs as a functions palette in LabVIEW. The LabVIEW graphical programming language has enabled millions of scientists and engineers to develop complex measurement and control applications very quickly and easily.

The ImagingLab Robotics Library for MITSUBISHI also works with LabVIEW Real-Time systems, which combines LabVIEW graphical programming with the power of a real-time operating system.

The library can run on the NI Smart Cameras for integrated vision-guided robotics and works with NI data acquisition hardware for the measurement of very simple or highly sophisticated applications.

## FEATURES AND BENEFITS

### 1. *Faster Application Development*

LabVIEW is a graphical programming environment used by millions of engineers and scientists to develop sophisticated measurement, test, and control systems using intuitive graphical icons and wires that resemble a flowchart. Because the ImagingLab Robotics Library for MITSUBISHI works with LabVIEW, engineers and scientists who are not robotics experts can now quickly integrate them into their applications.

### 2. *Single Software Environment*

Production machinery is becoming more sophisticated, which means robots need to integrate into flexible manufacturing cells along with part feeders, user interfaces and vision & measurement systems. With the ImagingLab Robotics Library for MITSUBISHI an entire application can be designed and written in a single LabVIEW application.

### 3. *MITSUBISHI ELECTRIC is your Global supplier*

MITSUBISHI ELECTRIC is your partner for all Factory Automation products: PLC, HMI, Servo Drives, Inverters and Robots.

MITSUBISHI's range of advanced robots offers speed, accuracy and compact design as well as long life.

MITSUBISHI robots deliver class leading benefits for small-medium robot applications. A complete range of SCARA and Vertical Arms from 1 to 18 kg and a complete range of application: food, packaging, assembly, testing, education.



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