

## IN-SIGHT 2D ROBOT GUIDANCE FOR UNIVERSAL ROBOTS

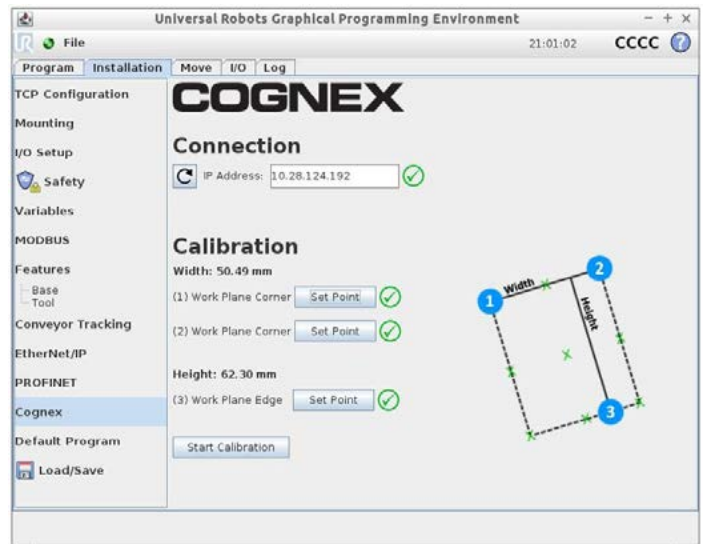
The Cognex® In-Sight® 2D Robot Guidance URCap plugin greatly simplifies the communication, hand-eye calibration, and vision-guided robotics development between a UR robot and a Cognex 2D vision system.

The plugin takes advantage of Cognex's world class vision tools for any robot application. The system can be used to guide the robot to specific coordinates, inspect the part after manipulation, and output valuable data for downstream analysis.

### Benefits at a glance

- Greatly simplifies two of the main challenges in vision guided robotics:
  1. Establishing communication between the systems
  2. Performing the hand-eye calibration
- Intuitive URCap interface guides users through the procedure.
- Fully integrated into Cognex In-Sight Explorer™ software, providing access to the industry's most powerful and robust vision tools.
- Compatible with any spreadsheet-enabled In-Sight vision system.

## UNIVERSAL ROBOTS +



# How it works

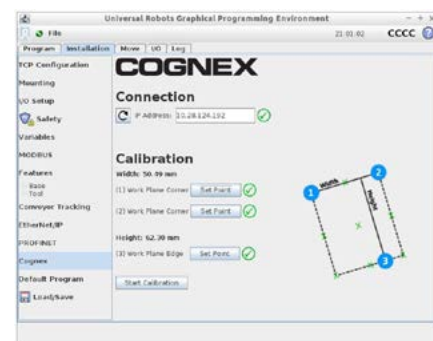
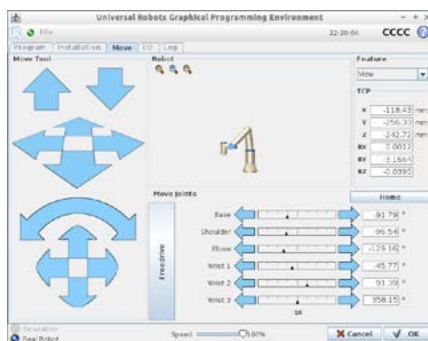
## 1. Establish communication

The URCap interface provides feedback when the vision system and robot have successfully established communication.



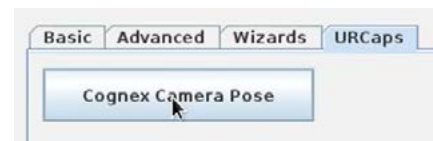
## 2. Perform hand-eye calibration

The interface guides the user through the steps required for a hand-eye calibration between the robot and the vision system.



## 3. Train camera pose for pick/place operation

Once a calibration file has been produced, the Cognex Camera Pose command in the URCap software programs the robot to perform a vision-guided movement.



## Resources

Get started by downloading the URCap software\* and In-Sight/URCap user manual

[www.cognex.com/URCap](http://www.cognex.com/URCap)

Learn more about the Cognex In-Sight 2D Robot Guidance on UR+ Solutions

[www.universal-robots.com/plus/accessories/cognex-in-sight-2d-robot-guidance](http://www.universal-robots.com/plus/accessories/cognex-in-sight-2d-robot-guidance)

\* Compatible with In-Sight Explorer 5.7 and greater



Companies around the world rely on Cognex vision and barcode reading solutions to optimize quality, drive down costs and control traceability.

Corporate Headquarters One Vision Drive Natick, MA 01760 USA

### Regional Sales Offices

#### Americas

North America +1 844-999-2469  
Brazil +55 (11) 2626 7301  
Mexico +01 800 733 4116

#### Europe

Austria +49 721 958 8052  
Belgium +32 289 370 75  
France +33 1 7654 9318  
Germany +49 721 958 8052

Hungary +36 800 80291  
Ireland +44 121 29 65 163  
Italy +39 02 3057 8196  
Netherlands +31 207 941 398  
Poland +48 717 121 086  
Spain +34 93 299 28 14  
Sweden +46 21 14 55 88  
Switzerland +41 445 788 877  
Turkey +90 216 900 1696  
United Kingdom +44 121 29 65 163

#### Asia

China +86 21 6208 1133  
India +9120 4014 7840  
Japan +81 3 5977 5400  
Korea +82 2 539 9980  
Malaysia +6019 916 5532  
Singapore +65 632 55 700  
Taiwan +886 3 578 0060  
Thailand +66 88 7978924  
Vietnam +84 2444 583358

© Copyright 2018, Cognex Corporation.  
All information in this document is subject to change without notice. All Rights Reserved. Cognex and In-Sight are registered trademarks of Cognex Corporation. In-Sight Explorer is a trademark of Cognex Corporation. All other trademarks are property of their respective owners. Lit No. DSURCap-11-2018

[www.cognex.com](http://www.cognex.com)