

Universal Robots Integration

Open New Possibilities with Actin®

Why use Actin® for your UR integration?

Actin® is a robotics control and simulation software package that brings new capabilities to your UR robot and integration workflow.

With Actin®, your UR robot will be able to follow tool paths you define in CAD, avoid self collisions, singularities and objects in the workspace. Need to coordinate multiple robots or add additional axes to the arm to extend the workspace? Actin® was built for this. Actin's real-time collision avoidance, coordinated control of high DOF manipulators, and multi-arm tasking framework will open up new applications for your UR robots.

During the integration process, Actin® empowers you to rapidly iterate through work cell designs in simulation to evaluate placement of components, tooling, and robots before buying or setting up hardware. Scripting complex tasks is easy in Actin® through an intuitive graphical programming interface.

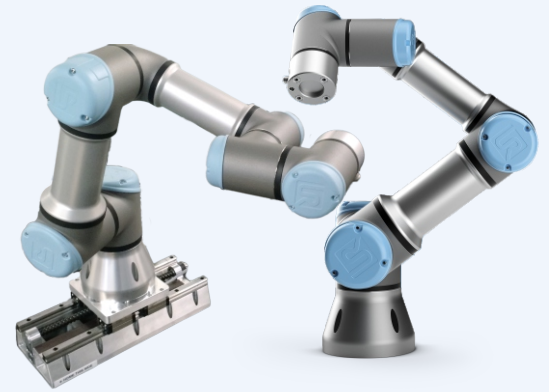
How does it work?

With Actin®, you can reduce integration effort while enabling a new set of capabilities for your UR robots. Here is how it works:

1 - Design Using the Actin® Manipulation Director™ interface, you drag and drop building blocks to create your task script. These building blocks include configurable waypoint sequences, custom tool paths from CAD, IO actions, and sensor feedback just to name a few. New building blocks can be added at any time.

2 - Refine Test your scripts in simulation and iterate on robot selection and workcell layout. Actin® scripts are robot agnostic and motions are relative to objects in the workspace. Need to move the part, try a different arm or add an extra axis? No problem, Actin will dynamically update the motion sequences without requiring you to edit the task script.

3 - Deploy Once the workspace, part placement, and robot configuration are set, it is time to run with hardware. You have two deployment options: 1) Online control to unlock full capabilities of Actin®, 2) Offline control using URScript generation. Both options work seamlessly with the UR control box and retain all UR safety features.

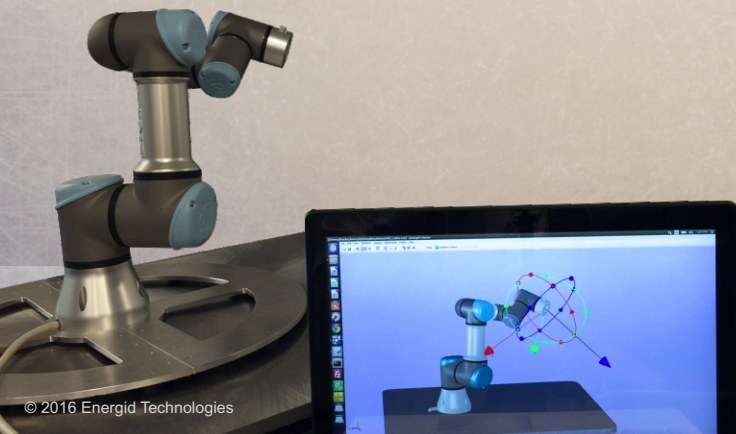


Actin® Advantages

- Work cell simulation
- Control additional axes
- Coordinate multiple arms
- Tool paths from CAD
- Environment and self collision avoidance
- Singularity avoidance
- Online control or offline URScript generation
- IO and sensor support

Actin® - Built for Collaboration

- Builds on top of UR safety
- Rapid design validation
- Design robot tasks graphically from the comfort of your desk
- Configure avoidance zones
- Supports safety assessments
- Improved ROI and reduced integration effort



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