UNIVERSAL ROBOTS
Polyscope

Simulator for different robot types

Password modification in Linux: easybot

URSim UR3   Programs UR3
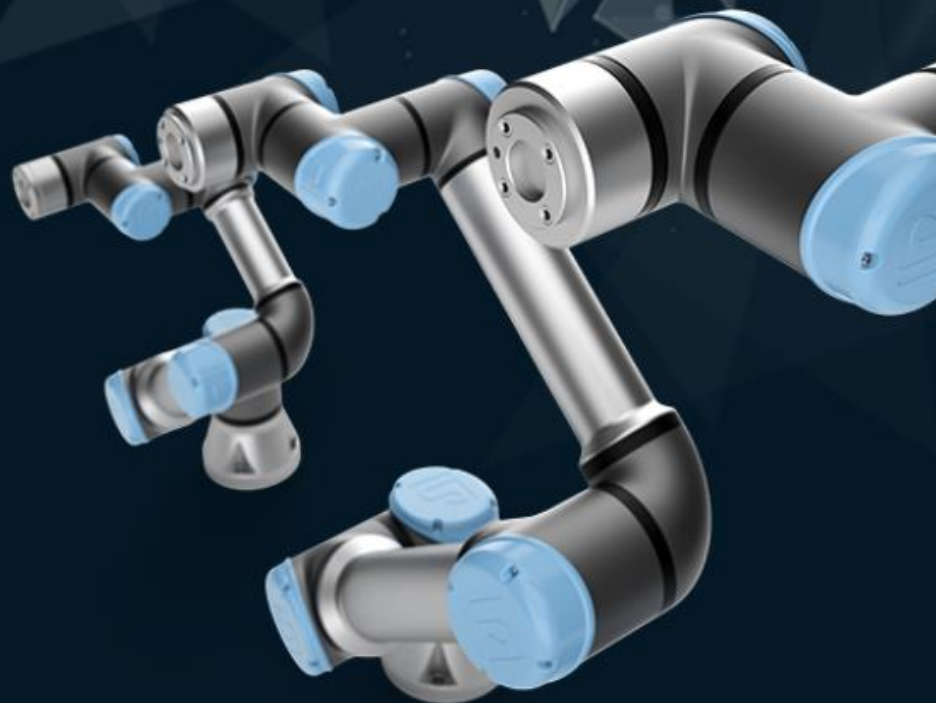
URSim UR5   Programs UR5

URSim UR10

URSim UR16   Programs UR16

Open the UR5 simulator

Designed and Built in Denmark

US   10:55

PROGRAM <unnamed>
INSTALLATION default

New... Open... Save...
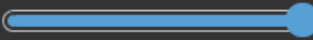
Run Program Installation Move I/O Log

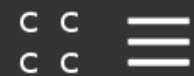## Getting Started

What would you like to do first?

RUN A PROGRAM

PROGRAM THE ROBOT

CONFIGURE ROBOT INSTALLATION

Don't show this message again

Power off

Speed ——————●— 100%

Simulation

Universal Robots ...

US 10:57

Universal Robots Graphical Programming Environment

Initialize

Robot Status

Power OFF

Booting

Robot Idle

Brake Release

Robot Operational

● ON

● OFF

Confirm if Installation and Payload are correct and press the ON button to start.

Payload

⚠ Active Payload is used to temporarily overwrite the Installation Payload.

Active Payload

0.00 kg

Installation Payload

0.00 kg

Robot

Power ON the robot first

Exit

PROGRAM <unnamed>
INSTALLATION default

New... Open... Save...

Run Program Installation Move I/O Log

Power off

Speed ———————100%

Simulation

US 10:58

PROGRAM <unnamed>
INSTALLATION default

Run Program Installation Move I/O Log

New... Open... Save...

Initialize

Robot Status

✓ Power ON ✓ Booting Complete ● Robot Active Brake Release Robot Operational

● START   ● OFF

⚠ Warning! Stay clear of the robot when starting it!

Payload

⚠ Active Payload is used to temporarily overwrite the Installation Payload.

Active Payload   Installation Payload
0.00 kg   0.00 kg

Robot

Exit

● Idle   Speed ▬▬▬▬▬●▬ 100% ▶ ⏭ ⏹   Simulation ⬤

US 10:58

Universal Robots Graphical Programming Environment

PROGRAM <unnamed>
INSTALLATION default

New...   Open...   Save...

Initialize

Robot Status

✓ Power ON   ✓ Booting Complete   ✓ Robot Active   ✓ Brakes Released   ✓ Robot in Normal Mode
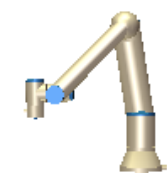
● START   🔴 OFF

Payload

⚠️ *Active Payload is used to temporarily overwrite the Installation Payload.*

Active Payload
0.0 kg

Installation Payload
0.00 kg

Robot

Exit

● Normal   Speed ▭▭▭▭▭ 100%   ▶ ⏭ ⏹   Simulation ⬤

US 10:58

PROGRAM <unnamed>
INSTALLATION default

New... Open... Save...

Run Program Installation Move I/O Log

Getting Started

What would you like to do first?

RUN A PROGRAM

PROGRAM THE ROBOT

CONFIGURE ROBOT INSTALLATION

☐ Don't show this message again

● Normal   Speed ▬▬▬▬▬▬▬ 100%   ▶ ⏭ ⏹   Simulation ⬤

Universal Robots ...   🔊 US 10:59

Run   Program   Installation   Move   I/O   Log

New...   Open...   Save...
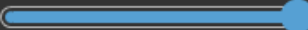
? Help

i About

⚙ Settings

⏻ Shutdown Robot

Getting Started

What would you like to do first?

RUN A PROGRAM

PROGRAM THE ROBOT

CONFIGURE ROBOT INSTALLATION
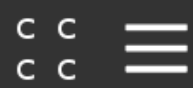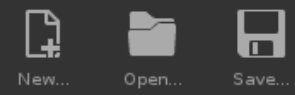
☐ Don't show this message again

Normal

Speed [========================] 100%

Simulation

Universal Robots ...

US   11:00

Run | Program | Installation | Move | I/O | Log

New... | Open... | Save...

Settings

> Preferences

> Password

∨ System

    System Backup

    URCaps

    Robot Registration

    Remote Control

    Constrained Freedrive

    Network

    Update

Exit

System Backup

Make a System Backup of the entire system

⚠ Use USB port in the Control Box. Requires a disk with 4 GB available storage space

Step 1 Select location:

    Select Location

empty

Step 2 Start Backup:

    Start Backup

Restore System

If you have made a backup of your system, you can restore it

⚠ Use USB port in the Control Box

Step 1 Select location:

    Select File

empty

Step 2 Start Restore:

    Restore

Normal | Speed ——————●— 100% | ▶ ⏭ ⏹ | Simulation

Universal Robots ... | US 11:00

Universal Robots Graphical Programming Environment

PROGRAM <unnamed>
INSTALLATION default

New... Open... Save...

Settings

> Preferences
> Password
∨ System

System Backup
URCaps
Robot Registration
Remote Control
Constrained Freedrive
Network
Update

Exit

Network

Select your network method

◉ DHCP
○ Static Address
○ Disabled network

✗ Not connected to network!

Network detailed settings:

IP address   192.168.230.128
Subnet mask: 255.255.255.0
Default gateway: 0.0.0.0

Preferred DNS server: 192.168.230.1
Alternative DNS server: 0.0.0.0

Apply

Ping from your machine to the robot to check the connection is working

Normal   Speed ▬▬▬▬▬▬ 100%   Simulation

Settings

> Preferences

> Password

∨ System

System Backup

URCaps

Robot Registration

Remote Control

Constrained Freedrive

Network

Update

Exit

Network

Select your network method

◉ DHCP

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Network detailed settings:

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Default gateway:	0.0.0.0
Preferred DNS server:	192.168.230.1
Alternative DNS server:	0.0.0.0

Apply

Normal

Speed ───────────── 100%

Simulation

Choose Move to see the robot's updated position

Universal Robots Graphical Programming Environment

Run | Program | Installation | Move | I/O | Log

PROGRAM <unnamed>
INSTALLATION default

New... | Open... | Save...
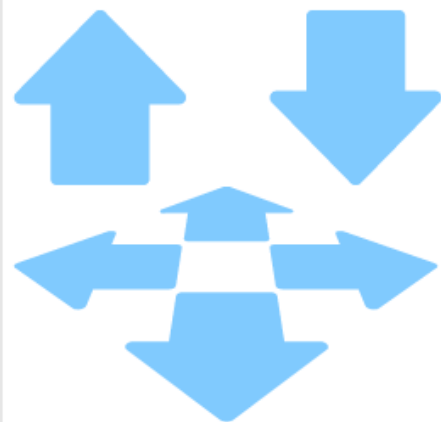
TCP Position

TCP Orientation
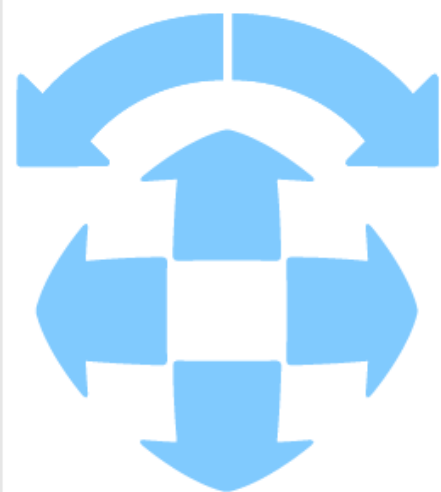
Robot

Feature
View

Active TCP
TCP
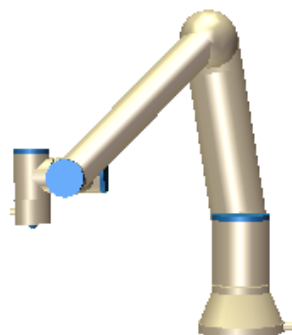
| | Home | Align | Freedrive | > |

Tool Position

X	-143.97	mm	RX	0.001	rad
Y	-435.62	mm	RY	-3.166	rad
Z	-197.97	mm	RZ	-0.040	rad

Joint Position

Base	-91.71	°
Shoulder	-98.96	°
Elbow	-126.22	°
Wrist 1	-46.29	°
Wrist 2	91.39	°
Wrist 3	-1.78	°

Normal

Speed   100%

Simulation

Universal Robots ...   US 11:02