

START GUIDE

YOUring

Smart Light Tool



tools.alumotion.eu

What's in the box



- Nr. **1** YOUring
- Nr. **1** Connecting tool cable
- Nr. **1** USB bluetooth key
- Nr. **1** USB Aluotion key (manual and software)
- Nr. **4** Screws (TCEIR M6 x 50mm)
- Nr. **8** Flat Washers



YOUring Set

Note:

Screws are suitable for Robotiq 2F185/140 grippers.

Flat washers, two for any screw, are just for testing YOUring in stand alone mode.

Specifications



Diameter / Height	82 mm / 40-46 mm
Weight	300 g
Peak current request	400 mA
[buzzer	100 mA]
[all white led on	300 mA]



YOUring view, with a tool mounted

Description

The YOUring is a tool for enhancing the efficiency and collaboration between the user and the robot, ensures safety and free of movement.

The robot with the YOUring can show the direction of the movement, by tracing the positions with the led.

The user can benefit of a new freedrive button, directly on the tool flange of the robot and setup specific colors in order to trace specific behaviors, during the execution of a program, or also to signal a particular safety mode of the robot.

With the installation of the YOUring, new Polyscope commands are available to the user:
YOUring instruction to setup lights and buzzer and Wait YOUring button instruction to wait when the user presses one or more of the YOUring buttons.

And the new YOUteach instruction to save the points in freedrive mode and record the points of the robot on the fly.

YOUring
Smart Light Tool



Instructions

1. Physical mounting of the YOuring on the tool flange



2. Connect the cable between the YOuring and the tool flange

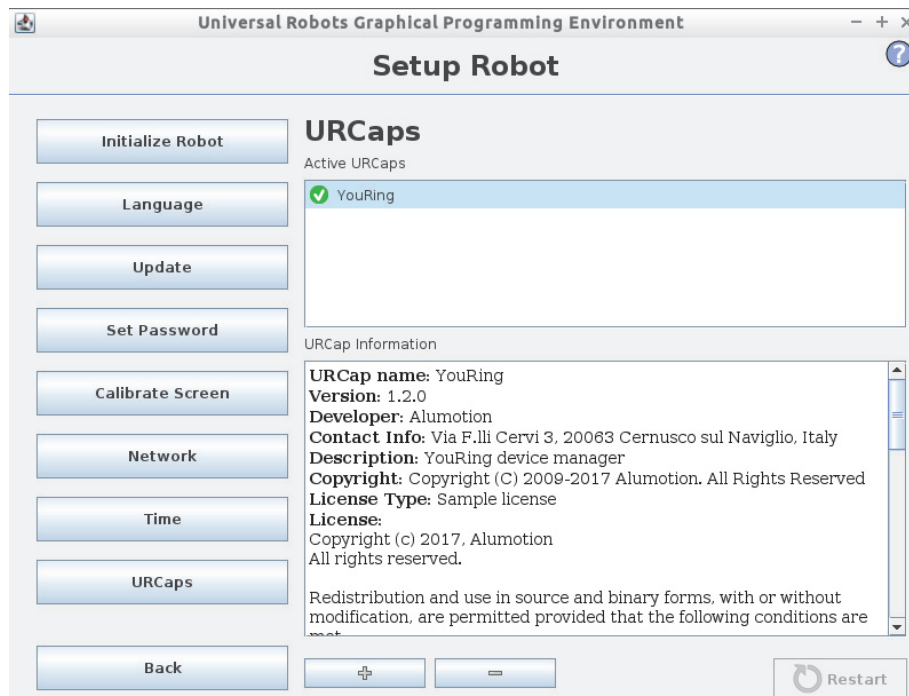


Note:

Be careful to the guide on the jack for a correct mounting.

Instructions

3. Installation of the URcap in the Setup of the robot
(software provided in the Alumotion USB key included in the box)



URcap installation

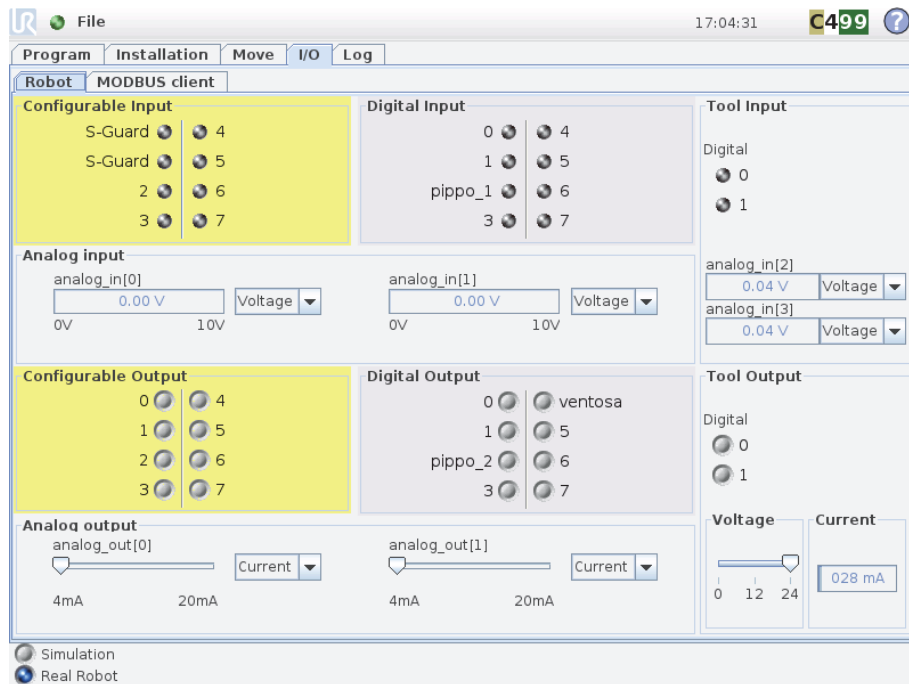
4. Insert the USB bluetooth key in the control box



USB Bluetooth Key connected

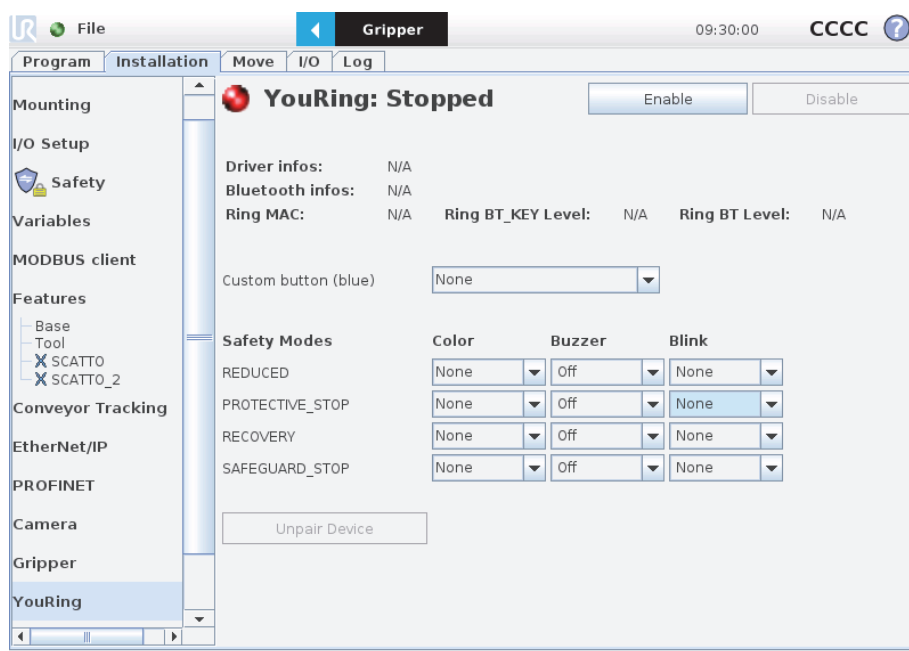
Instructions

5. Check the 24V on the tool voltage in the I/O tab and save the installation



I/O check (tool output)

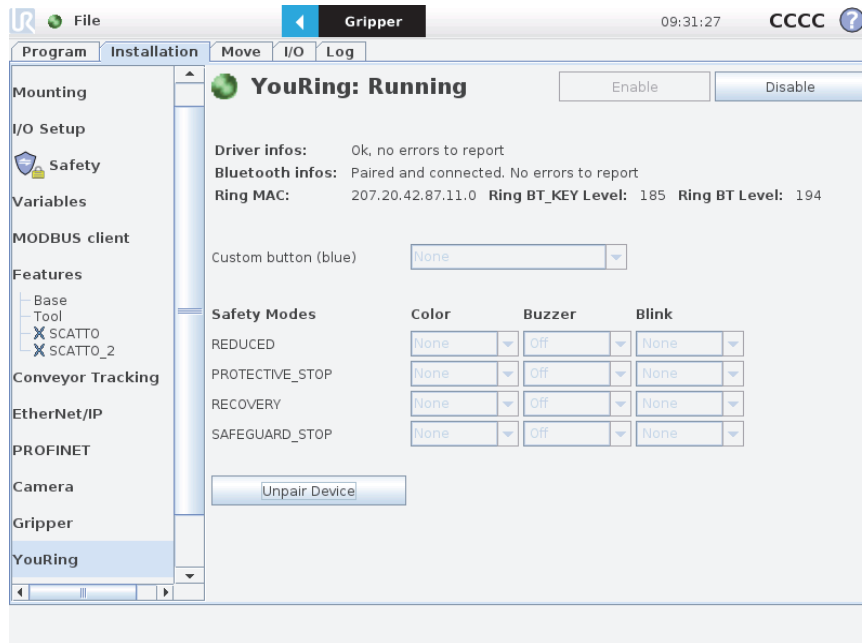
6. Click enable in the YOURing section



Activation of the YOURing

Instructions

7. Save the installation



YOUring up and running

Note:

Once the installation is complete and saved, when the user starts the robot, a 'bip' sound is earable and the YOUring is ready to work.

It's possible to:

1. Unpair the YOUring and the Bluetooth key by pressing the 'Unpair Device' button using the default password 'alumotion'.
2. You can pair the YOUring and the Bluetooth key by pressing the two buttons (blue and black) on the YOUring to start the automatic procedure of pairing

Configuration

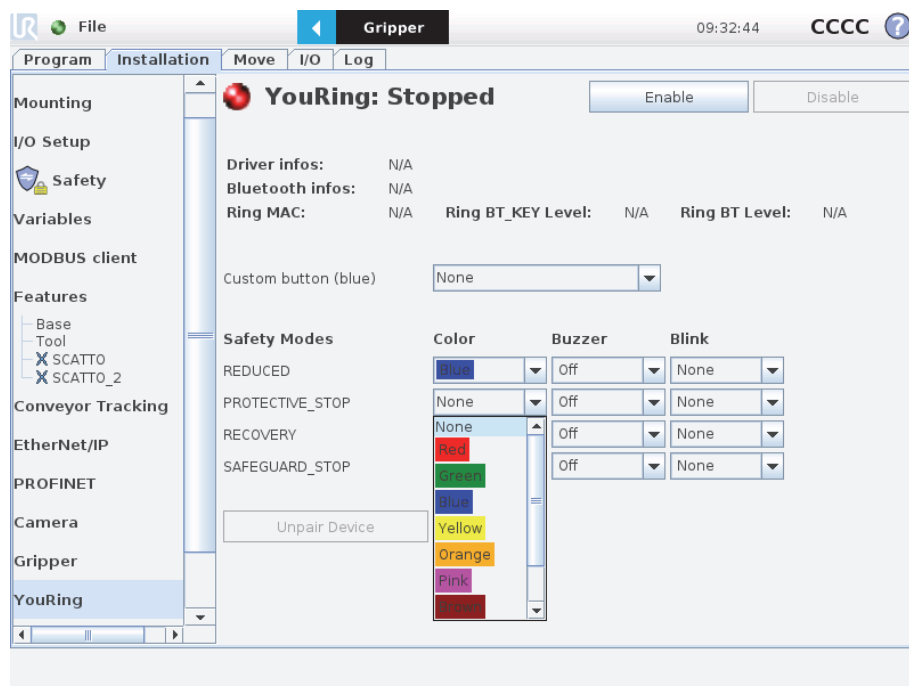
When the YOuring is not activated it's possible to:

1. Configure the blue button, wich corresponds to the custom button, in order to activate a script in the robot. Please remember to save the installation everytime a script is modified.

Once the YOuring has been activated, the pressing of the blue button will activate the script.

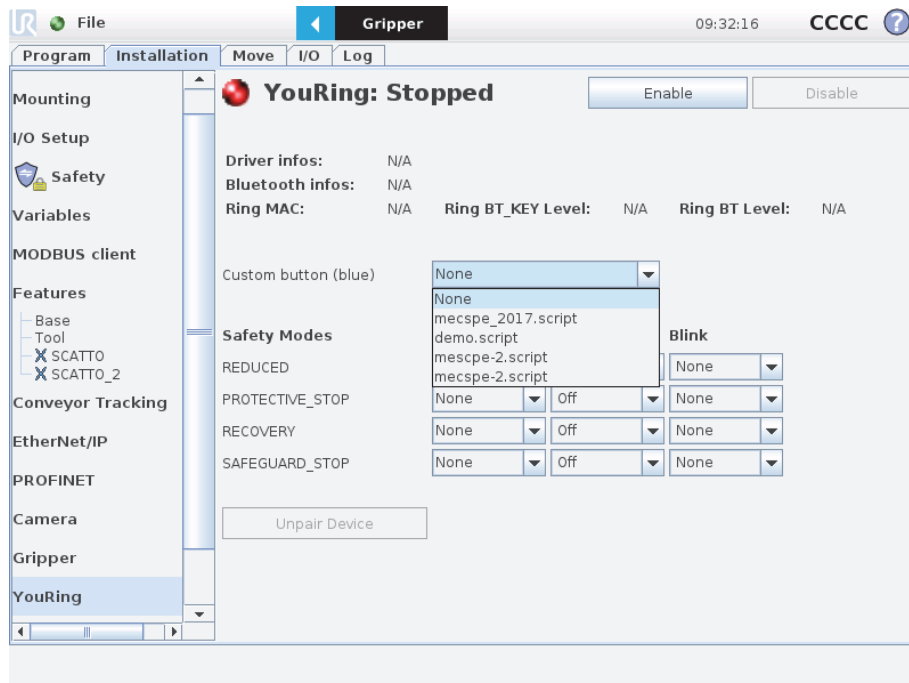
Attention: this functionality is available with the robot in stop program, not in running program.

2. Configure light, sound and blinking for the safety modes indicated in the figure. E.g. when the robot goes in protective stop mode, the YOuring starts blinking yellow.



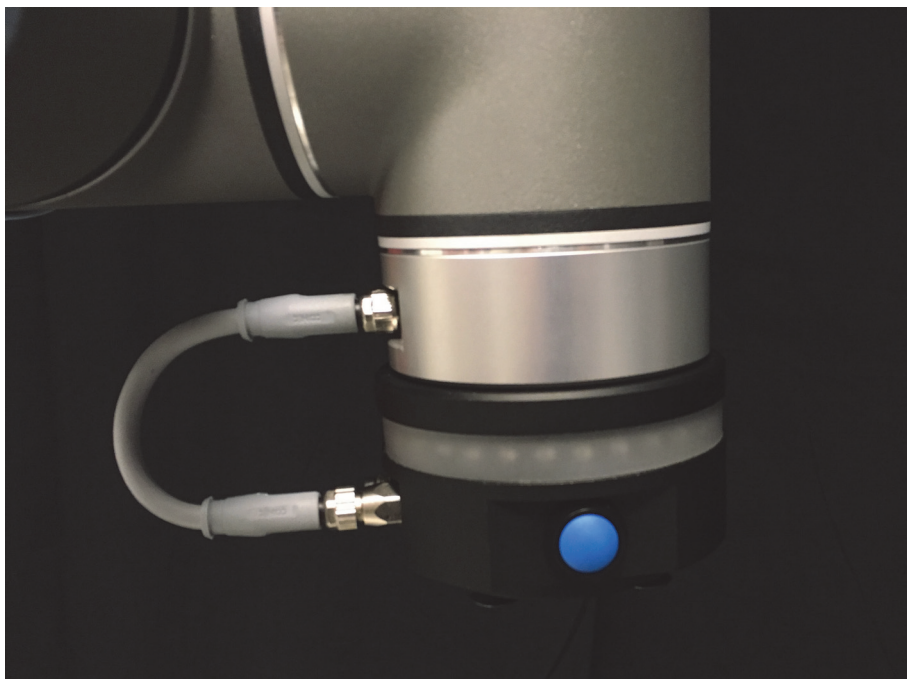
Configuration of the custom button and safety modes settings

Configuration



Setup of the user scripts for the custom button

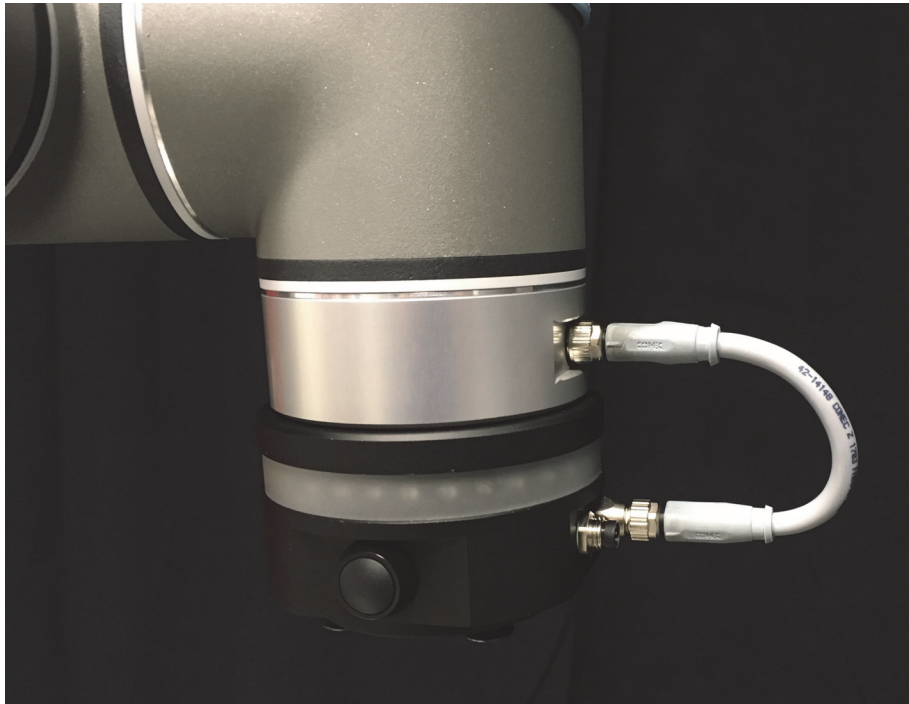
Note: the script chosen works only when the program is not in execution



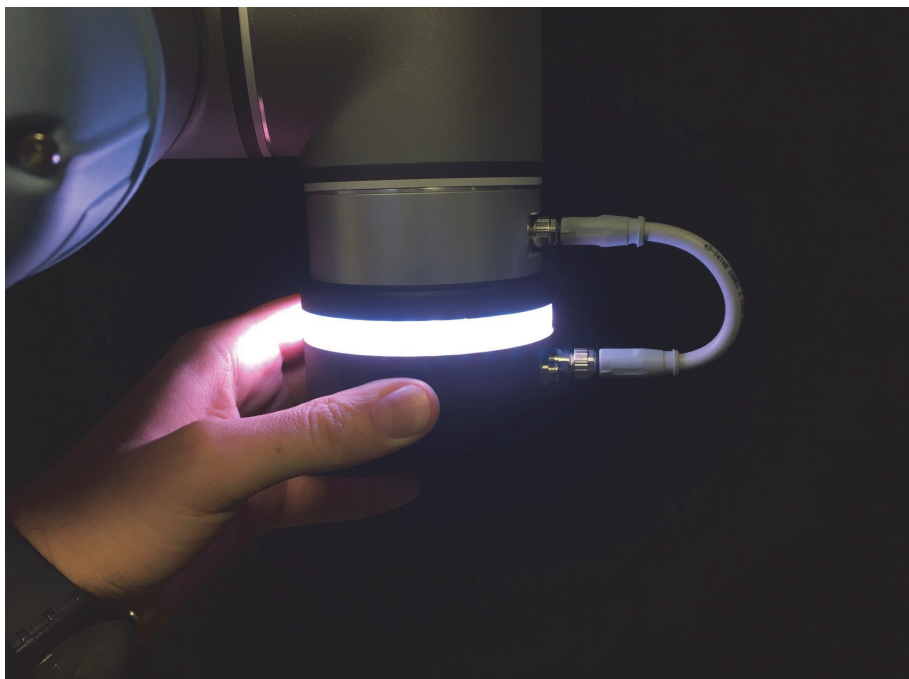
View of the custom button

Configuration

The black button corresponds to the YOuring freedrive

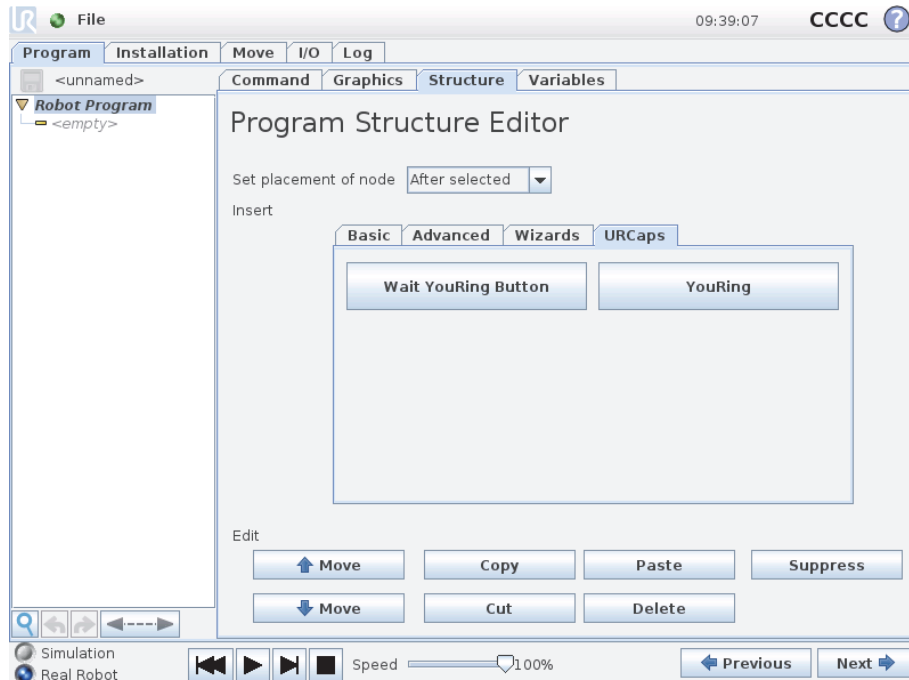


View of the freedrive button

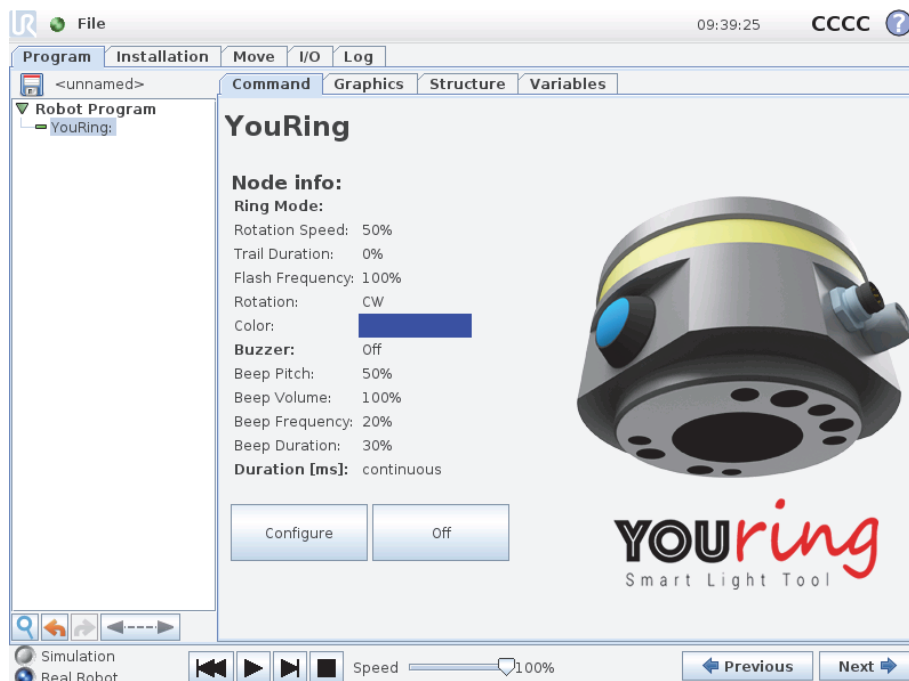


Freedrive activated

YOuring Program Instructions



Urcaps section with the two new instructions



Command view of the YOuring button

YOUring Program Instructions

In the Led Setup the user can manage the leds on the tool, by selecting one of the options: a single or more led, a moving led, rainbow, or the motion tracker.

The motion tracker let the user see where the tool flange of the robot is moving, by showing leds in the direction of the movement, with the color and behavior chosen.

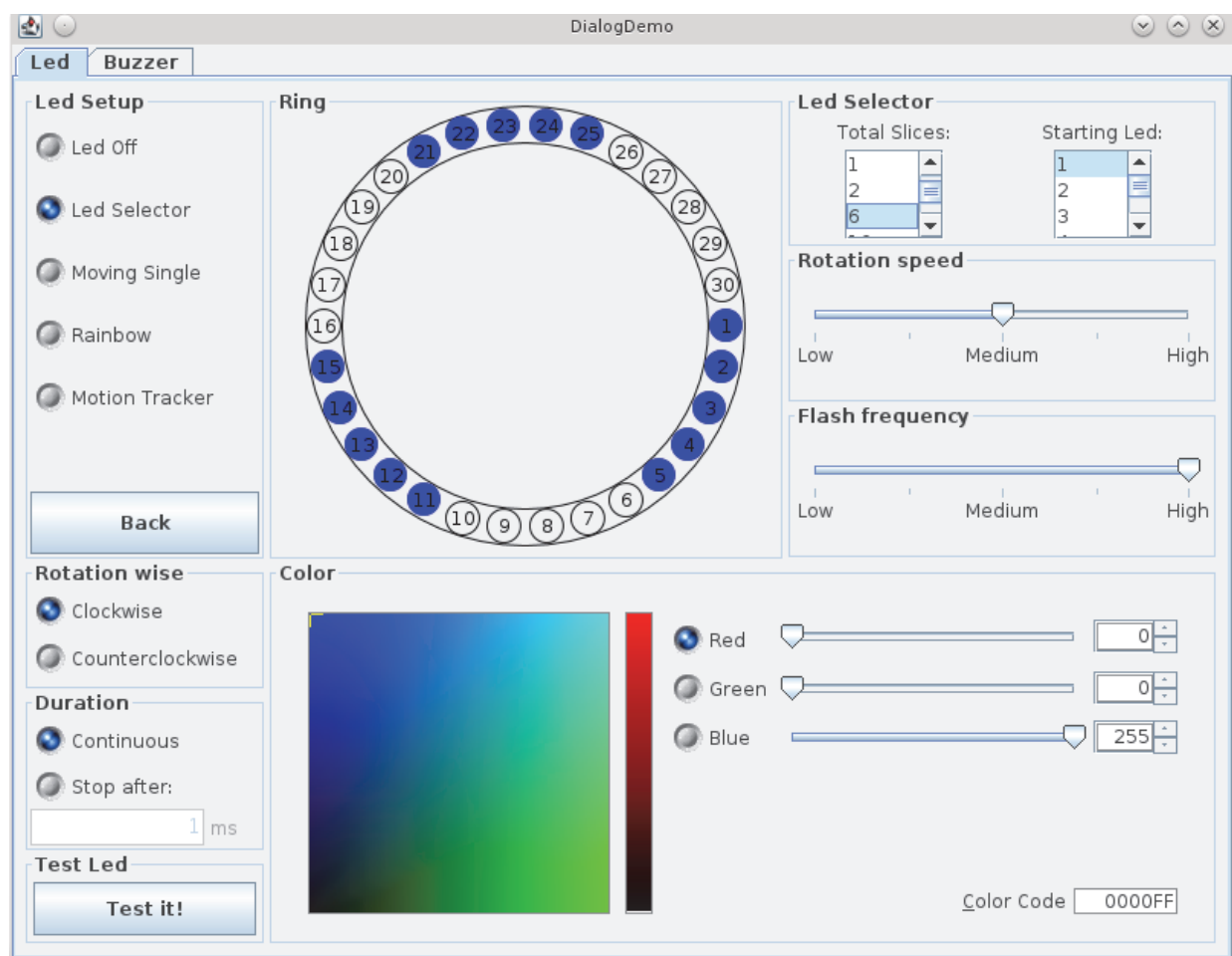
In the right part it's possible to choose the flash frequency, speed of the rotation and the trail duration of the leds.

In the ring section it's possible to choose manually which leds has to activate or not.

In the lower section there is the color choose palette.

Finally in the lower left section it's possible to change the rotation wise and the duration of the lights, which can be turned off after a defined time.

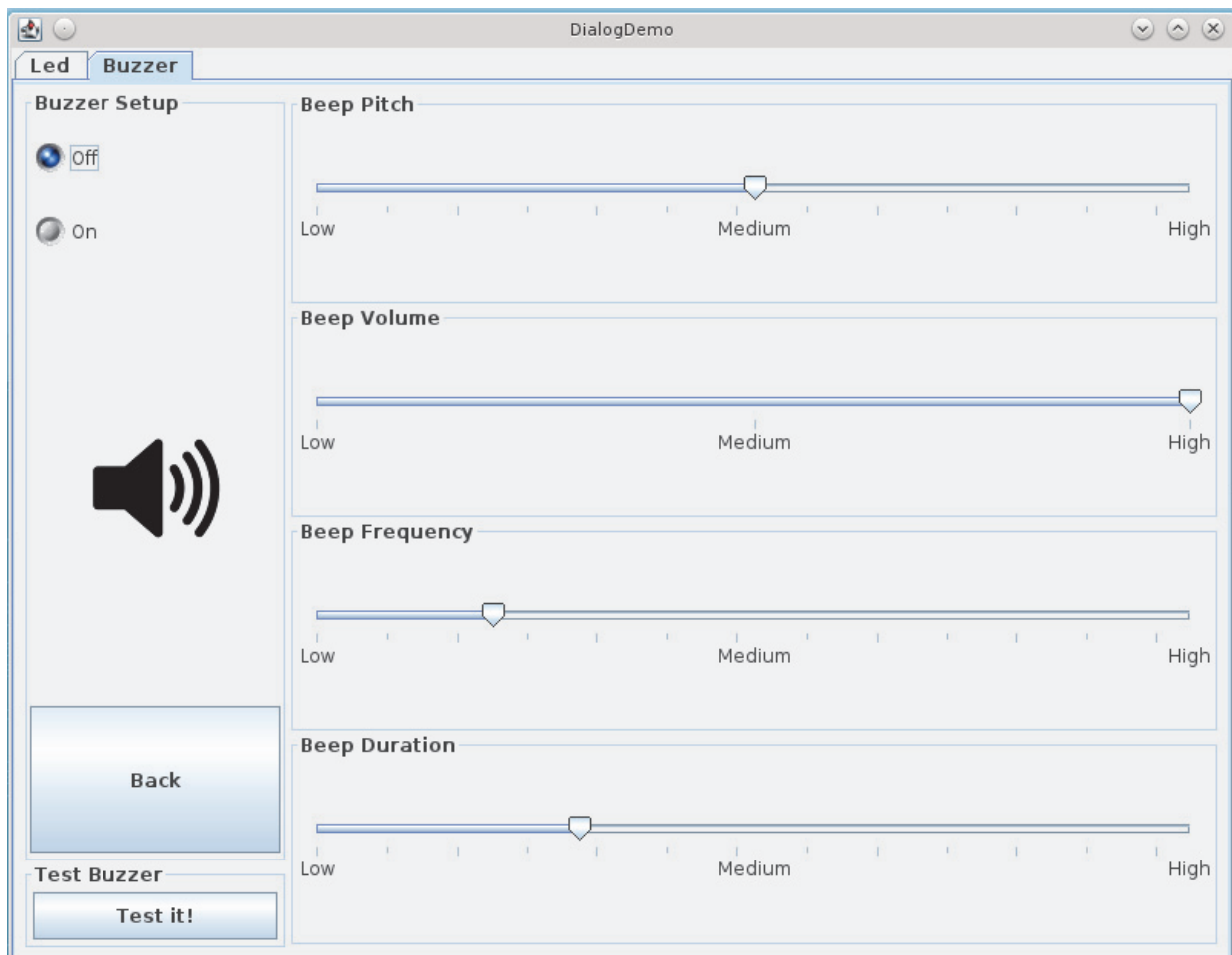
The user can test the settings before clicking "back" to return to the programming interface.



Led settings

YOUring Program Instructions

In the buzzer tab it's possible to activate a sound from the internal buzzer of the YOUring, by the selection of pitch, volume, frequency and duration.



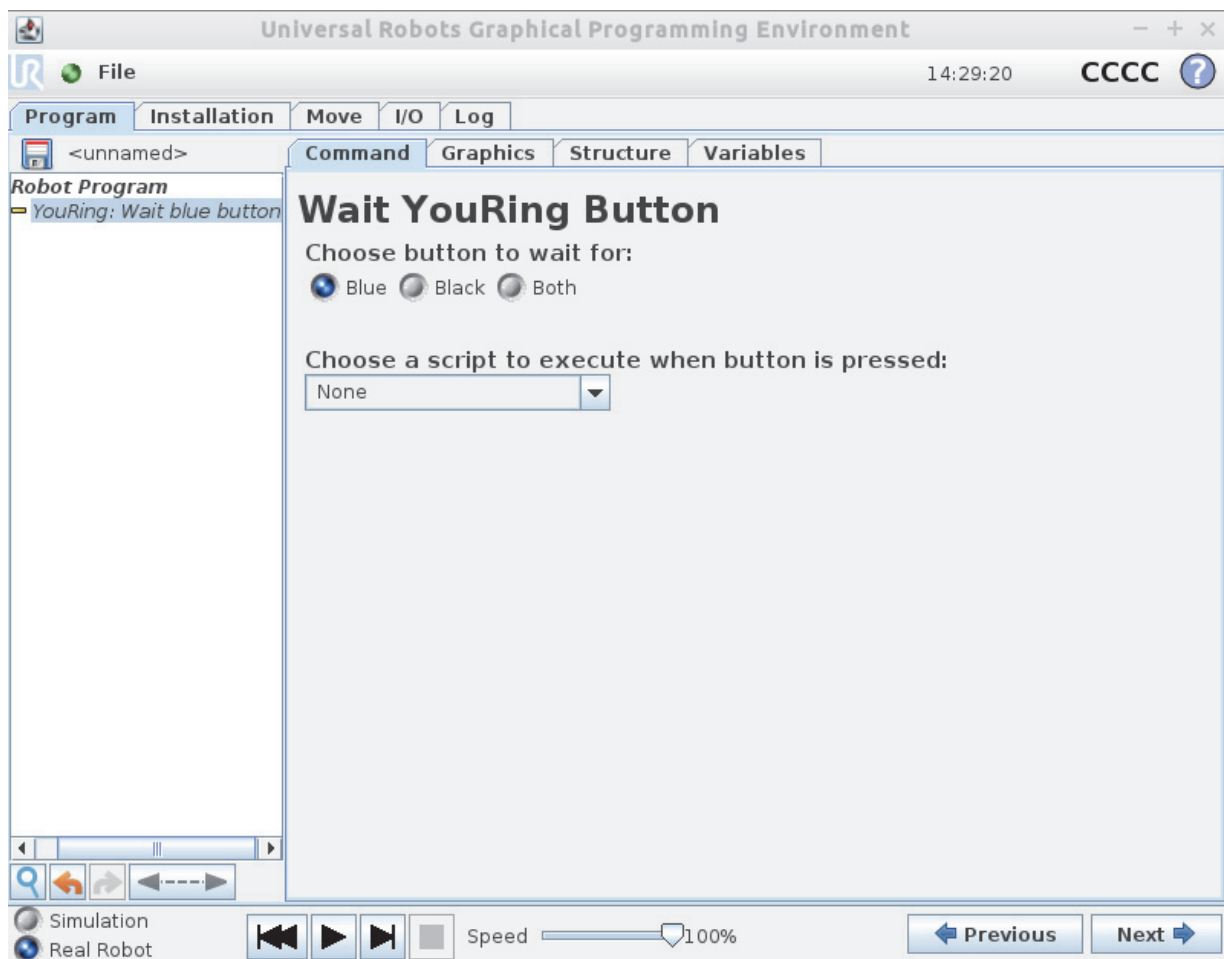
Buzzer settings

YOuring Program Instructions

Wait YOuring Button instruction

With the Wait YOuring button it's possible to pause the execution of the program until the user presses the blue, black or both the buttons on the YOuring.

In the select menu it's possible to choose a script to execute while the program is running and when one or both the buttons are pressed.

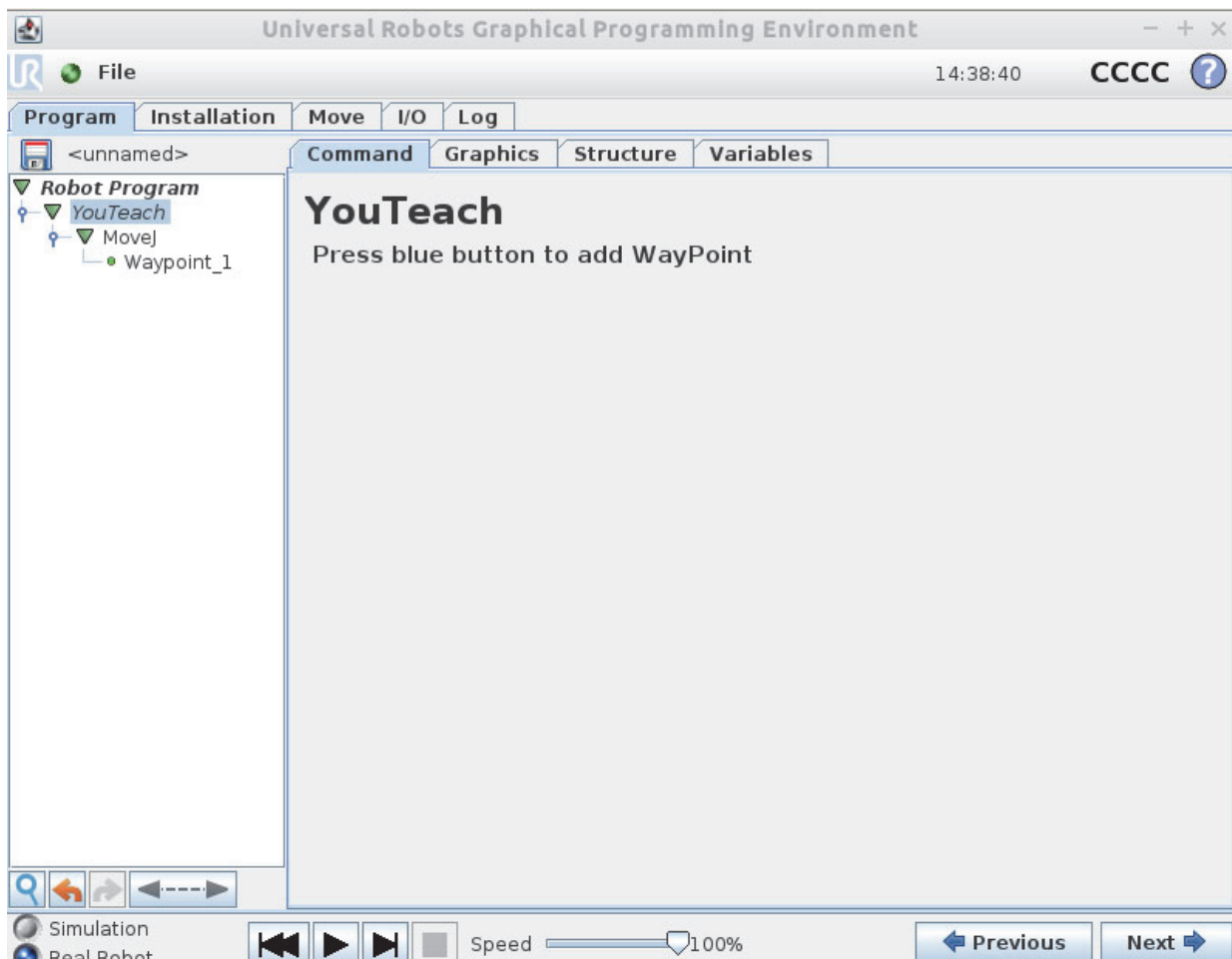


Command view of the Wait YOuring Button instruction

YOUring Program Instructions

YOUteach

The YOUteach feature allows the user to save with the blue button a point taken in freedrive mode (black button); it only needs a single press of the blue button to save the point: the device emits a beep and a single flash green light.



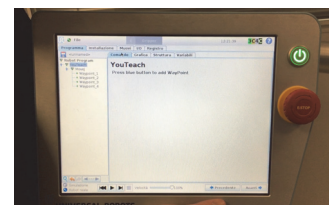
The YOUteach feature works only with the 'command' tab active and the YOUteach instruction selected in the program tree.



Enable the freedrive mode by clicking the black button



Save the current point by clicking the blue button



At every click the point is saved on the fly

F.A.Q.

- ✓ With two YOuring and two USB bluetooth keys, it's important to pair one YOuring at a time, in order to be sure to pair the correct device with its USB key (just in case of unpair-pair procedure).
- ✓ Once two couple of YOuring bluetooth USB key are paired separately, it's possible to use them independently: every key searches its YOuring.
- ✓ Unpair the YOuring and the Bluetooth key by pressing the 'Unpair Device' button using the default password 'alumotion'.
You can pair the YOuring and the Bluetooth key by pressing the two buttons (blue and black) on the YOuring to start the automatic procedure of pairing
- ✓ The second connector on the YOuring is a pass-through connector. It gives power depending on the actual power consumption of the YOuring; on the peak (see the specifications) are available 200 mA (600 mA of UR connector - 400 mA of the YOuring).
- ✓ The YOurteach feature requires at least a > 3.5 Polyscope software version.
- ✓ For any further information, please contact: YOuring-support@alumotion.eu

WARNING

Do not open or deassemble the YOuring!

Please be aware that in case of opening or deassembling of the device, the YOuring will be out of warranty and Alumotion reserves to charge the entire cost of the YOuring.

START GUIDE

YOUring

Smart Light Tool



alumotion

 UNIVERSAL ROBOTS
Preferred Distributor

For any further information, please visit
tools.alumotion.eu