START GUIDE

YOUring
Smart Light Tool

CERTIFIED +
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What's in the box

Nr. **1** YouRing

Nr. **1** Connecting tool cable

Nr. **1** USB bluetooth key

Nr. **1** USB Alumotion 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

SPEC

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 efficacy 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.

YOUring
Smart Light Tool

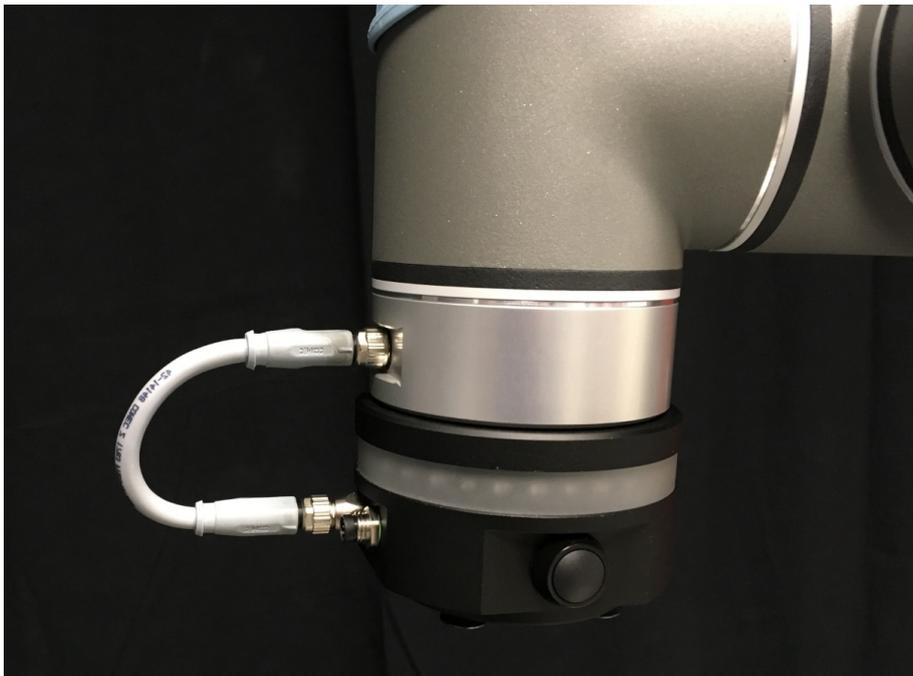CERTIFIED +
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Instructions

1. Physical mounting of the YouRing on the tool flange

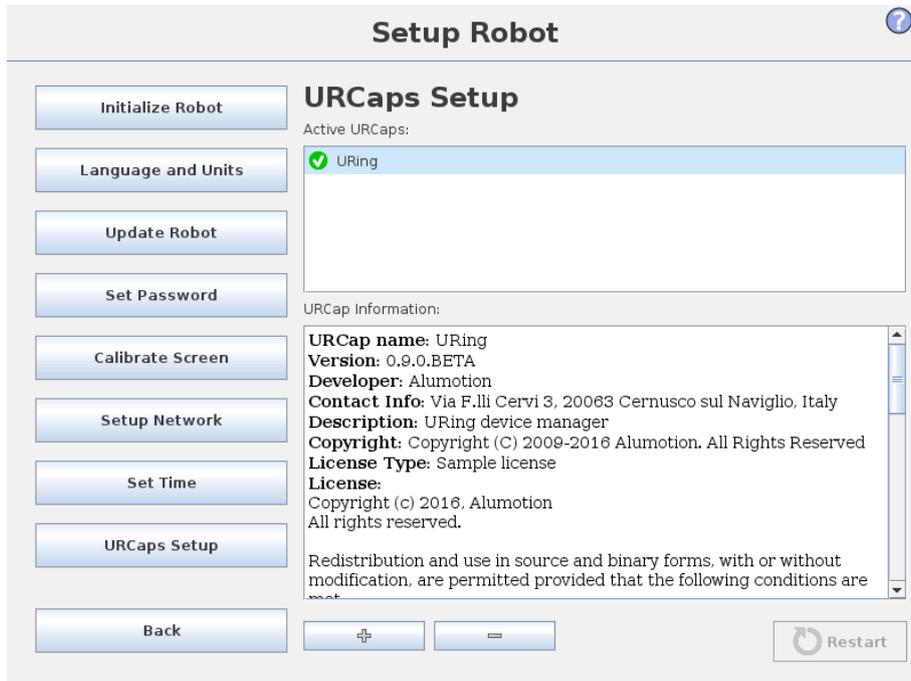2. Connect the cable between the YouRing and the tool flange

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)
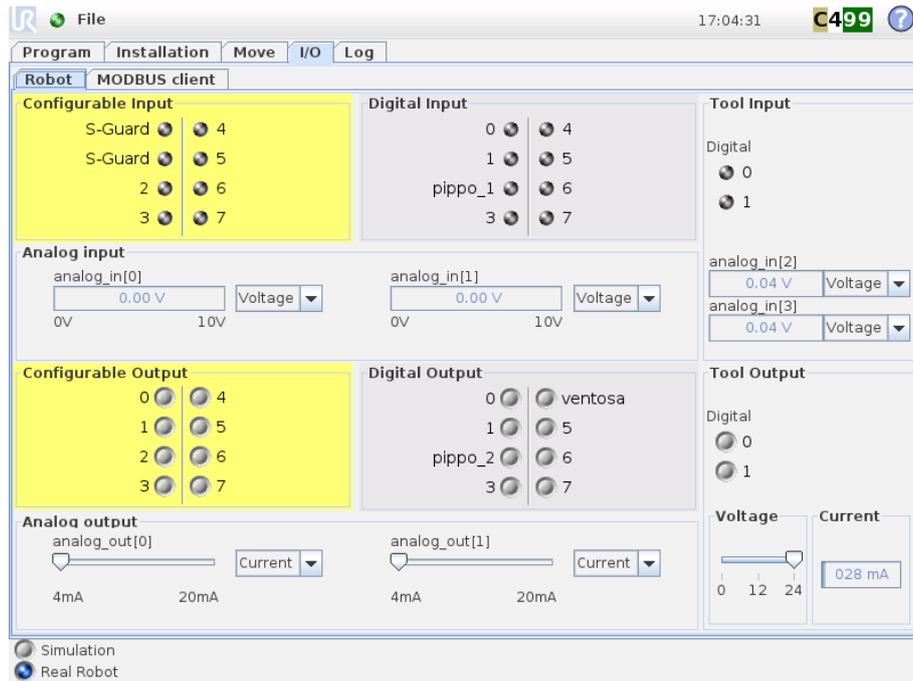

URcap installation

4. Insert the USB bluetooth key in the control box
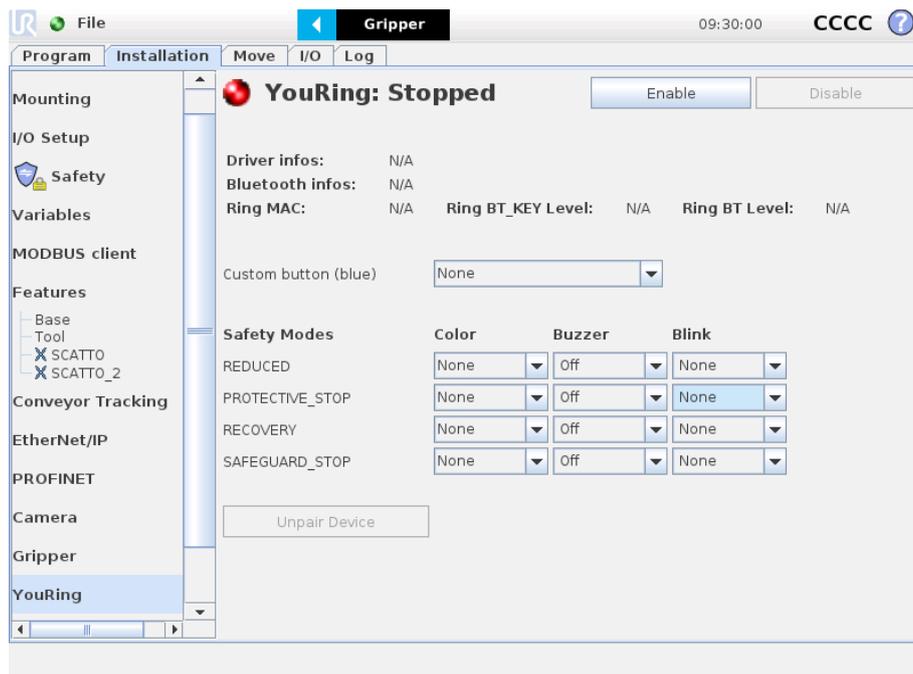The key must NOT have been previously paired

USB Bluetooth Key connected

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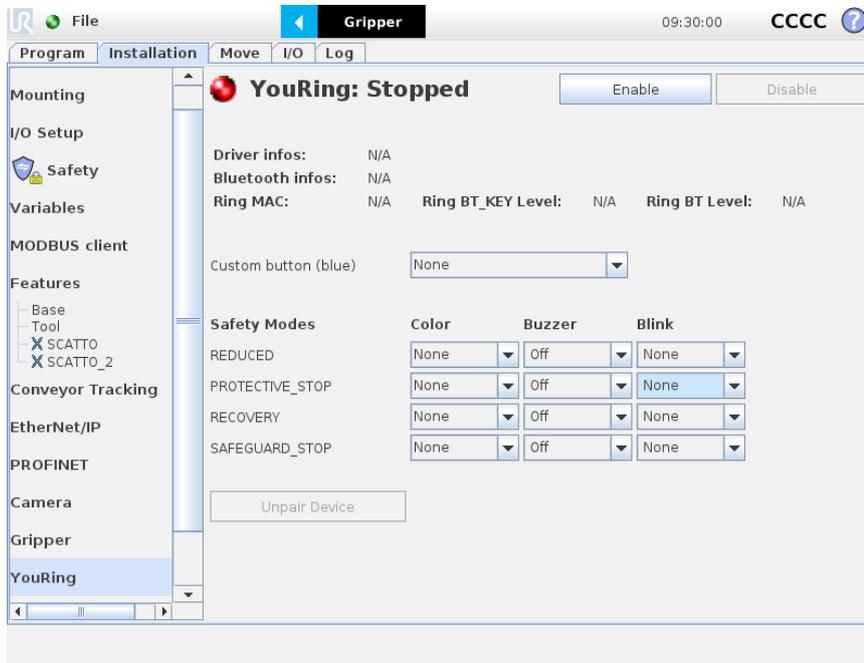

I/O check (tool output)

6. The YouRing must be paired with the USB key inserted in the UR control box:
press both the buttons (blue and black) on the YouRing to start the automatic procedure of pairing
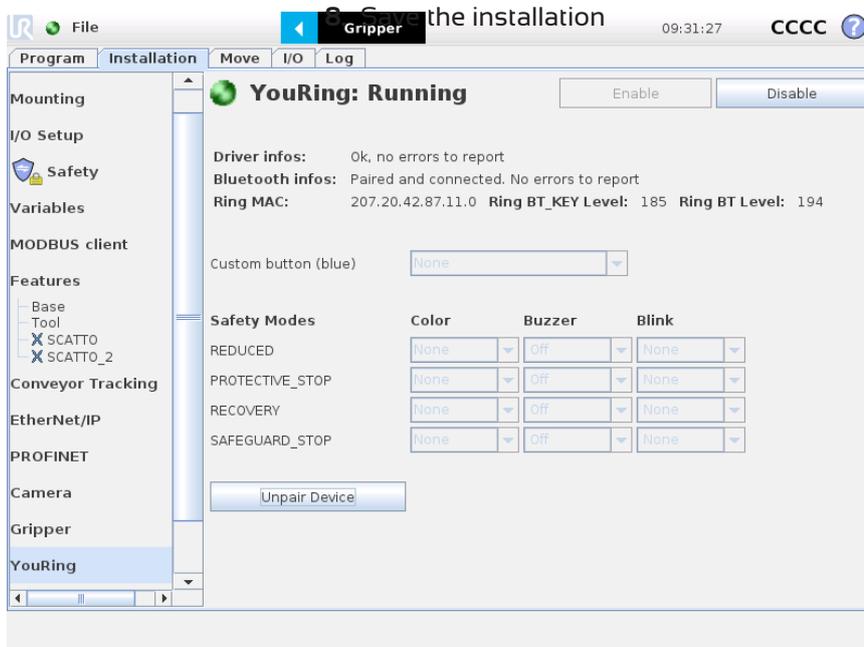

Pairing procedure

Instructions

7. Click enable in the YouRing section

Installation of the YouRing

8. 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.
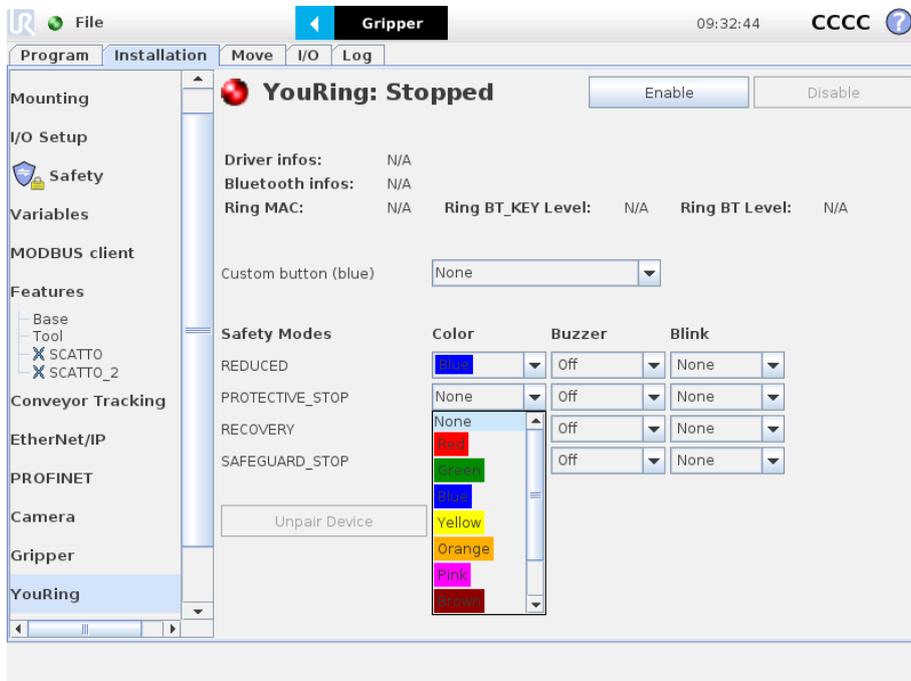
Configuration

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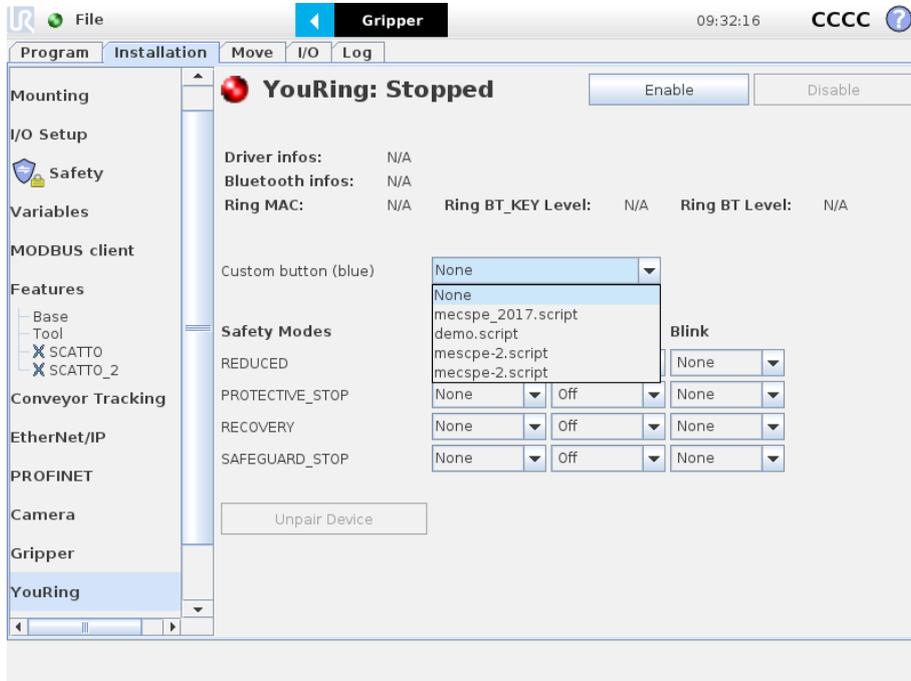
   Attention: this functionality is available with the robot in stop program, not in running program.

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.
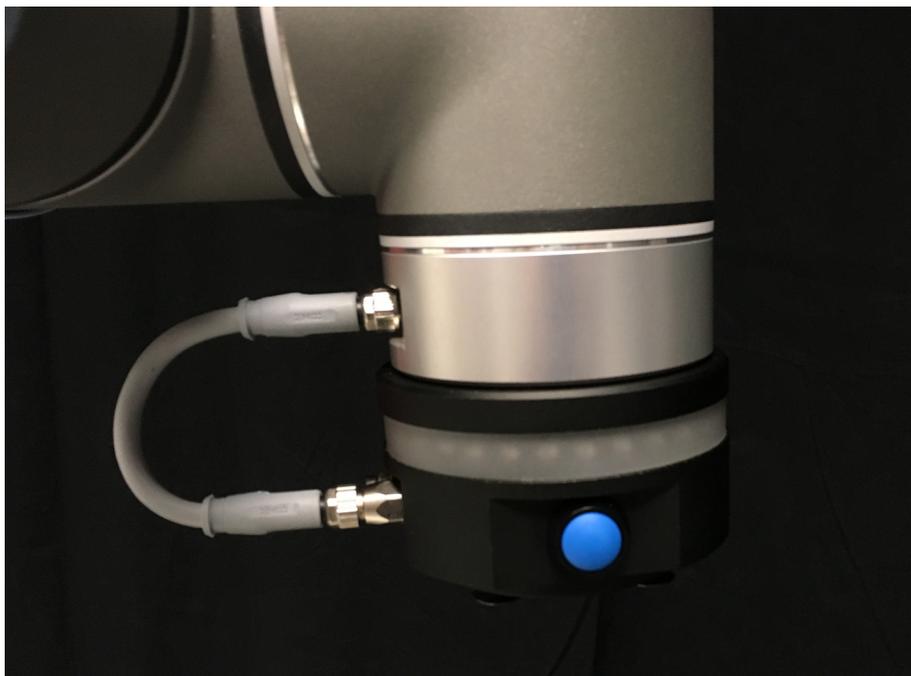

Configuration of the custom button and safety modes settings

Configuration

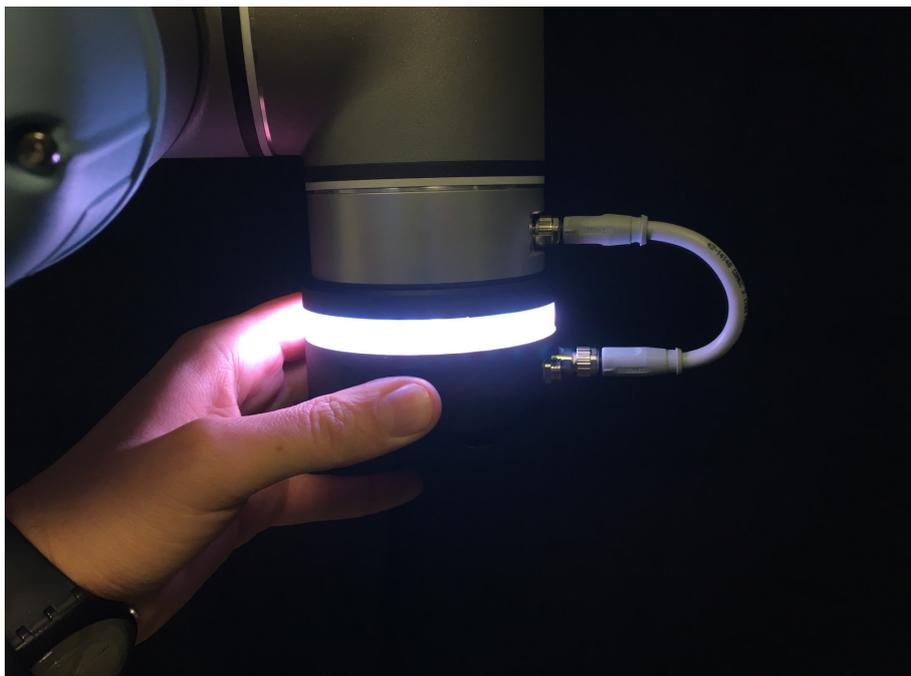Setup if the user scripts for the custom button

View of the custom button

Configuration

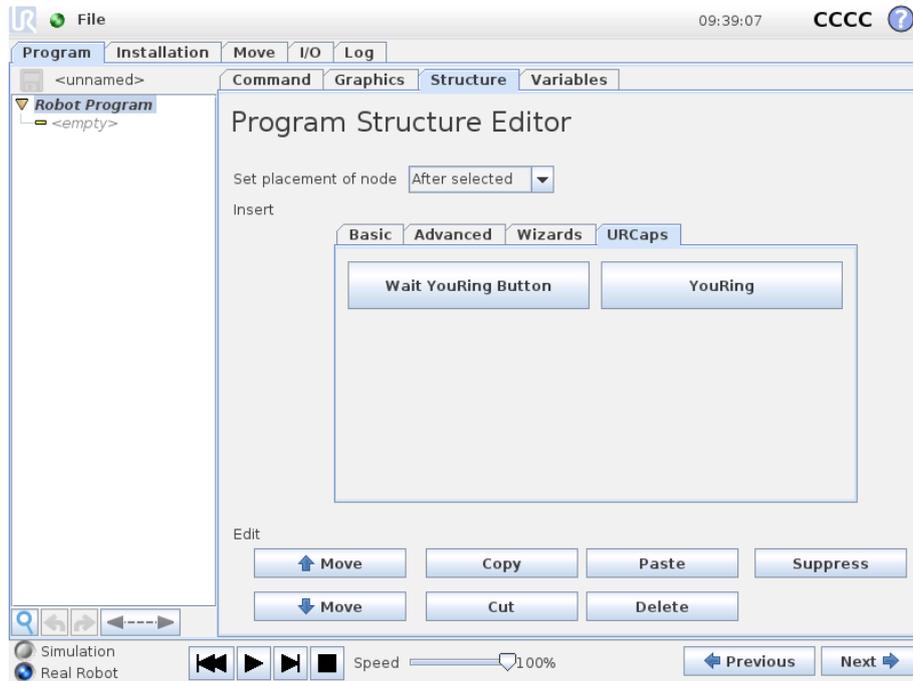The black button corresponds to the YouRing freedrive
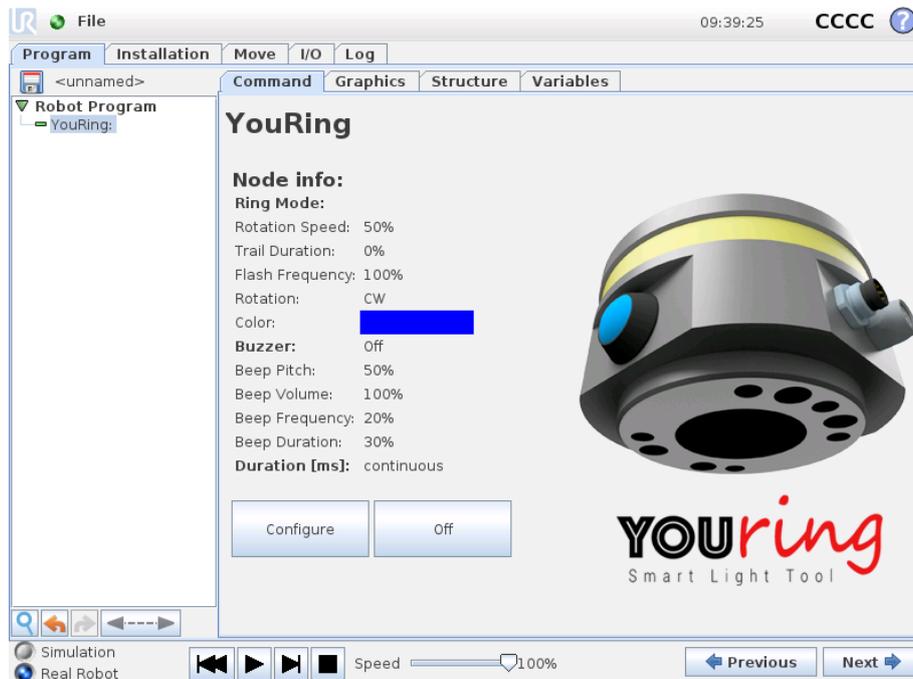

View of the freedrive button

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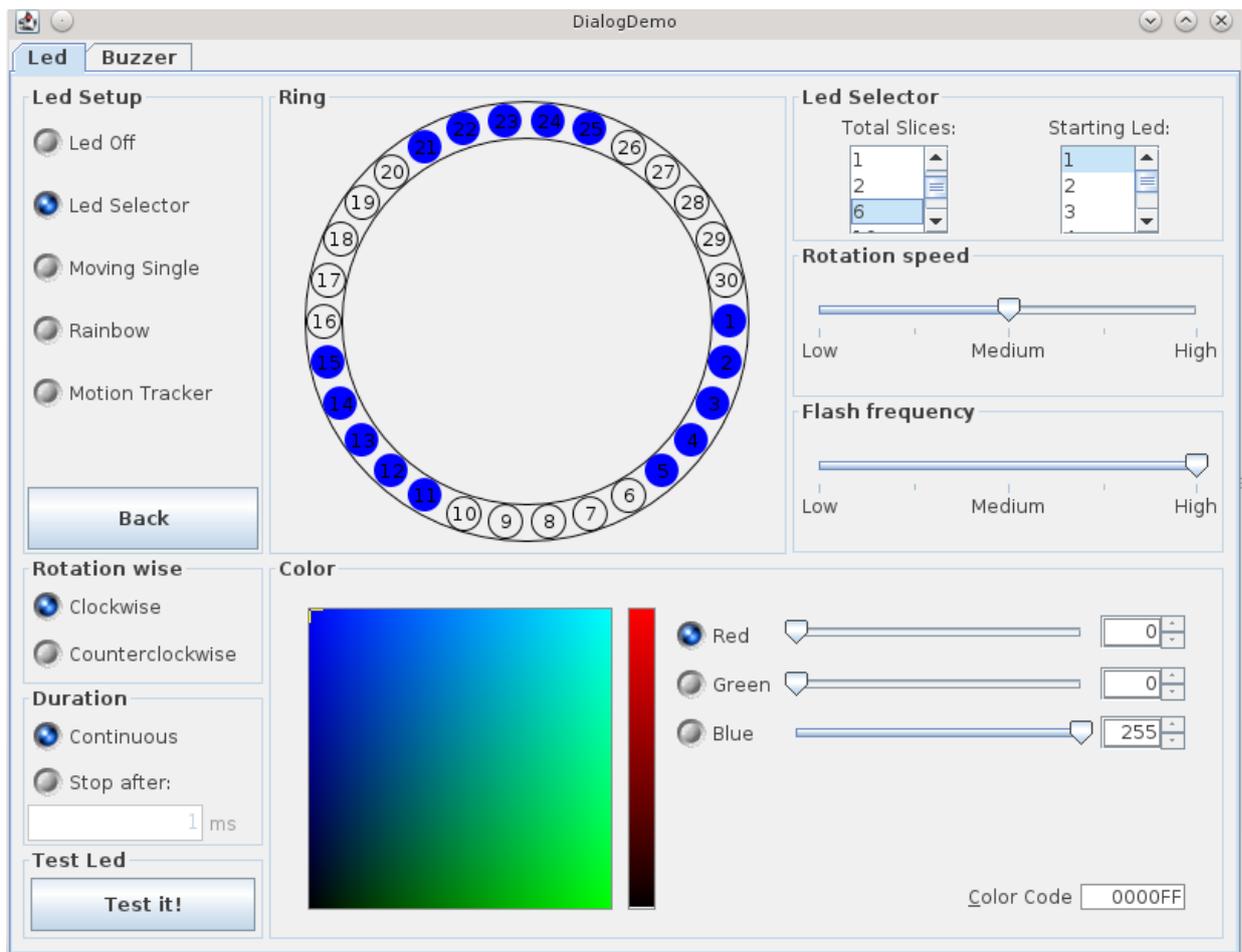
In the right part it's possible to choose the flash frequency, speed of the rotation and the trail duration of the leds.

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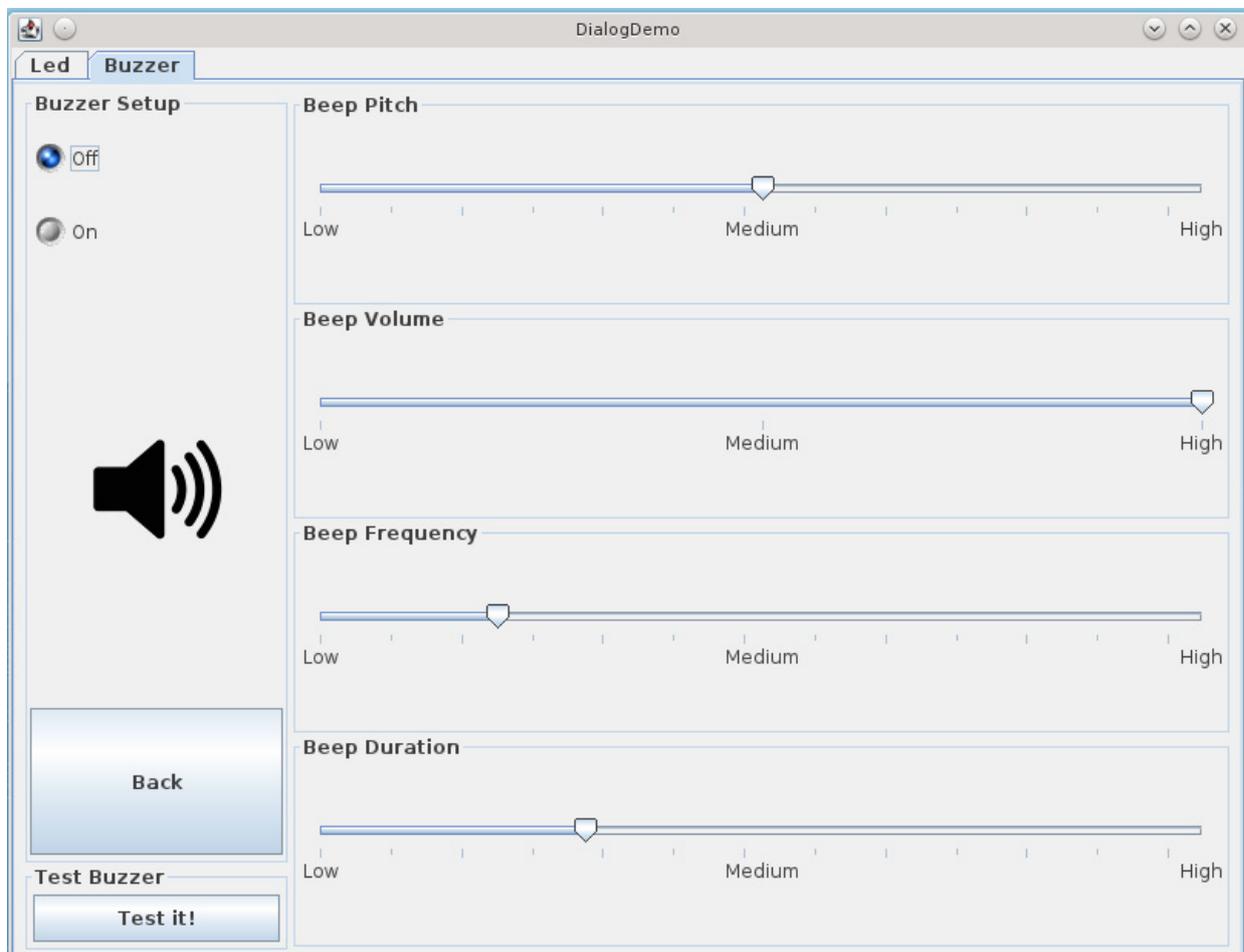
The user can test the settings before clicking "back" to return to the programming interface.

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.
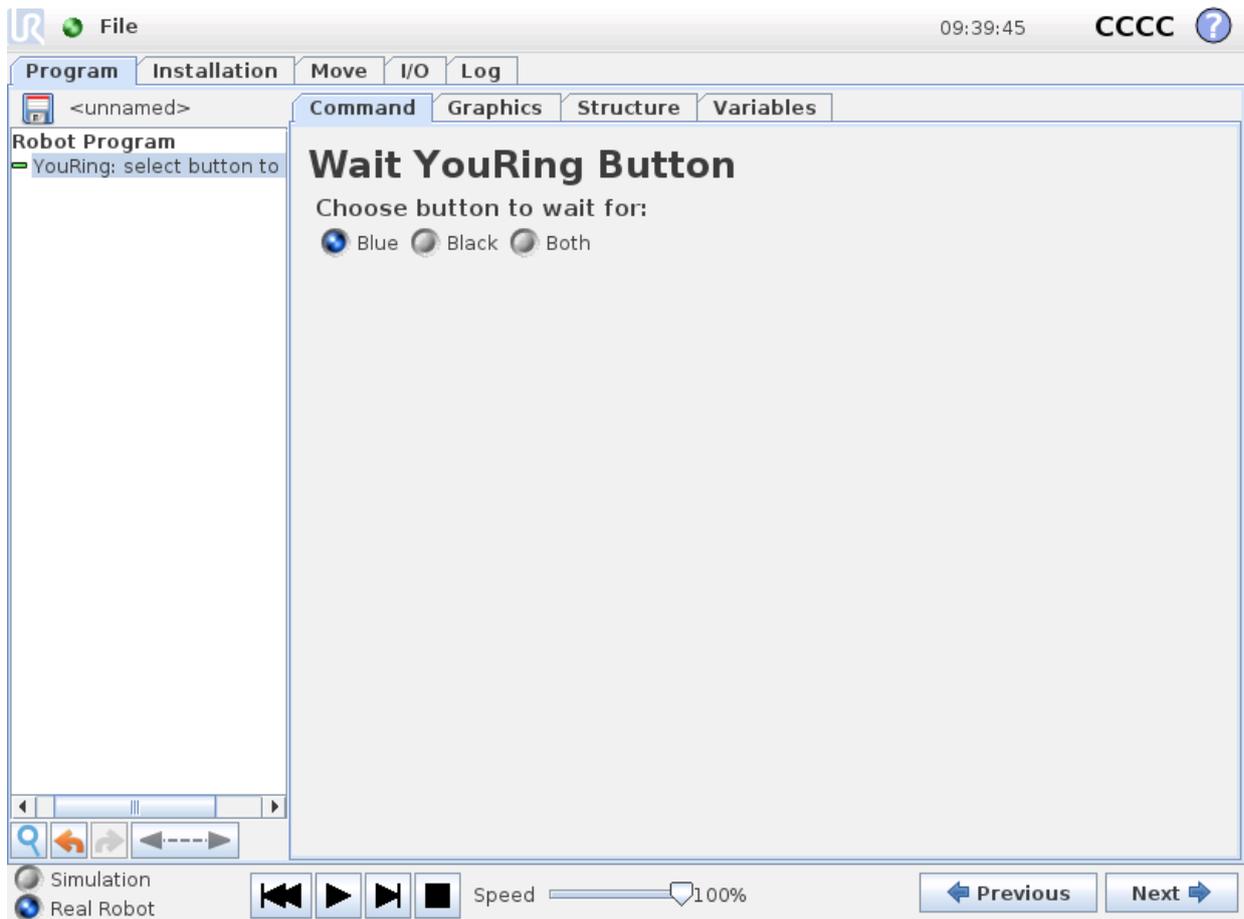

Buzzer settings

YouRing Program Instructions

Wait YouRing Button instruction

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

Command view of the Wait YouRing Button instruction

F.A.Q.

✔ With two YouRing and two USB bluetooth key, it's important to pair one YouRing at a time, in order to be sure to pair the correct device with its USB key.

✔ Once two couple of YouRing bluetooth USB key are paired separately, it's possibile to use them independently: every key searches its YouRing.

✔ It's possible to unpair a couple of YouRing - USB bluetooth key by clicking the unpair button in the Installation section, then the key is again available to be paired with a new YouRing.

✔ The second connector on the YouRing is a pass-through connector, which 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).

✔ For any further information, please contact: **youring-support@alumotion.eu**

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