NIRYO
HUMAN · MOTION · ROBOT

Ned²

SIX-AXIS
OPEN-SOURCE
COBOT

NIRYO

EDUCATION · RESEARCH · INDUSTRY 4.0

A COMPLETE
ECOSYSTEM

EXPERIMENT

Thanks to the Vision Set:

- Set your own workspace thanks to the landmarks and the calibration tip

- Develop your skills **in Artificial Intelligence, Image Processing and Machine Learning**

- Improve the **prototyping of your production lines**

- **Optimize your Industry 4.0 oriented processes**

NIRYO

LEARN

Ned2, the **open-source collaborative robot** for the **learning** and the **reproduction of advanced Industry 4.0 oriented processes**:

- **Six-axis cobot**
- **Aluminum structure**
- **Stepper equipped with the Silent Stepper technology**
- **Based on Ubuntu 18.04**
- **ROS Melodic**
- **Raspberry PI 4**

ARM V8
1.5 GHz

4Gb RAM
LPDDR4

USB 3.0
up to 5 Gb/s

Wi-Fi 5
802.11 g/g/n/ac

Easier to use than ever thanks to its **improved Human-Machine Interface**:

- **LED Ring**
- **Speakers**
- **Control panel**

PROTOTYPE

Prototype production lines inspired by the Industry 4.0 thanks to our Bundle Conveyor Belt (v2), composed of:

- A Conveyor Belt
- 6 pawns of different shapes and colors
- A slope
- A end-stopper
- An Infrared sensor

Its metallic structure has been rethought in order to allow the users to focus on their learning.

C E

OUR
ACCESSORIES

ADAPTIVE
GRIPPER

Ideal to grasp non-standard objects.

LARGE
GRIPPER

Ideal to grasp large objects or smaller ones, at a bigger distance.

VACUUM
PUMP

Allows to grasp objects with a plain and non-porous surface

ELECTRO-
MAGNET

Allows to easily catch one or several metallic pieces such as screws.

ONLINE
DOCUMENTATION

Get a **free access to documented ressources** on our website **docs.niryo.com** in order to apprehend, in the best way, your robot and its use.

- **Complete documentation**
- **Tutorials**
- **Applications examples...**

This provides you therefore with complete ressources to allow you to deepen your learning of **robotics**, the **different programming languages** (Blockly, Python, ROS, C++), **simulation**, **image processing**, and **much more**.

Teacher?

Offer your students the opportunity to **learn at their own pace**, by **exploring the different options at their disposal.**

LANGUAGES & PROTOCOLS

ROS

OS designed for **robotics**, it allows you to use **standardized functions**. with different languages such as **Python** and **C++**.

PYTHON

Multi-plateforms, **powerful** and **versatile** programming language.

MATLAB

Allows to analyze the difference between **actual** and **theoretical trajectory curves**.

MODBUS

Communication protocol that is essential in many **industrial** settings.

EASY PROGRAMMING
WITH NIRYO STUDIO

With **Niryo Studio**, our **free desktop software**, discover programming through **Blockly**, a Google library allowing to **control your robot in a visual and intuitive way**.

No programming knowledge required!

Simply drag the block of you choice and drop it inside your workspace.

Assemble several blocks and press the "Play" button to launch your sequence.

WHO
ARE WE?

Founded in 2016, Niryo is a **French start-up** specialized in the making of **cobotics solutions** for **Education**, **Research** and **Industry 4.0**, as well as in the development of **software solutions** designed to **make robotics accessible to everyone**.

Niryo is now a key player of the development of **six-axis**, **collaborative** and **open-source robot arm**, with **2500 robots sold** in more than **50 countries** around the world. The start-up also now employs **more than 30 employees**.

In order to allow its users to **discover the industry of tomorrow** and implement, on a small scale, **their own production lines Industry 4.0 oriented**, Niryo also provides a **Conveyor Belt** as well as a **Vision Set** that allows **the use of advanced functions** such as **Artificial Intelligence**, **Image Processing** and **Machine Learning**.

CONTACT
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