



MINI-LAB ROBOTICS EDUCATIONAL KIT

The best trade-off between robustness and economic competitiveness.

The Mini-Lab is suitable for advanced research in robotics whether in the low-level programming or in higher-level indoor applications like path planning, tracking, surveillance, monitoring... It is the adequate test-bed for researchers to implement different algorithms using data from numerous sensors.



ROBOTS FOR CHANGING THE WORLD...

**SOLID ALUMINUM
CHASSIS** POWERED BY HIGH
TORQUE MOTORS

WI-FI CONNECTIVITY

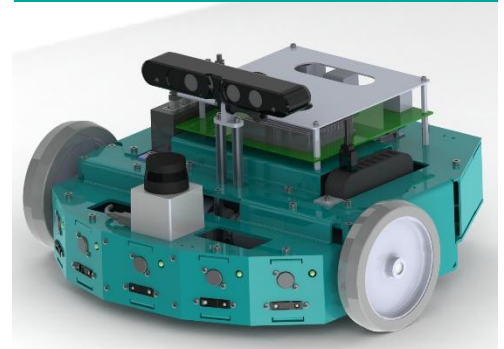
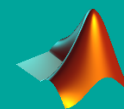
HARDWARE ABSTRACTION WITH
ROS ARCHITECTURE

 **ROS.org**

LOW LEVEL **SENSORS**
INTERFACE WITH **ARDUINO**

COMPLETE **WIKI** PAGES AND
WORKSHOPS

LABS CAN BE SIMULATED ON BOTH
MATLAB AND **GAZEBO**



TECHNICAL SPECIFICATIONS

Mechanical

Dimensions (W x L x H) 409x364x231

Weight 11.5 Kg

Load Capacity 3 Kg

Speed 1.5 m/s

Max slope Angle 10°

Power

Battery 12 V

Autonomy 4h

On-board voltage 5V / 12V

Electronics

Processor

Sensor interface

Depth Camera

Sensors

Atom N2800

Arduino compatible

Asus Xtion Live Pro

(x5) Ultrasonic sensor

(x5) Infra-Red sensors

Communication

Wireless

Extension with

IEEE 802.11b/g/n -

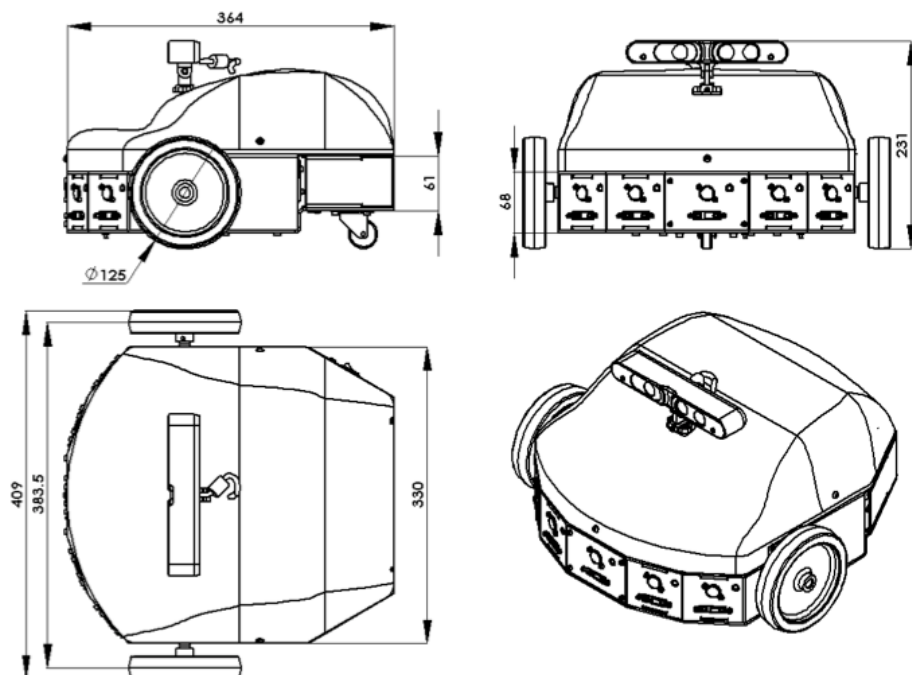
USB, Ethernet

OPTIONS

- Hokuyo Laser



- Docking Station



ENOVA ROBOTICS

Pépinière d'entreprise
Technopôle de Sousse-BP 24
4059 Sousse Corniche
Tunisie

Tel : (+216) 73 823 023

Fax : (+216) 73 823 022

www.enovarobotics.com

contact@enovarobotics.com



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