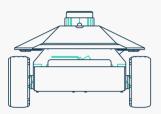
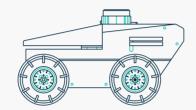


Discover our educational robot. Compy®

Compy[®] is the ideal companion for students to quickly and easily learn about **autonomous mobile robots** and develop projects in vision, positioning, and artificial intelligence.

Our personalized programming and configuration interface system provides quick access to all functions, while the robot allows for lower-level programming and control through ROS.





At BINARIAL, we provide technological tools that contribute to the development of digital skills (DC) and mathematical skills in science, technology, and engineering (STEM).

Measurements and specifications

HARDWARE / SOFTWARE ····

Comunication	Ethernet, USB 3.0, RS232
Sensoring	PC Onboard with computional power GPU*, RPLidar S2L, Giroscope, IMU, Intel Realsense.
	*Up to 40 TOPS able to run Al applications.
Encoders	1 x each wheel
Web control	Entel-webUI v.2.5
Feedback	Encoders / IMU
Control modes	Cinematic control Independet wheel speed
Lidar	RPLidar S2L
Depth camera	Intel Realsense D435

Applications and their usage



SURFACE MAPPING

Our robot allows for manual navigation through a workspace / movement area, recording and generating a map of the facility. This map can be used for subsequent route programming or simply to have a graphical representation of the facility or office layout.



AUTONOMOUS NAVIGATION

Thanks to its LIDAR scanner, the robot can autonomously navigate through programmed routes, avoiding obstacles encountered along the way. With its navigation technology, it avoids any obstacle in its path by recalculating a new route in real-time.



EVENT MANAGEMENT

The Compy® mobile robot offers the ability to generate different types of events, either by pressing a button or reading a presence sensor. This allows us to create a communication interface with the robot in a simple way, giving us a general idea of how this robot would work in a final application in the industry.

FEATURES ····

Dimensions	441 x 380 x 254 mm
Weight	6 kg
Load Capacity	25 Kg
Maximum Speed	1,8 m/s
Obstacle Detection	50 cm
Operational Time	5-8 h (máx. load) 12-14 h (mín. load)
Power	2000 W peak 800 W continuous
Battery	12 V 9000 mAh