

NEW ROBOT for Higher Education and Research

Solar 4WD Connected Professional Autonomous Robot Mower



Study robotics from the real world!

VITIROVER for Higher Education and Research

Real applications adapted to cutting-edge and trendy technical topics for students, based upon an industrial well appreciated robot.

Teachers, Students and researchers can work on multiple subjects based upon the Vitirover for Higher Education and Research: from IA to loT through Solar Energy or Fog Computing and more.





POSSIBLE SUBJECTS TO STUDY

- IA & Machine Learning
- Programming (from No Code through C++)
- Connectivity, IoT, Fog Computing
- Low Consumption System
- Sensors & Binocular RGB Cameras
- Web Dashboard & SAAS
- Fully loaded Mechatronic
- Renewable Energy / Solar Panel
- Rechargeable and Fixable Batteries
- Best Navigation Management
- Autonomous 4WD Vehicle
- Geolocation (Optimal LIDAR Mapping)
- Rover & Space or Military Applications
- Space Servicing by robots fleets

REAL APPLICATIONS IN REAL MARKETS



ENERGY









TRANSPORT









VINEYARDS









ORCHARDS







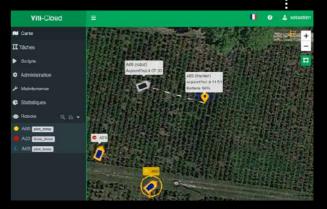
OUR COLLABORATIVE PLATFORM



Universities are invited to join the Vitirover community around a collaborative platform that gathering the full teachers, students, searchers and professionals community to go deeper into the development of Vitirover features and R&D topics.

Among other things, Vitirover is a very user friendly and fun motivating tool for practical use and learning of programming languages such as C, C++, Python or even simply Scratch Language. The robot allows different navigation strategies to be tested and refined by the use of AI since the robot records plenty of data from its movements. The robot is provided with a basic content that can be developed by the students according to objectives set by the teacher or even according to actual challenges set by the Vitirover company.

LEARNING BY DOING



HISTORY

Coming from
Vineyards, one of the
toughest agricultural
environment to
maintain because of
the density of
obstacles, VITIROVER
robots have adapted
to many other
environments.





ECO-FRIENDLY



ESG LEADER



COST SAVING



SOLAR ENERGY



AUTONOMOUS

INTERNATIONAL RECOGNITION





























SPECIFICATIONS	VR OUTDOOR	VR UNIVERSITY
DIMENSIONS [cm] (LxWxH)	75 cm x 40 cm x 30 cm	75 cm x 40 cm x 30 cm
OIMENSIONS [in] (L x W x H)	29"1/2 x 15"3/4 x 11"3/4	29"1/2 x 15"3/4 x 11"3/4
WEIGHT (kg / lbs)	27 kg - 59 lbs	24 kg - 53 lbs
CONSUMPTION	1 W/kg - 0.45 W/lb	1 W/kg - 0.45 W/lb
AUTONOMOUS MOVEMENT	YES	YES
MAX SPEED	900 m/h - 55 MPH	900 m/h - 55 MPH
WHEEL DRIVE	4 WD	4 WD
ORIVE MOTORS	4 (1 per axle)	4 (1 per axle)
O SOUND LEVEL (dBA)	40 dBA	40 dBA
MAX SLOPE (based upon soil)	15 to 20%	15 to 20%
WEB BASED DASHBOARD	YES	YES
CUTTING BLOCK	2 Rotating Grinders	OPTION
OUTTING HEIGHT (cm / in)	5 to 10 cm - 2" to 4"	
OUTTING WIDTH (cm / in)	30 cm - 11"3/4	
PRECISION TO OBSTACLE	< 1cm - < 1/2"	
FRONT CAMERAS (RGB)	2	2
INERTIAL SENSOR	IMU	IMU
POWER SUPPLY	Solar Panel	Solar Panel
CHARGING DOCK STATION	Solar / Direct	OPTION
GEOLOCATION (GNSS)	GPS, GLONASS BEIDOU, GALILEO	GPS, GLONASS BEIDOU, GALILEO
GEOLOCATION (RTK)	YES (License included)	YES (License not included)
SECURITY GEOLOCATION	Security Battery	Security Battery
ANTI-THEFT / SAFETY SHUT-OFF	Remote / Lift / Auto	Remote / Lift / Auto
SAFETY FEATURE	Lift Auto Shut Off	Lift Auto Shut Off
EMISSIONS (CO2/Chemicals)	0	0
SOFT DESIGN KIT		Protobuf (JSON) via USB
ROBOT OPERATING SYSTEM		ROS2 Compatible
OPTIONAL SENSORS		LIDAR / Ultrasound



CONTACT



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