AGILE·X Robotics

Génération ROBOTS

ROS
ROS2

python™

GAZEBO

C++

LIMO ROS2

ROS2 EDUCATIONAL MOBILE ROBOT PLATFORM

Introduction

LIMO ROS2 robot features an Intel NCU i7 processor running ROS 2 on Ubuntu 22.04, providing an essential platform for autonomous mobile robot research and education.LIMO ROS2 enables exploring ROS 2's latest capabilities, including prominent open-source frameworks like Navigation2 and MoveIt2. With an extended 2.5 hour battery life, it ensures uninterrupted operation.

Highlight

Advanced Computing Unit

Equipped with the Intel NUC i7, it has extremely powerful computing capabilities, enabling more stable multi-sensor data fusion and SLAM mapping.

Precise Sensors

Optionally equipped with the EAI T-mini Pro LiDAR and Orbbec Dabai depth camera, it supports high-precision mapping and autonomous localization, navigation planning, and dynamic obstacle avoidance.

Double the Battery Life

The battery capacity is increased to 10000mAh, which greatly enhances power and operational stability.

Open Source Support

Supports ROS and Gazebo platforms, compatible with mainstream programming languages like Python and C++. Encourages users to expand or develop robotics applications.

Specifications:

Dimensions	Weight	Payload	Ground Clearance
322 x 220 x 251mm	4.8kg	4kg	24mm

Steering Structure	Screen	IPC	Depth Camera
40N·m	7 inches	Intel NUC	Orbbec Dabai

LiDAR	Battery	Operating Time	Standby Time
EAI T-mini Pro	10Ah 12V	2.5hours	4hours

System	Speed	ROS Version	
Ubuntu 22.04	1m/s	ROS2 Humble	

Control Distance	Control Method		
10m	Mobile App / Command		