

# LIMO ROS2

ROS2 EDUCATIONAL MOBILE ROBOT PLATFORM



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## 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

322 x 220 x 251mm

Weight

4.8kg

Payload

4kg

Ground Clearance

24mm

Steering Structure

40N·m

Screen

7 inches

IPC

Intel NUC

Depth Camera

Orbbec Dabai

LiDAR

EAI T-mini Pro

Battery

10Ah 12V

Operating Time

2.5hours

Standby Time

4hours

System

Ubuntu 22.04

Speed

1m/s

ROS Version

ROS2 Humble

Control Distance

10m

Control Method

Mobile App / Command