
**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.

As an ideal companion for students, researchers, and enthusiasts, LIMO PRO facilitates hands-on learning with cutting-edge robotic technology. Its professional-grade engineering and comprehensive feature set equip users to push boundaries in autonomous systems.

Highlight

- Robust Hardware: Powered by an Intel NCU i7 for high performance in autonomous vehicle applications.
- Simulation and Navigation: LIMO ROS2 excels in mobile robot navigation simulation.
- Smart Motion Planning: It features advanced robotic arm motion planning using Moveit2.

- Long-lasting Power: Enjoy up to 2.5 hours of uninterrupted research and experimentation.

## Tech specifications

| Items | Parameters | Values |
|---|---|---|
| Mechanical | Overall dimension | 322*220*251mm |
| | Wheel base | 200mm |
| | Tread | 175mm |
| | Dead load | 4.8kg |
| | Load | 1kg（Four-wheel differential） |
| | | 4kg（Ackermann mode） |
| | | 4kg（Wheat wheel） |
| | Minimum ground clearance | 24mm |
| Drive type | Hub motor (4x14.4W) | |
| Performance | No-load max. speed | 1m/s |
| | Ackermann minimum turning radius | 0.4m |
| | Work environment | -10~+40℃ |
| | Max. climbing capacity | 40°（under track mode） |
| System | Power interface | DC（5.5x2.1mm) |
| | OS | Ubuntu22.04 |
| | IMU | HI226 |
| | CPU | i7-1135G7@2.40GHz x 8 |
| | GPU | Xe Graphics |
| | Battery | 10Ah 12V |
| | Working time | 2.5H |
| | Stand-by time | 4H |
| | Communication interface | WIFI,Bluetooth |
| Sensor | LIDAR | EAI T-mini Pro |
| | Depth camera | DaBai |

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|---|---|---|
| | IPC | Intel NUC（8G） |
| | USB-HUB | TYPE-C x1，USB2.0 x2 |
| | Front display | 1.54 inch 128x64 white OLED display screen |
| | Rear display | 7 inch touch screen |
| Control | Control mode | Mobile APP，command control |
| | Mobile APP | Bluetooth，maximum distance 10m |