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# O2D R5



All-Wheel Drive Compact Indoor Robot



## O2D R5. Research and Education

Simple to Start

Block Programming

Python SDK

REST API

Agentic AI Integration

Your Short Path to ROS2





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## O2D R5. Indoor Autonomous Delivery

Easy Cargo Mounting

Up to 3 kg Payload

Delivery Scheduling

Automatic Charging

Smart Navigation Approach





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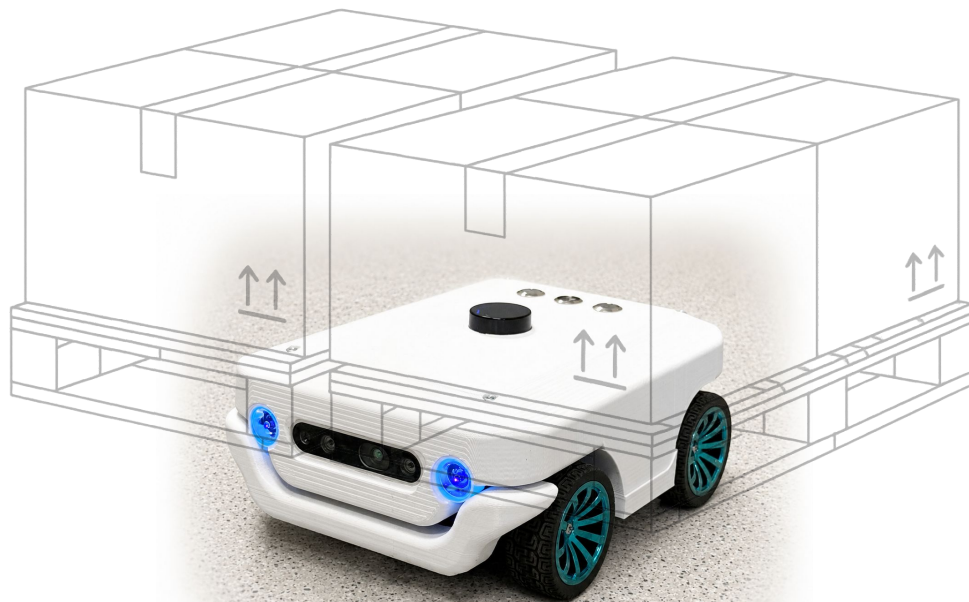
## O2D R5. Warehouse and Logistics Prototyping

Advanced Development Tools

Built-In Dockings, Cargo  
Approach and Pickup Routines

Size, Weight and Inertia  
Simulation Options

Large Maps Support





## O2D R5. Security and Inspection

Agentic AI Event Detection

Real-Time Video Streaming

Remote Teleoperation Capability

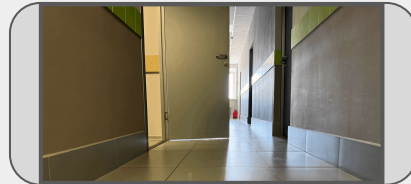
Expandable Payload & Interfaces

Autonomous Inspection Workflows



### O2D Security AI Agent

Here is the image I see from the frontal camera



**⚠️ \*\*ALERT\*\***

**OPEN\_DOOR\_DETECTED:** There is an open door on the right side of the hallway.

**⚠️ \*\*ACTION\*\***

**NOTIFY\_PERSONNEL:** Send alert notification to security personnel immediately



## O2D R5. Advantages

Open Architecture

Simple to Maintain

Unlimited to Upgrade

Designed for Experiments and Innovation

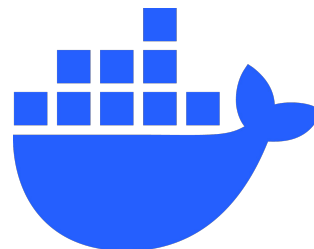
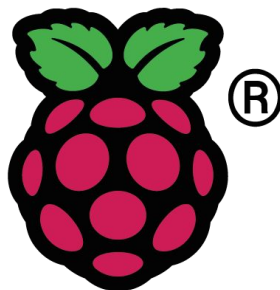
Secure and Predictable



open source  
hardware



open source



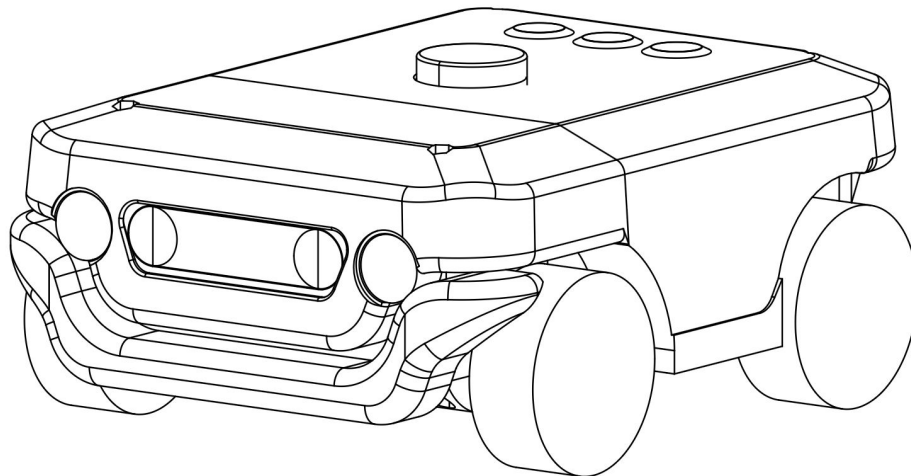
Ubuntu

ROS 2™



## O2D R5. Mechanical Characteristics

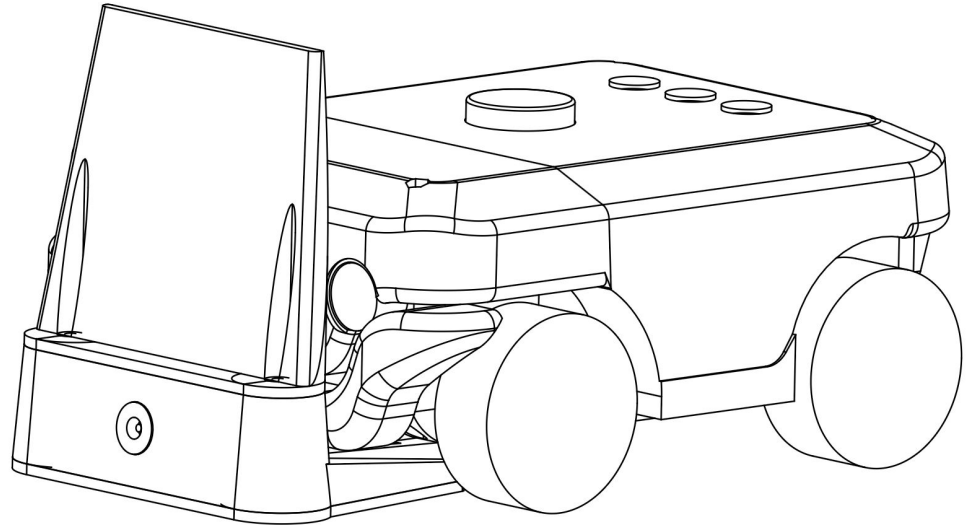
Parameter	Value
Length	250,00 mm
Width	200,00 mm
Height	113,5 mm
Weight	2400 g
Body Material	PET-G
Propulsion Type	wheeled
Layout	All-Wheel Drive
Wheel Diameter	65 mm
Max Linear Speed	0.5 m/s
Max Angular Speed	4.5 rad/s





## O2D R5. Electrical Characteristics

Parameter	Value
ACB Voltage (MAX)	14.8 V
Motor Voltage	12 V
Compute module and peripherals voltage	5 V
Max Current	2.5 A
ACB Capacity	6000 mAh
Charging Current (MAX)	5 A
Autonomous Work Duration	6 h





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## O2D R5. Dimensions

