LIMO
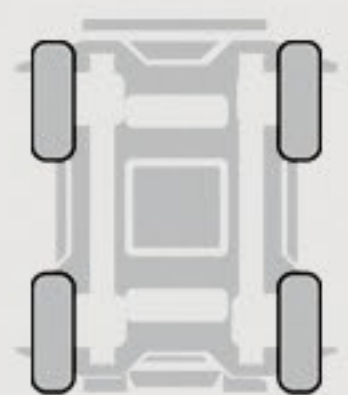## ROS-BASED MULTI-MODAL® MOBILE ROBOT FOR EDUCATION AND RESEARCH

Autonomous Navigation | SLAM&V-SLAM | Obstacle Detection
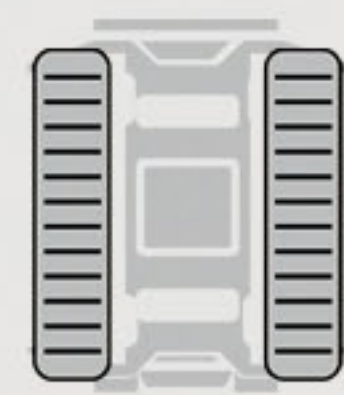
AGILE·X Robotics

:::ROS :::ROS2 GAZEBO

PATENTED FOUR STEERING MODES

Four-wheel differential steering
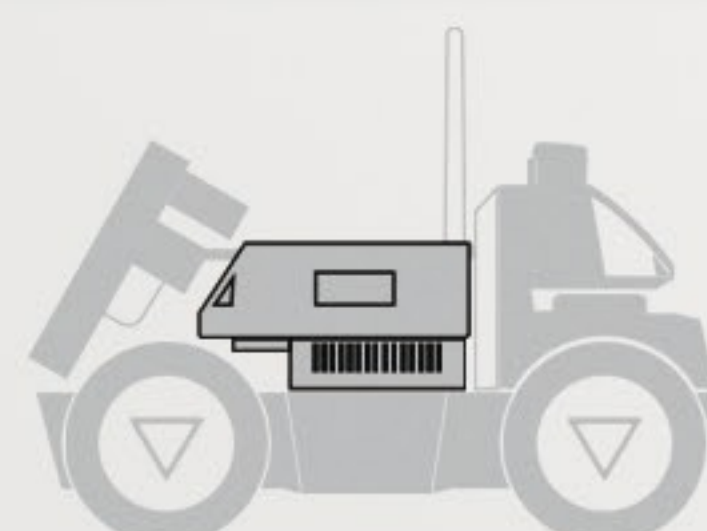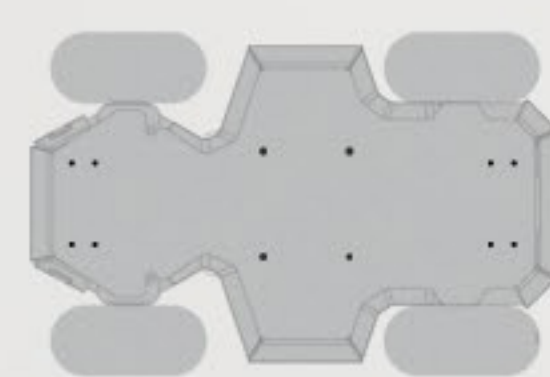
Tracked steering

Omni-directional steering

Ackermann

SCALABLE STRUCTURE FOR DIY NEEDS

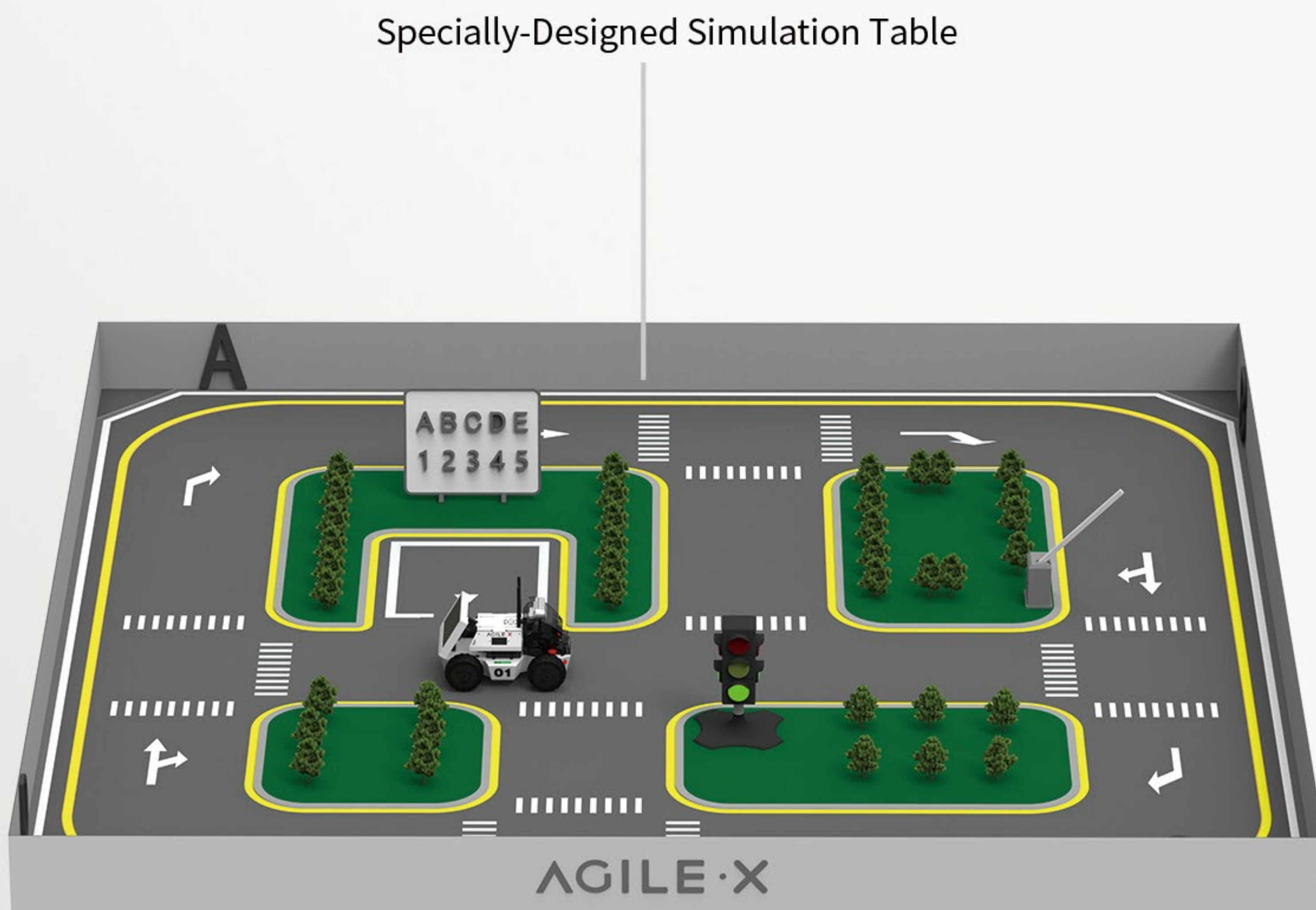0.9L internal expansion space

Four USB Serial Port

METAL STRUCTURE, POWERFUL MOTOR

Metal sturdy appearance

Wheel-motor Integration

Specially-Designed Simulation Table

Touch Screen Trumpet   WIFI   Infrared Camera

Wheel-Motor Integration   NVIDIA jetson nano   One key switch   LiDAR

Easier to develop with Simulation Table	AgileX Open-source Community
SLAM & V-SLAM	Built-in ROS&ROS2 Packages
Autonomous Traffic Light Recognition	Programming Demos
Autonomous Reversing And Warehousing	Simulations powered by Gazebo
Autonomous Navigation and Detection	Robot Development manual

Product specification

Mechanical Parameter	Dimensions	322x215x247mm
	Weight	4.2kg
	Climbing Ability	25°
Hardware System	Power interface	DC (5.5x2.1mm)
	Work time	40min
	Standby time	2h
Sensor	LIDAR	EAI X2L
	Camera	Stereo Camera
	Industrial PC	NVIDIA Jetson Nano (4G)
	Voice module	IFLYTEK Voice Assistant/Google Assistant
	Trumpet	Left and right channels (2x2W)
	Monitor	7 inch 1024x600 touch screen
software	Open source platform	ROS1/ROS2
	Communication protocol	UART
Remote control	Control method	APP
	Wheels included	Off-road wheel x4, Mecanum wheel x4, track x2

AGILE·X
Robotics

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