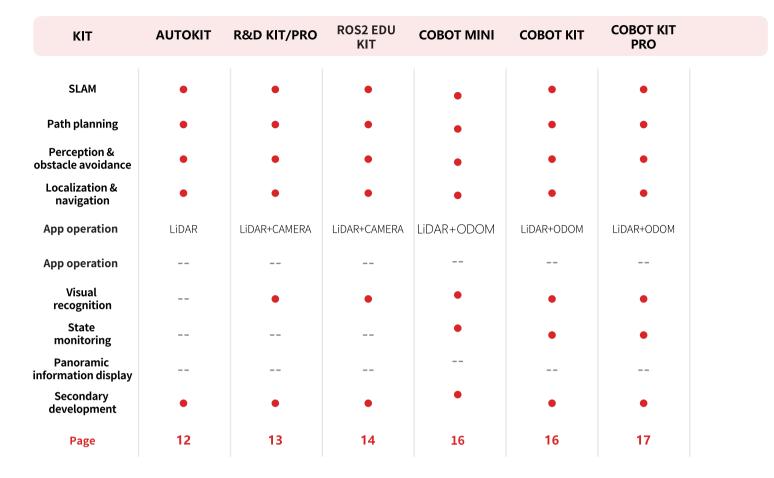
Selection Guide: Robot Chassis ;Replaceable battery

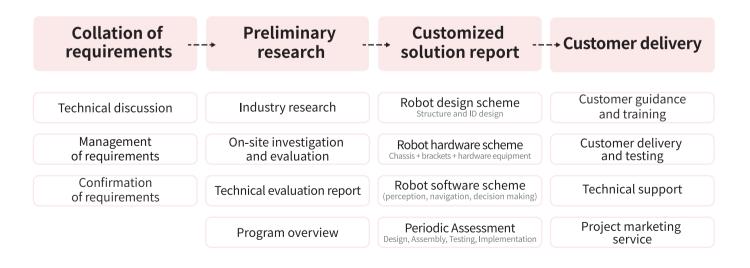
CHASSIS	SCOUT2.0	SCOUT MINI	RANGER	RANGER MINI3.0	Universal Mobile Robot	HUNTER2.0
Steering	Differential steering	Differential steering	Independent four- wheels steering	Independent four- wheels steering	Independent four- wheels steering	Ackermann steering
Size	930x699x349mm	612x580x245mm	1228x876x520mm	738x500x338mm	830x540x410mm	980x745x380mm
Speed(full load)	1.5m/s	3m/s	2.6m/s	1.5m/s	1.5m/s	1.5m/s
Load capacity	50KG	10KG	150Kg	80KG	80KG	150KG
Replaceable battery			•	•	•	•
Battery capacity Battery upgrades	24V60AH 24V30AH	24V15AH	48V24AH*4 48V24AH	48V24AH	48V24AH	
Operating terrain type	Normal、Outdoor obstacle-crossing, climbing	Normal、Outdoor obstacle-crossing, climbing	Normal、Outdoor obstacle-crossing, climbing	Normal、Outdoor obstacle-crossing, climbing	conventional pavement	Normal、 ≤10° climb grade
IP rating	IP64 IP44 IP22	IP22	IP55	IP54	IP65	IP54 IP22
Page	01	02	03	04	05	06

CHASSIS	HUNTER SE	BUNKER PRO	BUNKER	BUNKER MINI2.0	TRACER
Steering	Ackermann steering	Tracked differential steering	Tracked differential steering	Tracked differential steering	Two wheels differential steering
Size	820x640x310mm	1064x845x473mm (Without antenna)	1023x778x400mm	660x584x340mm	685x570x155mm
Speed(full load)	4.8m/s	1.5m/s	1.5m/s	1m/s	1.6m/s
Load capacity	50KG	120KG	70KG	25KG	100KG
Replaceable battery	•				
Battery capacity Battery upgrades	24V30AH 24V15AH	48V60AH	48V60AH 48V30AH	24V30AH	◆ 24V30AH 24V15AH
Operating terrain type	Normal、 ≤10° climb grade	Normal、Outdoor obstacle-crossing, climbing	Normal、Outdoor obstacle-crossing, climbing	Normal、Outdoor obstacle-crossing, climbing	Flat terrain No slope and no obstacles
IP rating	IP22	IP67	IP54	IP67	IP22
Page	07	08	09	10	11

Selection Guide: Research Kits



Industry solution customization service



» SCOUT Four-Wheel Differential Series

SCOUT 2.0: All-in-one Drive-by-wire Chassis

Unmanned Ground Vehicle (UGV) suitable for indoor & outdoor industrial applications



Applications:

Inspection, detection, transportation, agriculture, and education





specifications



Four-wheel drive, suitable for navigating complex terrain



Kindly clarify if the long-lasting battery is available by default, or if the long-lattery battery is only avialable with external expansion.



400W brushless servo motor



Circulating cooling system enables operation in all weather



Double wishbone suspension provides stability on uneven terrain



Secondary development and external expansion supported

Category	Specifi	cations	
Dimensions (WxHxD)	930mm x 699mm x 349mm		
Weight	67Kg(±1)		
Maximum speed	1.5	m/s	
Minimum Ground Clearance	135	mm	
Rated Travelling Load	50KG(Friction C	Coefficient 0.5)	
Climb grade	<30° (With Loading)		
Operating temperature	-10~40°C		
Battery	24V / 30Ah (Standard) 24V / 60Ah (Optional)		
Suspension form	Front Double Rocker Independent Suspension	Rear Double Rocker Independent Suspension	
Rating	3h	6h	
Protection Level	IP22 (Upgrade to IF	IP22 (Upgrade to IP44/IP64 available)	
Certification	CE		
Optional accessories	5G parallel driving/Autowalker intelligent navigation KIT/Binocular depth camera/ Automatic charging pile/Integrated inertial navigation RTK/Robot arm/LiDAR		

» SCOUT Four-Wheel Differential Series

SCOUT MINI: High-speed Drive-by-wire Chassis

Compact version of SCOUT 2.0 capable of navigating through tight spaces





Wheel Options (Off-road/ Mecanum)

Four-wheel differential steering enables zero turn radius

enables zero turn radius high driving speed Up to 10KM/H



10KM/h

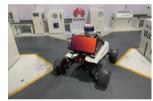
Wheel hub motor supports flexible movements

Lightweight vehicle body
 capable of longer range operation

Independent suspension provides strong driving force

Secondary development and external expansion supported

Applications: Inspection, security, autonomous navigation, robotics research & education, photograp,hy .



Intelligent industrial inspection robot

Specifications

Autonomous navigation robot

Category	Specifi	cations	
Dimensions (WxHxD)	612mm x 580mm x 245mm		
Weight	23Kg((±0.5)	
Maximum speed	3m/s (Standard Wheel)	3m/s (Mecanum Wheel)	
Minimum Ground Clearance	115	mm	
Rated Travelling Load	10Kg (Standard Wheel)	20Kg (Mecanum Wheel)	
Climb grade	<30° (Without Loading)	<8° (Without Loading)	
Battery	24V / 15Ah (Standard)		
Suspension form	Trailing arm indepe	endent suspension	
Protection Level	IP22		
Certification	CE		
Optional accessories	5G parallel driving/ Binocular depth camera/ LiDAR /IPC /IMU/ R&D KIT LITE&PRO		

» RANGER Independent Four-Wheel Steering Series

RANGER: Omnidirectional Mobile Robot Chassis

Omnidirectional robot with high payload capacity, for indoor and outdoor environments



0 150 Kg

150KG load capacity

160mm ground clearance allows the robot to overcome obstacles

Four-wheel independent suspension enables navigation through challenging terrains



Four motion modes



Modular UPS, supports hot swrapping



Secondary development and external expansion supported

Applications: Security, logistics/delivery



Logistics Delivery Robot



Category	Specification	Category	Specification
Dimensions (WxHxD)	1228mm×876mm×520mm	Climb grade	10°
Axle Track	560 MM	Weight	100kg
Wheelbase	890MM	Maximum Payload	150kg
Motor	48V brushless geared motor	Battery Life	2-8H
Rated Power	600W*4	Charging Time	1H(Single Battery)
Rated Torque	22NM*4	Battery Type	Lithium Battery
Speed	0~2.6M/S	Single Battery Capacity	24Ah(Support up to 4 batteries)
Drive form	Omnidirectional	Rated Voltage	48V
Maximum Obstacle Height	100MM(Vertical Obstacles Fully Loaded)	Protection Level	IP55

» RANGER Independent Four-Wheel Steering Series

Hub Radius

Parking Type

Maximum Load

Climb grade

Drive form

Maximum Travel

100mm

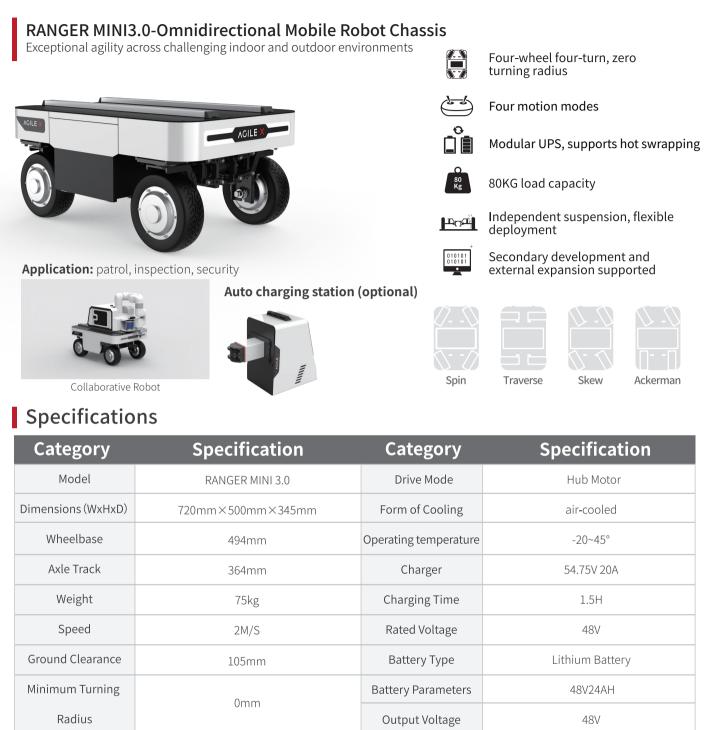
Electronic brake

80KG

15°(with load)

Omnidirectional

35KM



Motor

Communication

Suspension

Battery Life

Maximum Endurance

Steering Drive Motor 100Wx4

Power Drive Motor 350Wx4

CAN

front wishbone and rear

independent suspension system

IP54

7~8H

>> Universal Mobile Robot

industrial grade mobile robot platform



- IP65 rated for dust and water resistance
- low-code solutions for easy implementation.
- Quick-release modular design
- Circular perception and multimodal integration

Application: patrol, inspection, security



Auto charging station (optional)



Category	Specification	Category	Specification
Dimensions	830 mm x 540 mm x 410 mm	Auto Charging	
Weight	90kg	Pile Type	Contact-type charging pile
Load Capacity	80kg	Minimum	700
Drive Mode	Omnidirectional drive	Passage Width	700mm
Travel Speed	1.5m/s	Protection Grade	IP65
Battery	48V24Ah	Climbing Ability	20°
Specifications		Turning Radius	0
Operating Time	4H	Suspension Type	Independent suspension
Auto Charging	Supported		·
Charging Time	1.5H		

>> HUNTER Ackermann Steering Series

HUNTER 2.0- The Ackermann Front Steering Drive-by-wire Chassis

Non-independent suspension, Hill hold control



Applications:Industrial robot, autonomous logistics, autonomous delivery



Outdoor patrolling robot

Specifications



navigation robot

Category	Specifi	ication
Dimensions (WxHxD)	980mm x 745mm x 380mm	
Weight	65-	72kg
MAX Speed	1.5m/s (S	Standard)
Minimum Ground Clearance	100mm	
Rated load	150kg	
Climbing Ability	<10° (With Loading)	
Battery	24V / 30Ah (Standard) 24V / 60Ah (Optional)	
Suspension form	Front wheel non-independent suspension	
Protection Level	IP22 (Customizable IP54)	
Certification	CE	
Optional accessories	5G parallel driving/Autowalker intelligent navigation KIT/Binocular depth camera/LiDAR/IPC/IP camera/Integrated inertial navigation RTK	



Fully extensive with ROS and CAN Port

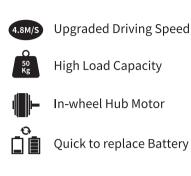
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>> HUNTER SE: Ackermann Front Steering Drive-by-wire Chassis

Ackermann Front Steering Drive-by-wire Chassis

Compact, modular design equipped with modular shock absorption system





Application: Autonomous parcel delivery, Unmanned food delivery, Unmanned logistics, Patrolling.



Category	Specification
Dimensions	820mm x 640mm x 310mm
Minimum Ground Clearance	120mm
Weight	42kg
Maximum Payload	50kg
Battery	24V30Ah lithium battery
Charging Time	3h
Max Travel	> 60Km
Motor type	350w*2 (Brushless DC motor)
Operating temperature	-10~40°C
Suspension form	Front wheel non-independent suspension
Climb grade	50mm
Climbing Ability	10°(full load)
Minimum Turning Radius	1.5m
Maximum speed	4.8m/s
Braking distance	2m
Protection Level	IP22
Communication interface	CAN

>>> BUNKER Tracked Differential Steering Series

BUNKER PRO-Enhanced Trcked Chassis Robotics Development Platform

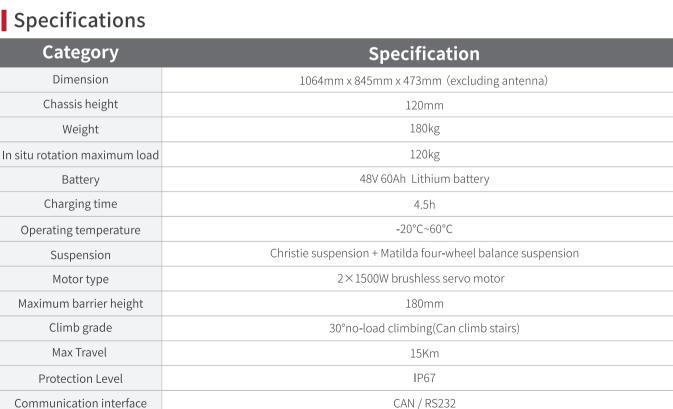
Super high off-road mobility for easily tackling challenging environments



Applications: Agriculture, Building modes, Surveying and mapping, Inspection, Transport.









ROS Fully extensible

» BUNKER Tracked Differential Steering Series

BUNKER: Tracked Differential Drive-by-wire Chassis Outstanding off-road performance with robust load capacity.



Applications: Patrolling, inspection, transportation, agariculture, disinfection, pick & place robots







Remote disinfection robot

Specifications



Tracked differential steering provides exceptional terrain adaptability



Christie suspension system enables smooth driving on challenging terrains.



Maximum climb grade of 30°



Duplicated - to remove

Category	Specific	cation	
Dimensions (WxHxD)	1023mm x 778mm x 400mm		
Weight	145-150kg		
MAX Speed	1.5r	n/s	
Minimum Ground Clearance	90mm		
Rated Load In Movement	70KG(Friction Coefficient 0.5)		
Climb grade	<30° (with load)		
Battery	48V / 30Ah (Standard)	48V / 60Ah (Optional)	
Suspension form	Christie Suspension		
Protection Level	IP54		
Certification	-		
Optional accessories	5G parallel driving/Autowalker intelligent navigation KIT/Binocular depth camera/ Integrated inertial navigation RTK/LiDAR/Robot arm		

» BUNKER Tracked Differential Steering Series

BUNKER MINI 2.0: Miniature Tracked Chassis

Compact robot for navigating complex terrain and narrow environemnts.



Applications: Waterway surveying and mapping, mineral exploration, pipeline inspection, security inspection, photography, special transportation



Category	Specification
Dimensions	690mmX570mmX335mm
Height	80mm
Weight	56kg
Maximum Payload	25kg
Battery	24V30Ah Lithium Battery
Charging Time	3-4h
Operating Temperature	-20°C~60°C
Power Drive	Left and right independent drive Track-type differential steering
Motor	250w*2 (Brushed DC Motor)
Obstacle Surmounting Capacity	115mm
Climb grade	30° (No payload)
Minimum Turning Radius	0m (In-situ Rotation)
Protection Level	IP67
Communication interface	CAN

» TRACER Two Wheels Differential Steering Series

TRACER: Drive-by-wire Chassis

Highly cost-effective development platform for indoor unmanned delivery applciations



100KG load capacity



Flat design suitable for indoor applications



Differential rotation capable of zero turn radius

Swing arm suspension facilitates navigation over small obstacles



Secondary development and external expansion supported

Applications: Industrial logistics robot, agricultural greenhouse robot, indoor service robots, etc.



Panda greenhouse autonomous robot

Cobot Magic

Specifications

Specification Category Dimensions (WxHxD) 685mm x 570mm x 155mm Weight 28-30kg MAX Speed 1.6m/s Minimum Ground Clearance 30mm Rated Load In Movement 100KG (Friction Coefficient 0.5) **Climbing Ability** <8° (With Loading) 24V / 15Ah (Standard) 24V / 30Ah (Optional) Battery Suspension form Swing arm non-independent suspension **Protection Level** IP22 Certification _ **Optional Accessories** IMU/Binocular depth camera/Automatic charging pile/LiDAR/Integrated inertial navigation RTK/Robotic arm/IPC

» TRACER Two Wheels Differential Steering Series

TRACER Mini: Indoor AGV

Highly cost-effective development platform, suitable for various applications



Applications: ROS education, factory transport, indoor service robots, and inspection robots



Specifications

Category	Specification
Dimensions (WxHxD)	427mmx416 x194mm
Weight	18-20kg
MAX Speed	1.6m/s
Minimum Ground Clearance	30mm
Rated Load In Movement	40KG (Friction Coefficient 0.5 Ground Test)
Climb grade	<15°
Battery	24V / 15Ah
Suspension form	Front Drive Rear Swing Suspension
Protection Level	IP22
Certification	_
Optional Accessories	IMU/Depth Camera/Automatic charging pile/LiDar/ Combined Inertial Navigation RTK/Robotics Arm/Industrial Computer

40KG super load capacity Autonomous path planning Autonomous stopping and obstacle avoidance



40 Kg

Differential rotation, zero turning radius

Secondary development and external expansion supported

» AUTOKIT: Open Source Autonomous Driving Development Kit

Autonomous driving development KIT based on the Autoware open source framework





Adding high precision antenna and VRTK

Specifications



Standard autonomous driving open source development kit

- APP enabled real time panoramic monitoring
- Autonomous obstacle avoidance
- Autonomous path planning
- Rich open source software packages
- ROS-based application cases
- Detailed development documentation

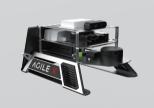
Category	Specification		
	Model	AUTOKIT	AUTOKIT PRO
	Computer unit	ASUS VC66 (i7-9700/16G/512G)	APQ (I7-9700/32G/256G/1660) with 1660 graphics card
	Multi-beam LiDAR	RoboSense RS-Helios-16P	
	Communication module	Huawei 4G Router	
	LCD screen	14 inch IPS1920*1080	
	keyboard	Logitech K400 Plus	
Standard Hardware Configuration	USB-HUB	UGREEN 12V 7hubs	
	Regulated Power Supply	24Vto24V10A、24Vto12V20A	
	Stand	pro	
	Depth camera	D435	
	RTK-GPS	-	StarNeto M2
	IMU	-	CH110
	Monocular camera	-	МЗ
Software Features	Control mobile robot chassis based on ROS, view 3D point cloud data based on RS16 radar, use Autokit to construct 3D point cloud map, and view 3D point cloud data, use Autokit to record and track waypoints, stop obstacles, and use hybrid A* for free navigation, Use Autokit for local local path planning Added to the base version: Edit vector maps (lane markings, zebra crossings, curbs, etc.) Global Path Planning with Autokit (combined with vector map)		

» R&D Kit Pro: Education Development Kit

The ROS/Rviz/Gazebo/Nomachine ready development KIT customized for robotics education and industrial application development.



- High precision localization & navigation
- Autonomous 3D mapping
- Autonomous obstacle avoidance
- High-performance computing unit
- Complete development documents and DEMO
- All-terrain and high-speed UGV





R&D KIT LITE

R&D KIT PRO

Category	Specification		
Model	SCOUT MINI LITE SCOUT MINI PRO		
Industrial control system	Nvidia Jetson Nano Developer Kit Nvidia Xavier Developer Kit		
LIDAR	High precision mid-short range LiDAR-EAI G4 RS -Helios-16p		
Camera	Intel Realsense D435		
Monitor	Size: 11.6 inch; Resolution:1920 x 1080P		
Chassis module	SCOUT 2.0/SCOUT MINI/BUNKER		
Pre-installed system	Ubuntu 18.4 and ROS		

» ROS2 EDU KIT

With the ROS2Foxy version as the core, it integrates vision, radar, motion control and other modules to provide a comprehensive robot development platform for education and scientific research.



- High precision localization & navigation
- Autonomous 3D mapping
- Autonomous obstacle avoidance
- High-performance computing unit
- Complete development documents and DEMO

_				
Sp	ec	ific	cati	ons

Name	Item	Model
	Computer unit	minipc i5 16G 256
	2D Lidar	G4
	Camera	RealSense D435
	Monitor	14 inch IPS 1920*1080 HDMI
E	keyboard	k400 Plus
LITE	Router	GL.iNet AR750s
	USB HUB	7-Port USB3.0 Hub / 12V
	Regulated Power Supply	12V to 5V 15A
	Regulated Fower Supply	24V (15-40V) to 12V/20A
	Computer unit	minipc i7 16G 512G
	3D LIDAR	RS -Helios-16p
	Camera	RealSense D435
	Monitor	14 inch IPS 1920*1080 HDMI
	Keyboard	k400 Plus
PRO	Router	GL.iNet AR750s
	USB HUB	7-Port USB3.0 Hub / 12V
	Regulated Power Supply	24V (15-40V) to 12V/20A
	Chassis module	Scout 2.0/Scout mini/Hunter 2.0/Hunter se/ Bunker pro/Bunker/Bunker mini/Tracer/Tracer mini

» COBOT KIT: Mobile Manipulator

Multifunctional robot suitable for various applications including intelligent transportation, sorting and inspection.



- SLAM and Path Planning
- Autonomous navigation and obstacle avoidance
- Object recognition based on depth vision
- 6DOF manipulator components suite
- All-purpose/off-road chassis
- Complete ROS documentation and simulation demo

Accessories	Accessories list	
Computer unit	APQ industrial computer	
Multi-line LiDAR	Multi-line LiDAR sensor	
Camera	Realsense depth Camera	
LCD module	Portable flat panel display	
	USB-to-HUB cable	
Power module	RSD-500B-48 power	
Regulated Power Supply	24v (15-40v) to 12v/20A power supply	
Regulated Fower Supply	24v to 24v 10A	
Communication module	B316-855 router	
communication module	USB3.0 to TYPE-C data cable 2M	
	BUNKER/SCOUT2.0	
Chassis module	Aviation plug (with wire)	
	Onboard controller	
	Features	
ROS pre-insta	Illed in Industrial Personal Computer (IPC), and ROS nodes in all sensors and chassis	
Navigation and positioning, mapping, and DEMO based on multi-line LiDAR		
Motion control (including point and path control), planning, and staticobstacle avoidance based on robotic arm ROS node "Move it"		
	ROS control over robotic arm gripper AG-95	
QR Code positioning, object color and shape recognition, and DEMO grasping based on Intel Realsense D435 binocular camera		

» COBOT KIT PRO: Mobile Manipulator

High-performance autonomous cobot kit for educational robotics research and commercial application development

- SLAM and Path Planning
- Autonomous navigation and obstacle avoidance
- Object recognition based on depth vision
- 6DOF manipulator components suite
- All-purpose/off-road chassis
- Complete ROS documentation and simulation DEMO

Accessories	Accessories list		
Computing unit	APQ industrial computer		
Multi-line LiDAR	Multi-line LiDAR sensor		
Mutti-time LIDAK	Sensor controller		
	Portable flat panel display		
LCD module	USB-to-HDMI cable		
	USB-to-CAN module		
	Switching DC-DC19~72V to 48V power supply		
Power module	DC-to-DC 12V24V48V power supply		
	24v~12v step-down power module		
Communication module	4G router		
Communication module	4G router and antenna		
	Bunker/Scout2.0		
Chassis module	Aviation plug (with wire)		
	Onboard controller		
Features			
ROS pre-insta	ROS pre-installed in Industrial Personal Computer (IPC), and ROS nodes in all sensors and chassis.		
Navigation and positioning, mapping, and DEMO based on multi-line LiDAR.			
Motion control (including point and path control), planning, and staticobstacle avoidance based on robotic arm ROS node "Move it"			
	ROS control over robotic arm gripper AG-95		
QR Code positioning, object color and shape recognition, and DEMO grasping based on Intel Realsense D435 binocular camera			

» LIMO ROS2: The Multi-modal ® ROS Powered Robot Development Platform

World's first ROS mobile robot development platform integrating four motion modes, adaptable to a wider range of application scenarios than table-robot

- Fe fou
 Ful
 Rich
- Specifications



- SLAM & V-SLAM
- Flexible switch among four motion modes
- Fully expandable platform with ports
- Rich ROS packages and documents



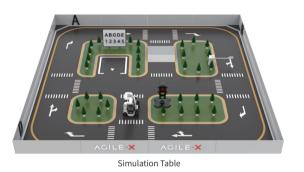
Product	Specification
Size	322*220*251mm
Weight	4.8kg
Payload	4kg
GC	24mm
Steering	40N · m
Max Speed	1m/s
Battery	10Ah 12V
OS	Ubuntu22.04
Version	ROS2 Humble

» LIMO COBOT KIT: ROS Robotics Platform

Open-source mobile robot with a modular robotic arm. Suitable for education, reserach, competitions, and other applications



- Navigation and obstacle avoidance
- SLAM Mapping
- Robotic arm for various applications
- Supports ROS, Python, C++, C#





Product	Specification
Weight	5.6kg
Navigation	Visual positioning, SLAM and Navigation
Precision	1-2cm
Arm Working Precision	0.5mm
Arm Working Radius	280mm
LIMO PRO Payload	4KG
Robotic arm Payload	250G
Communication	USB
	TYPE C

» PiPER

High-Performance 6-DOF Robot for Research and Education



 Image: Second system
 Gripper

 Image: Second system
 Teaching Device

- Lightweight design for portability and flexibility
- Easy installation and quick to master
- Effective load capacity: 1.5 kg
- Working radius: 626 mm
- Supports API, CAN, ROS1, and ROS2



Product	Specification		
Degrees of freedom (DOF)	6		
Payload	1.5kg		
Weight	4.2kg		
Repeatability	±0.1mm		
Reach	626mm		
Input voltage	DC24V		
Material	Aluminum alloy body, polymer shell		
Controller	Integrated		
Communication	CAN		
Programming	Drag teaching/offline trajectory/API/PC		
External interface	Power *1, CAN *1		
Motion range Joint range	J1: ±154° J2: 0°~195° J3: −175°~0° J4: −100°~112° J5: −75°~75° J6: ±100°		
Maximum speed	J1: 180°/s J2: 195°/s J3: 180°/s J4: 225°/s J5: 225°/s J6: 225°/s		

» COBOT S KIT

A general-purpose interactive robot for countless everyday tasks



- 360°Omnidirectional Vision for seamless environmental perception
- Advanced AI for visual perception and object manipulation
- Continuously learns and adapts through real-world experiences
- Autonomous planning and decision-making

Product	Specification
Size	738mmX500mmX1618mm
Weight	100kg
Ground clearance	107mm
Positioning Accuracy	±5cm
Battery	38V24A
Maximum Speed	1.6m/s
Gripper Load	5KG

≫ COBOT MAGIC

Open-Source Bimanual Mobile Manipulation with Whole-Body Teleoperation



Specifications

- Whole-body teleoperation system
- Ultra-lightweight 6DoF robotic arms
- High-performance on-board computer
- 2-Wheel differential drive mobile robot
- Completes complex tasks via imitation learning

Tasks: pouring water, cooking, taking the elevator, packing away items





Specification Product Wheeled Mobile Robot Tracer **Depth Camera** Orbbec Dabai USB Hub 12V Power Supply 6DOF Lightweught Piper Robotic Arm*4 Adjustable Velcro*2 Customized Grip Tape*2 Customized **Power Strip** 4 Outlet ALOHA Stand Customized APQ-X7010/GPU 4060 **On-board PC** i7-9700-32G-4T Keyboard Logitech 11.6"1080P Display

Automatic charging pile

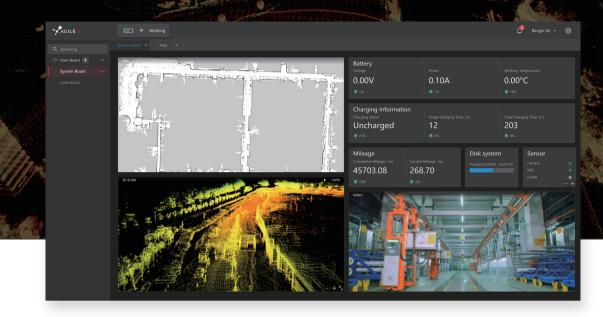


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Category		Parameters	
Matched Battery Type		Lithium-Ion Battery	
Charging Mode		CC/CV	
Heat Sinki	ing Method	Cool by Fan	
	Range of Input Voltage	Rated range (200~240VAC) Adjustment range (200~264 VAC)When switching to 110V, the rated range is 100~120VAC	
	Range of Input Frequency	47-63Hz	
Input	Power Factor	PF>0.65/200-240VAC(when fully loaded)	
	Efficiency	90%min.@220VAC	
	Input AC Current	15Amax. @200Vac input & Full load 20Amax. @200Vac input & Full load	
	Rated Voltage	54.75V	
	Rated Current	20A	
Output	Rated Power	1095W	
	Voltage Precision	±0.2	
	Standby Power	≤10W	
	Short Circuit/Reverse Battery Polarity	The power / battery is properly connected.	
	Battery Polarity Current /Over Load /Under voltage	Once the issue is resolved, normal operations can resume.	
Protection	Over Voltage	the voltage exceeds 1.15-1.25 times the rated level, the power supply safeguards itself and returns to normal when the issue is fixed.	
	Over Temperature	When the transformer core temperature surpasses 85°C, the charger's current is halved. It goes back to normal once it cools down.	
	Operating Temperature	-25°C~+40°C	
	Operating Humidity	10~95%RH, non-condensing. 10~95%RH, no condensation.	
Environment	Storage Temperature Humidity	-40° C~+80° C,10-95%RH	
	Operating Altitude	2000m	
	Non-Operating Altitude	10000m	

AGILEX · NAVIS 3D Laser Navigation Kit

NAVIS is a full-scenario autonomous navigation system designed for semi-enclosed and fully enclosed environments. NAVIS uses LiDAR, depth cameras, and IMUs to construct scenes and for environmental perception. It integrates NAVIS Brain, NAVIS Bridge and NAVIS Board to visualize data, map the environment and manage tasks.



» Featured Functions

\mathcal{F} Human-machine interaction

User-friendly and interactive design facilitates operation across PC, mobile and tablets. Uesers can also manage robots, conduct task planning and path correction, and perform other scheduling tasks using its customisable operating interface.

A Multi-sensor fusion

NAVIS can be fitted with a variety of sensors, including LIDAR, a depth camera, and a radio-time-code (RTK), to enable intelligent path planning, autonomous obstacle avoidance, high-precision positioning, and navigation.

Collaboration work

NAVIS support local network collaboration. It is capable of tracking robots' status and operational environment in real time, including battery life, speed and location. It also enables dynamic adjustment of robot planning, and enables completion of multi-point tasks in an effective, stable and

Strong compatibility

NAVIS is highly compatible with all AGILEX ROBOTICS chassis, making it easy for users to connect and use their robots.

🕸 Management of maps

NAVIS enables 3D mapping and map editing, enabling users to select maps and alter virtual barriers and obstacles.

😥 Safety management

NAVIS can detect and avoid obstacles in real-time. It incorporates a number of safety features, including a light alert and emergency stop buttons.

» Application Scenarios



Security Patrols



Smart Factories



Warehouse Logistics

Customer Use Cases

>> Environmental Remediation







>> Engineering Surveying



» Agricultural Applications



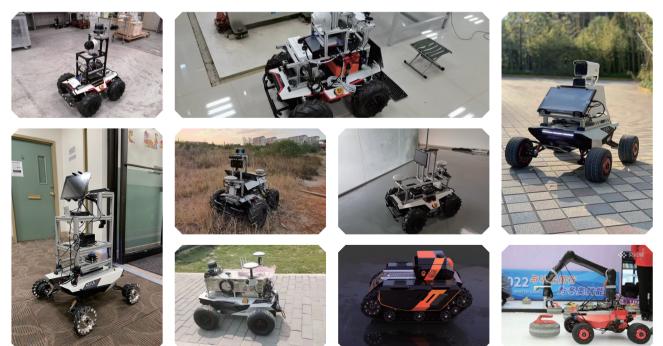
» Industrial Applications



» Logistics Distribution



» University Research



» Security Patrol



Trusted By Customers

DU PENG, HUAWEI HISILICON ASCEND CANN ECOSYSTEM EXPERT



"The AgileX Mobile Robot Chassis demonstrates excellent mobility and performance in crossing obstacles. Its standard development interface enables the quick integration of autonomous software and hardware "

ZUXIN LIU, DOCTORAL STUDENT AT SAFETY AI LAB AT CARNEGIE MELLON UNIVERSITY (CMU AI LAB)

"The AgileX ROS developer suite provides a combination of open-soure algorithms, high-performance IPC, various sensors"

HUIBIN LI, ASSISTANT RESEARCHER AT CHINESE ACADEMY OF AGRICULTURAL SCIENCES (CAAS)

"The AgileX SCOUT 2.0 is a mobile chassis with advantages in outdoor off-road climbing, heavy-load operation, heat dissipation and secondary development, which greatly promotes the realization of intelligent agricultural inspection, transportation and management functions."