










# Cobot Kit

Autonomous mobile manipulator For Your R&D Project



• Fully pre-installed ROS node	• All-terrain	• High-precision 3D mapping
• Simulation models powered by RVIZ and Gazebo	• Autonomous navigation and obstacle detection	• Open source programs and Demos

<b>Adaptable chassis</b>  Bunker  Scout2.0		<b>Applications</b>  Agriculture  Mining  Forest  Urban road  Factory				
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	AUBO i5		xArm 6
	Adaptable Chassis : Bunker		Adaptable Chassis : Scout2.0/Hunter2.0/Ranger mini
	Payload : 5KG		Payload : 5KG
	Weight (excluding controller) : <24KG		Weight (excluding controller) : 12.2KG
	Arm's reach : 1053.5mm		Arm's reach : 700mm
DOF : 6	DOF : 6	Repeated positioning precision : ±0.1mm	
Repeated positioning precision : ±0.02mm			

Accessories		Accessories list
Computing unit		APQ industrial computer
Multi-line LiDAR		Multi-line LiDAR sensor
		Sensor controller
LCD module		Portable flat panel display
		USB-to-HDMI cable
Power module		Switching DC-DC19~72V to 48V power supply
		DC-to-DC 12V24V48V power supply
		24v~12v step-down power module
Communication module		UBS-to-CAN module
		4G router
		4G router and antenna
Chassis module		Bunker/Scout2.0/Hunter2.0/Ranger mini
		Aviation plug (with wire)
		Onboard controller

Features of kit
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 static obstacle 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

\*Compatible chassis: Scout Mini off-road version, Scout2.0 and Bunker chassis  
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