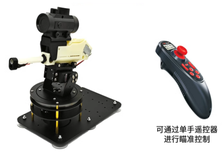
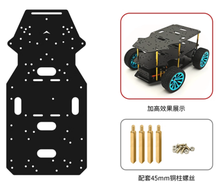
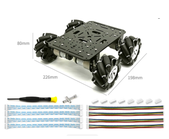
Product Picture	Product Name	Product Code	Description
	N3S Mini Two-Wheeled Differential Drive Car (Circular)	Sofia106	This circular mini differential drive car features a body made of lightweight yet durable ABS engineering plastic, combining agile movement with robust durability. It is specifically designed for introductory robotics programming education, capable of demonstrating differential steering principles and supporting various sensor expansions, making it an ideal platform for integrating theory with practice.
	The N3 Mini Omni Three-Wheel Mecanum Car	Sofia107	The N3 Mini Omni Three-Wheel Mecanum Car features a unique three-Mecanum-wheel layout and a lightweight alloy chassis, enabling omnidirectional movement in forward/backward, lateral, and diagonal directions within a plane. It is specifically designed for advanced robotics algorithm education, complex path planning, and multi-robot collaboration research, serving as an ideal experimental platform for exploring autonomous navigation and industrial automation simulation.
	The R6Q open-source water pellet lau	Sofia108	The R6Q open-source water pellet launching Mecanum wheel vehicle features an omnidirectional mobile chassis with impact-resistant structure, equipped with metal gear transmission system and engineering-grade polymer shell. It is specifically designed for robot combat competitions, motion control algorithm development, and multi-robot collaboration research, perfectly integrating practical combat requirements with educational and scientific functions.
	2-DOF Servo Water Pellet Launcher	Sofia109	The 2-DOF Servo Water Pellet Launcher features a high-strength nylon housing and metal gear transmission system. Equipped with a precision dual-servo gimbal that enables independent pitch and yaw control, it is specifically designed for robotics target practice, motion control algorithm verification, and combat competitions. This unit serves as a core functional module for implementing dynamic target tracking and autonomous firing systems.
	B680 series ROS self-balancing robo	Sofia110	Equipped with TOF LiDAR and a depth camera, it supports both ROS and ROS2 systems. This platform enables implementation of core ROS functionalities including robot motion control, SLAM mapping and navigation, machine vision, 3D vision, and multi-robot formation control. Compared to traditional ROS robot cars, the self-balancing design offers greater engagement while providing practical learning of classical PID control algorithms. Complete with pre-configured ROS images, detailed development manuals, and video tutorials, users can quickly master ROS development with this integrated self-balancing platform.
	The Flat Ultrasonic Distance Sensor M	Sofia111	The Flat Ultrasonic Distance Sensor Module (based on HC-SR04) adopts an ultra-thin integrated PCB design, incorporating high-precision probes and standard servo mounting holes for direct integration into smart car robots or servo gimbal assemblies. It provides reliable distance perception data for real-time obstacle avoidance, environmental mapping, and autonomous navigation systems, serving as a core fundamental module for enabling robotic intelligence and interaction.
	Two-Wheel Differential Drive Chassis	Sofia112	TARKBOT R6 Series Two-Wheel Differential Drive Robot offers flexible motor options including cost-effective encoder TT motors or more powerful 520 encoder motors. Compatible with TB6612 or AT8236 dual motor driver boards, it features multiple mounting points for various controllers and sensors. The platform supports expandable peripherals such as ultrasonic sensors, CCD line followers, LiDAR, OpenMV, and servo gimbals - making it ideal for electronic design competitions, DIY robotics projects, and disciplinary training applications.
	TARKBOT R5 Series Ackermann Ste	Sofia113	TARKBOT R5 Series Ackermann Steering Robot Chassis is an autonomous vehicle platform specifically developed for educational competitions. It employs a standard forward Ackermann steering mechanism with rear-wheel electronic differential drive. The chassis features an all-metal body with optional black/blue tires for a sleek appearance. Equipped with 520 high-power precision Hall encoder geared motors and a dedicated 20KG high-speed digital anti-burn servo for Ackermann steering, it offers 5kg payload capacity and exceptional durability. Compatible with TB6612 or AT8236 motor drivers and various microcontroller boards, it is ideally suited for DIY projects and participation in robotic vehicle competitions.
	TARKBOT R5 Series Ackermann Ste	Sofia114	TARKBOT R5 Series Ackermann Steering Robot Chassis is an autonomous vehicle platform specifically developed for educational competitions. It employs a standard forward Ackermann steering mechanism with rear-wheel electronic differential drive. The chassis features an all-metal body with optional black/blue tires for a sleek appearance. Equipped with 520 high-power precision Hall encoder geared motors and a dedicated 20KG high-speed digital anti-burn servo for Ackermann steering, it offers 5kg payload capacity and exceptional durability. Compatible with TB6612 or AT8237 motor drivers and various microcontroller boards, it is ideally suited for DIY projects and participation in robotic vehicle competitions.
	TARKBOT R5 Series Metal Self-Bala	Sofia115	TARKBOT R5 Series Metal Self-Balancing Chassis features a 3mm thickened aluminum alloy plate with countersunk holes for seamless integration. Powered by high-torque MC520 encoder metal gear motors, this robust platform delivers exceptional load capacity up to 3kg - ideal for DIY competition applications. Compatible with TB6612 or AT8236 motor driver modules and various microcontroller boards, it offers optional 12V lithium battery kits for perfect fit installation. With multiple pre-drilled sensor mounting points, the chassis supports expandable peripherals including ultrasonic sensors, LiDAR, CCD line tracking, OpenMV, and K210 vision modules - making it perfectly suited for competitive robotics scenarios.
	HOTRC China Airlines DS650 One-H	Sofia116	The DS600 model aircraft remote control is a one-handed remote control with six data channels, a 0.96-inch color screen, and voltage and signal feedback. Based on 2.4G FHSS wireless communication technology and the latest frequency-hopping protocol, it offers a wireless control range of 300-800 meters in an unobstructed area. Its ergonomic design and convenient size make it ideal for single-handed control of robots, cars, model boats, fishing boats, lawn mowers, and other equipment. It offers a choice of PWM or SBUS receivers for multi-purpose control. The SBUS receiver can be connected to the device's standard UART port via a serial port adapter board. By parsing the SBUS remote control protocol data, it enables ultra-long-range wireless control of the device.
	HOTRC HT-10A Model Aircraft Remo	Sofia117	The HT-10A model aircraft remote control is a multifunctional 10-channel model aircraft remote control equipped with a 1.7-inch color screen and supports voltage and signal feedback. It features an ergonomic design, a convenient size, and a comfortable grip. Using 2.4GHz FHSS wireless communication technology and a new frequency-hopping protocol, it offers a wireless control range of 300-800 meters in an unobstructed space. It offers a choice of PWM or SBUS receivers, enabling multi-purpose control. The SBUS receiver can be connected to the device's standard UART port via a serial port adapter board. By parsing the SBUS remote control protocol data, it enables ultra-long-range wireless control of the device.
	R22 Series Robotic Arm Chassis	Sofia118	The TARKBOT R22 series robot chassis offers Mecanum wheels, a four-wheel differential chassis, and options for 1, 2, 4, or 6 degrees of freedom. It features a stylish RGB headlight, a shared electronic control system, and the open-source OpenCTR H60 controller (STM32F407). It supports control via PS2 controllers, mobile apps, and model aircraft remote controls, as well as ROS control via USB serial, TTL serial, and CAN interfaces. It features a built-in kinematic solver and outputs information such as odometer, IMU, and battery life. Quickly create a ROS robot using your own Raspberry Pi, Nano, or other controller.
	The TARKBOT R5 series smart car c	Sofia119	The TARKBOT R5 series smart car chassis offers two baseplate options: 4mm thickened acrylic and 2mm aluminum alloy. The baseplate supports motors such as 520/513/310/370/TT, allowing for the assembly of various smart car chassis types, including three-wheeled, four-wheeled differential, and micro-wheeled. The R5 car baseplate includes multiple mounting holes for controllers and sensors, allowing for expansion of peripherals such as infrared line tracking, ultrasonic, CCD line tracking, LiDAR, and OpenMV cameras. It can also be equipped with servos, gimbals, and robotic arms. It is ideal for e-sports, DIY cars, ROS robots, and educational training.
	TARKBOT R20 series ROS robots	Sofia120	The newly upgraded TARKBOT R20 series ROS robots surpass all others in appearance, performance, tutorials, price, and quality control. Compare and purchase with confidence!The upgraded open-source control board features an STM32F407 controller. This industrial-grade four-layer board is compact and powerful, and includes a 4-channel encoder motor, an 80A electronic switch, a 2-channel 5V/5A power supply, an IMU sensor, 2 USB serial ports, a CAN bus, 6-channel PWM servos, RGB colored lights, and 32 expansion I/Os, making expansion and development easier.The upgraded high-precision 1024-line encoder motor boasts 78 times the accuracy of standard Hall effect encoders, offering higher odometry accuracy and excellent performance during low-speed navigation, making it suitable for high-precision SLAM research. It features a programmable RGB color headlight with support for a variety of cool lighting effects. It supports a wide range of ROS controllers, including the Horizon X3, Raspberry Pi, Jetson series, and X86 industrial computers. It supports ROS versions 1 Melodic/Noetic, 2 Foxy/Humble, and more. Fully open source, it allows users to learn not only ROS C++/Python programming, but also STM32 robot programming and FreeRTOS robot development. The lidar uses the Silan A1 high-speed version, with a 16Hz continuously