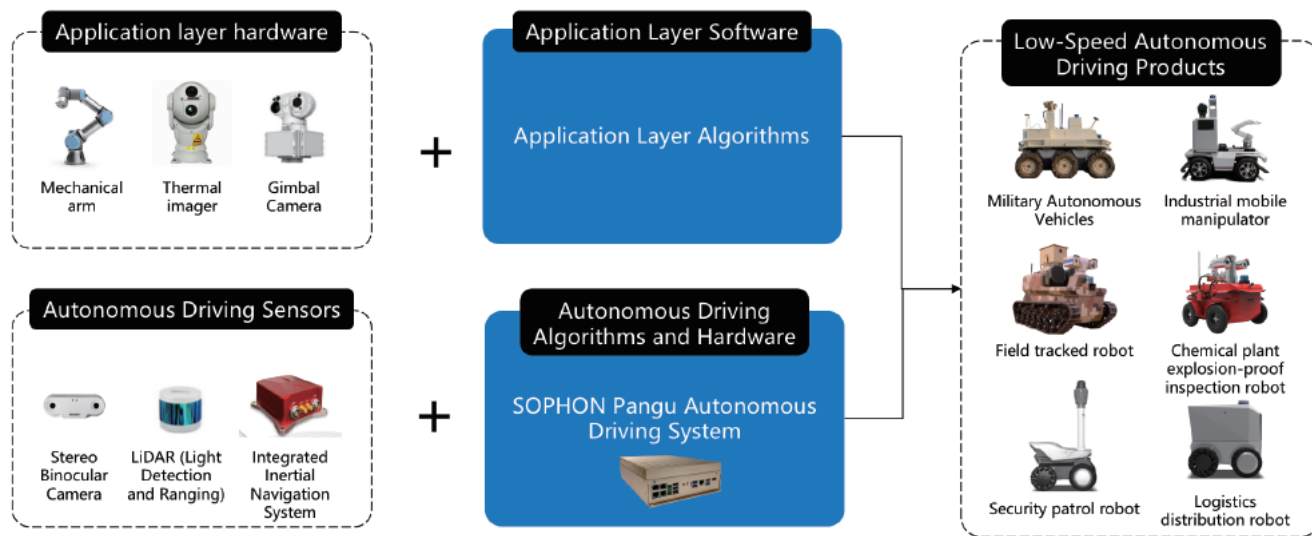

Mid-Low Speed Autonomous Driving Solutions

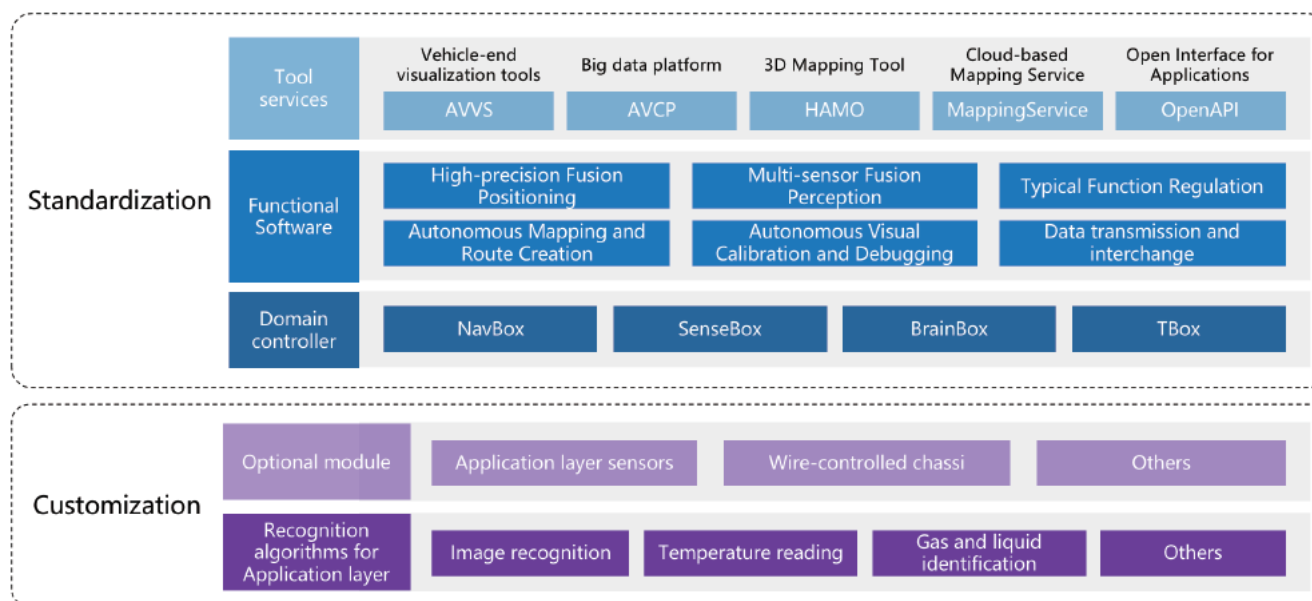
Focus on the field of middle
and low speed autonomous driving.

SOLUTION FRAMEWORK

Integrated low-to-medium speed L4 autonomous driving solution, empowering customers to achieve unmanned and intelligent operations.

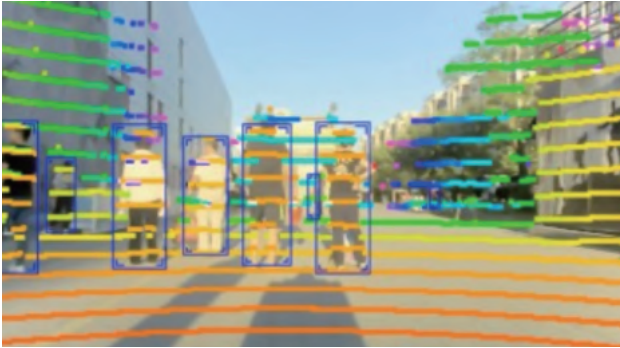


Provide "standardized + customized" integrated autonomous driving solutions.



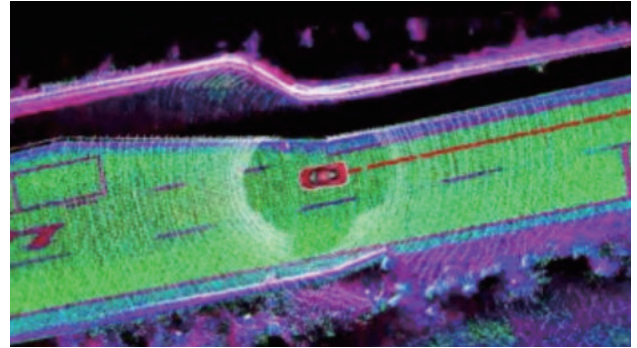
SOPHON PANGU AUTONOMOUS DRIVING SYSTEM

Park-level L4 medium- and low-speed autonomous driving, for both indoor and outdoor



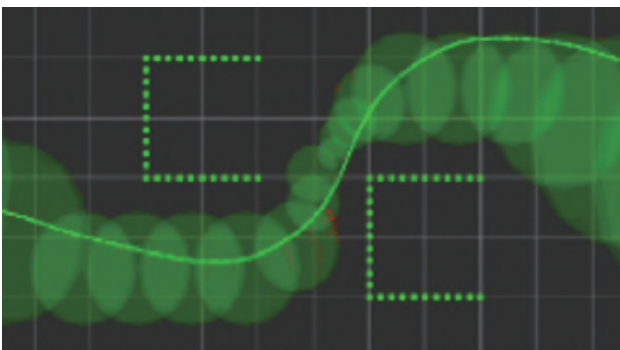
Multi-sensor fusion perception

Utilizing various types of perception sensors and deep learning algorithms, the front and back fusion processing of heterogeneous information has been carried out, achieving 360° no-dead-angle perception coverage in indoor and outdoor scenes, and realizing precise perception of small targets with a minimum size of 7cm.



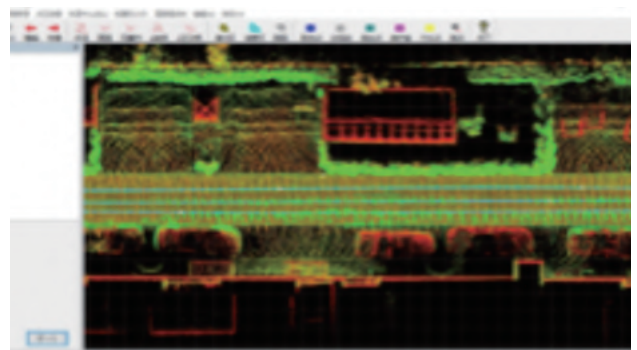
High-precision fusion positioning

Based on the precise scene reconstruction and multi-sensor fusion positioning technology, it is possible to achieve high-precision positioning in complex indoor and outdoor in dynamic working conditions, with an average accuracy of 5~10cm.



Typical functional planning control

Supports typical functions and motion planning, and control under typical chassis conditions. Custom development is available for special product applications, while also providing open sensor, perception, and positioning interfaces for users to perform secondary development.



Three-dimensional high-precision mapping and charting.

Supports user-generated data mapping. Through cloud-based full-condition three-dimensional scene reconstruction, the reconstruction accuracy can reach 5~10cm; The mapping efficiency is about 2 hours to complete a typical park scene.

SECURITY PATROL ROBOT

Self-developed "Goosebot" patrol robot, which deeply integrates multi-sensors such as Lidar and visual cameras with AI algorithms, provides modularized and customized autonomous/unmanned driving solutions for military, security, data center, power stations, logistics, education and other scenarios.





Customizable Functions



Behavior Recognition



Flame Detection



Gas leak detection



Thermal imaging detection



License plate recognition



Face Recognition



Nighttime Human Detection

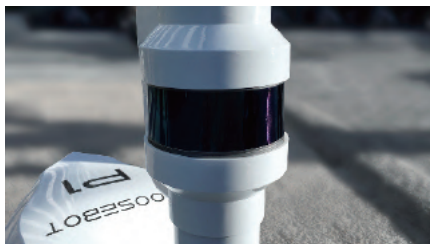


Meter Data Reading

Standard configuration



Gimbal, panoramic camera, microphone, speaker



16-line LiDAR



Power button, emergency brake button, battery display, LED lighting.



Automatic/Manual Charging



Self-developed Chassis
Self-developed Mecanum Wheels



Multifunctional Interface Panel

Robot product parameters

Dimensions (L×W×H)	68×48×120CM	Minimum Turning Radius	0.65M
Weight (including battery)	60KG	Climbing angle	15°
Cruising Range	20KM	Waterproof and dustproof grade	IP54
Chassis Ground Clearance	10cm	Work Temperature Range	-20°C~45°C
Minimum Cruise Path Width	0.9M	Autonomous-driving Cruise Speed	0~6KM/H

Cloud Platform Management

The screenshot displays the '大鹅巡逻机器人监控中心' (Goosebot Patrol Robot Monitoring Center) interface. The top navigation bar includes the 'GOOSEBOT' logo, the center title, and the date/time '2022-11-07 10:28:46' along with weather information '多云 18°C'.

The main interface is divided into several functional panels:

- 机器人 (Robot):** Shows battery level at 80%, speed at 6km/h, and a signal strength of 5. Below this are three lines of placeholder text.
- 人员识别 (Person Recognition):** Displays a face recognition comparison with a 75% match rate. It includes a photo of a person, a timestamp '拍摄时间: 2022-11-18 12:00:15', and a grid of smaller images.
- 车辆卡口 (Vehicle Checkpoint):** A table listing vehicle license plates, robot IDs, and capture times.

车牌号	车辆图片	机器人	抓拍时间
川A·88888		大鹅2号	2022-11-18 12:00:10
川A·88888		大鹅2号	2022-11-18 12:00:10
川A·88888		大鹅2号	2022-11-18 12:00:10
川A·88888		大鹅2号	2022-11-18 12:00:10
- 前摄像头 (Front Camera):** A large live video feed showing a city street scene with buildings and a bus stop.
- 左摄像头 (Left Camera):** A smaller live video feed showing a street view from the left side.
- 红外摄像头 (Infrared Camera):** A thermal image feed showing a person on a robot in a colorful heat map.
- 地图 (Map):** A schematic diagram of the robot's path or location.
- 传感器 (Sensors):** Displays real-time sensor data: 23°C temperature, 40% humidity, 0% gas, and 80dB sound.
- 实时告警 (Real-time Alerts):** A list of alerts with columns for '图片' (Image), '告警类型' (Alert Type), '时间' (Time), '机器人' (Robot), and '级别' (Level).

图片	告警类型	时间	机器人	级别
	楼内起火	2022-11-18 12:00:10	大鹅2号	严重
	草坪起火	2022-11-18 12:00:10	大鹅2号	严重
	路面排汗	2022-11-18 12:00:10	大鹅2号	中等
	垃圾乱堆放	2022-11-18 12:00:10	大鹅2号	一般
	垃圾乱堆放	2022-11-18 12:00:10	大鹅2号	一般
	垃圾乱堆放	2022-11-18 12:00:10	大鹅2号	一般
	垃圾乱堆放	2022-11-18 12:00:10	大鹅2号	一般
	垃圾乱堆放	2022-11-18 12:00:10	大鹅2号	一般
	垃圾乱堆放	2022-11-18 12:00:10	大鹅2号	一般
	垃圾乱堆放	2022-11-18 12:00:10	大鹅2号	一般

Security Patrol Robot - Large Screen Monitoring Center

Patrol Robot Management Platform

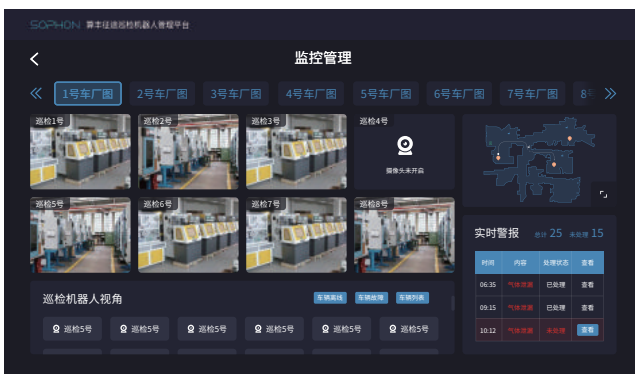
Operators can use remote control software to perform real-time monitoring of the robot's operational status, patrol task execution, live video viewing, and setting up patrol tasks for real-time video transmission.



Menu Selection



Map, Vehicle, Personnel Settings



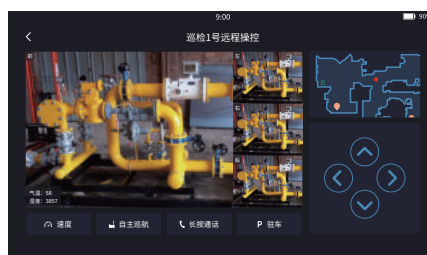
Monitoring Center



Multiple Patrol Task Settings



Autonomous Mapping



Remote Control



Vehicle Status Inquiry