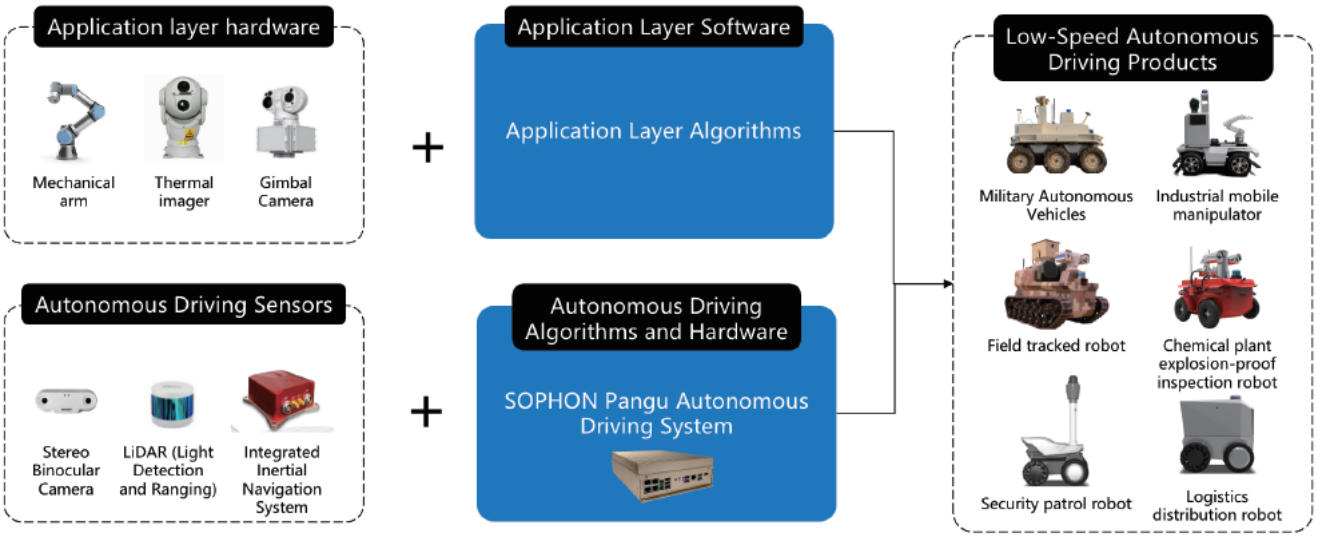
Mid-Low Speed Autonomous Driving Solutions

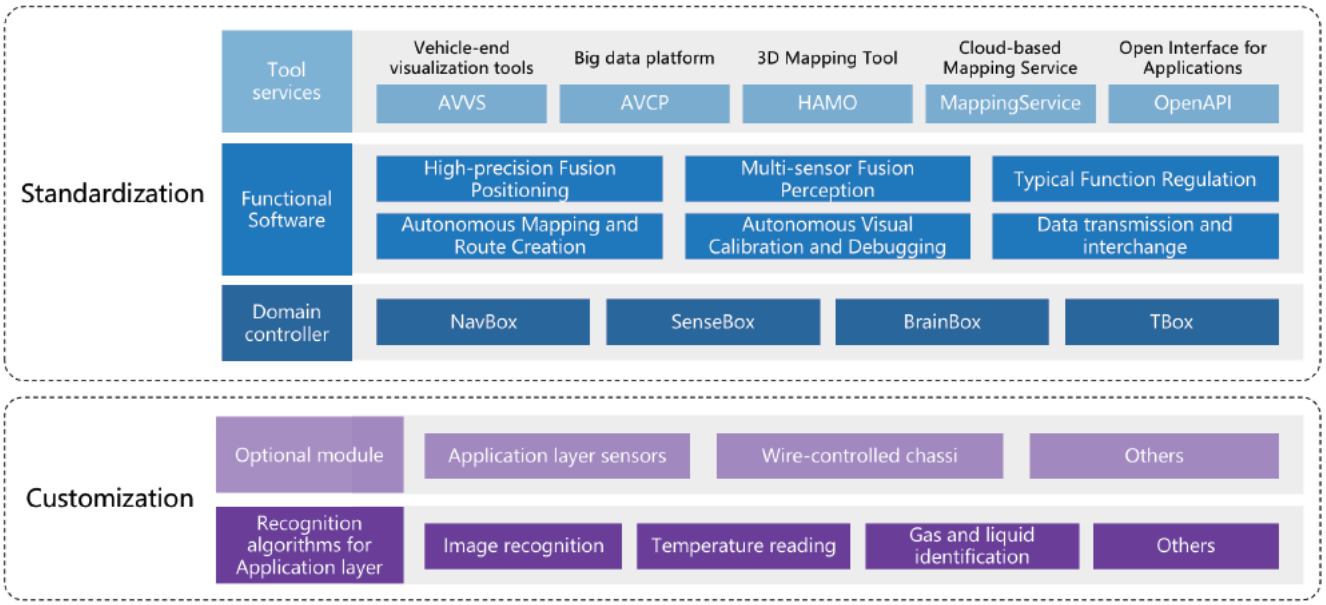
Focus on the field of middle
and low speed autonomous driving.

SOLUTION FRAMEWORK

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

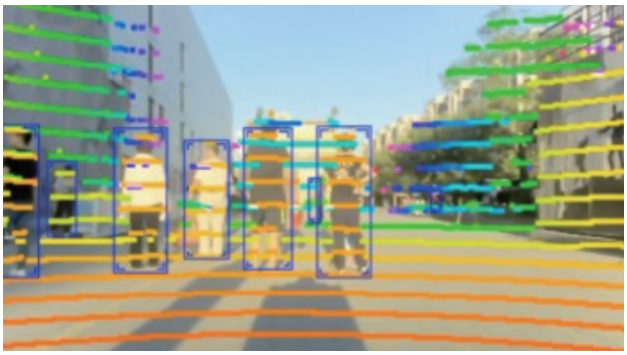


Provide "standardized + customized" integrated autonomous driving solutions.



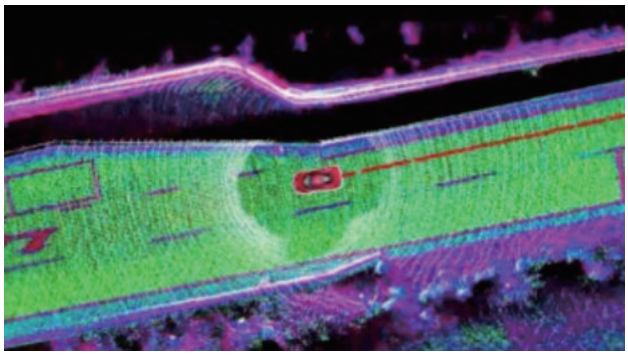
SOPHON PANGU AUTONOMOUS DRIVING SYSTEM

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



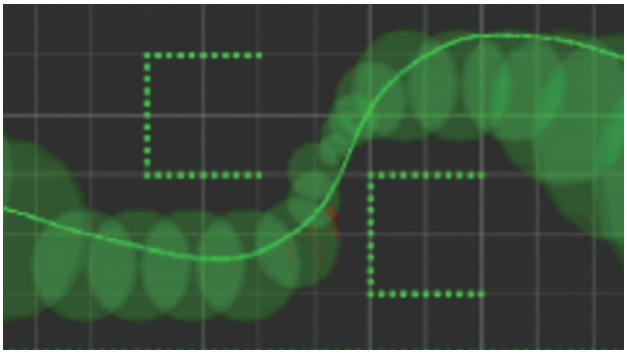
Multi-sensor fusion perception

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.



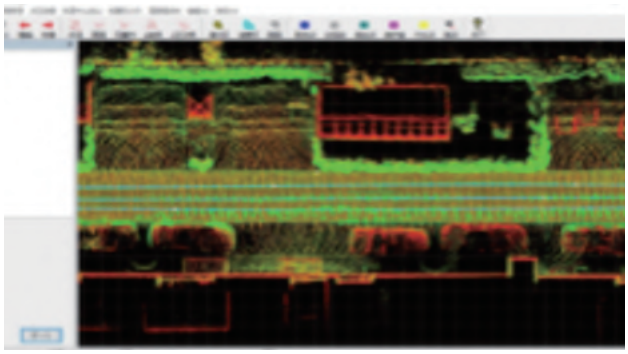
High-precision fusion positioning

Based on the precise scene reconstructionand multi-sensor fusion positioning technology, it is possible to achieve high-precision positioning in complex indoor and outdoor in dynamicworking 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-dimensionalhigh-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

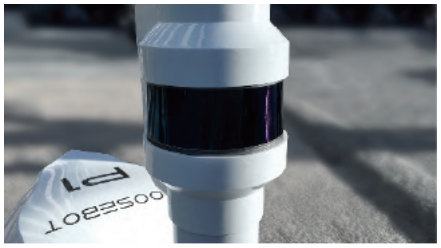
Face Recognition

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

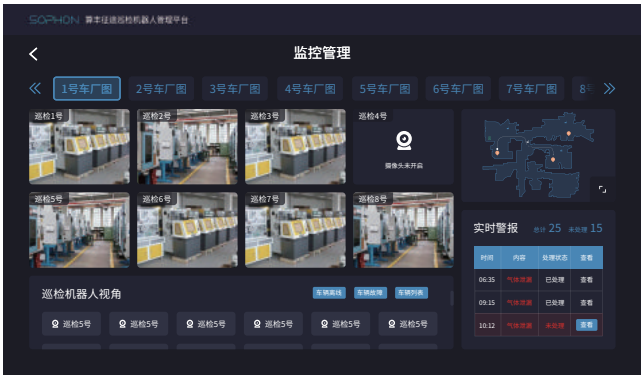
Security Patrol Robot - Large Screen Monitoring Center

Patrol Robot Management Platform

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

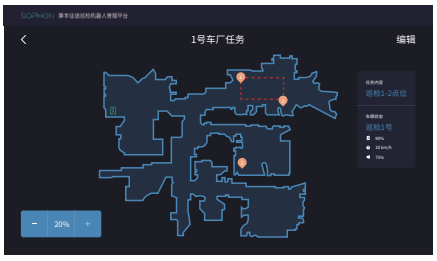
Menu Selection

Map, Vehicle, Personnel Settings



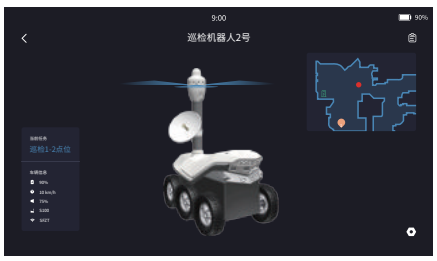
Monitoring Center

Multiple Patrol Task Settings



Autonomous Mapping

Remote Control



Vehicle Status Inquiry