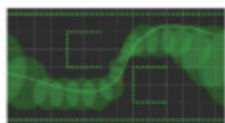# CORE TECHNOLOGY

Self-developed Unmanned Driving System」

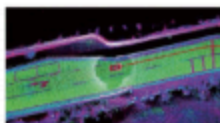Park level L4 low speed unmanned, indoor and outdoor full coverage

MULTI-SENSOR FUSION PERCEPTION

Utilizing multiple types of sensing sensors, deep learning algorithms are used for pre and post fusion processing of heterogeneous information, achieving 360° coverage with no blind spots in both indoor and outdoor scenarios, accurately perceiving small targets as small as 7cm in size.

HIGH PRECISION FUSION POSITIONING

Based on precise scene reconstruction results and multi-sensor fusion positioning technology, it is possible to achieve high precision positioning in complex indoor and outdoor scenarios, with an average accuracy of 5~10cm.
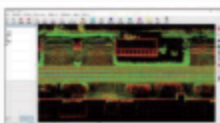
TYPICAL FUNCTION PROGRAMMING AND CONTROL

Supports behavior planning, motion planning, and control under typical functional conditions and typical chassis. Can be customized for special product applications, while also providing open sensor, perception, and positioning interfaces for user secondary development.

3D HIGH-PRECISION MAPPING AND MAPPIN

Support user self-collection of data for mapping. Through cloud-based 3D scene reconstruction with full working conditions, the reconstruction accuracy can reach 5~10cm; the mapping efficiency for typical park scenarios is about 2 hours to complete.

AUTONOMOUS MAP CONSTRUCTION
Simple simple-to-use, 1 hour quick drawing

FUSION PERCEPTION
Laser radar, binocular camera, ultrasonic radar

AUTONOMOUS OBSTACLE AVOIDANCE
Pedestrians, vehicles, etc

FUSION LOCATIONING
Indoor and outdoor access, not dependent on GPS and Beidou

PRODUCT INTRODUCTION

A self-developed indoor and outdoor all-domain coverage delivery robot specifically solves the "last kilometer" problem of autonomous door-to-door delivery, empowering industries such as courier operations, property management, and takeout industry.

PRODUCT PARAMETERS

HARDWARE CONFIGURATION

PRODUCT PARAMETERS			
Dimensions	6T×55×70CM	Maximum load capacity	50kg
Weight	75KG	Storage space	30L
Obstacle clearance height	10CM	Beverage capacity	12瓶
Maximum speed	1.6m/s	Body color matching	灰、黑
Endurance time	6h	Water and dust resistance	IP65

APPEARANCE DIMENSIONS

All measurement values are in millimeters. Dimensional drawings are for reference only, and appearance configuration may vary from actual product sold.

DELIVERY PROCESS

1. Online ordering
2. Merchant preparation
3. Outdoor autonomous driving
4. Intelligent avoidance
5. Indoor autonomous elevator riding
6. Door-to-door delivery notification
7. Open the box for the goods
8. Return to the store

OPERATIONAL END

DISTRIBUTION END - MERCHANT

CLIENT - BUYER

PRODUCT FEATURES

Unmanned 1-to-N Precision Delivery

Mobile Phone Mini Program Ordering

IoT Elevator Autonomous escalator

Smart Door Control

Autonomous charging

720° Surveillance Real-time Dynamic Tracking

Drop detection

Compact and Flexible High Passability

Low Maintenance Costs

APPLICATION SCENERY

Commerce Park

Campus

Community

Airport

Hospital