

PRODUCT INTRODUCTION

产品介绍

产品—智能农业

无人运输车
Agricultural unmanned vehicle



| 技术指标Technical Specification | |
|-----------------------------|----------------|
| 设备尺寸 Dimension | L160xW80xH80cm |
| 防护等级 Robustness | IP56 |

FUNCTION

功能特点

可更换末端执行机构

通过替换夹爪/吸盘等多类执行机构

- 1.可适应不同形态的蔬果采摘需求
- 2.可适应不同园艺作业需求,例如采摘、套袋、授粉等

REPLACEABLE END ACTUATOR

By replacing multiple types of actuators such as grippers/suction cups

- 1.It can meet the requirement of different forms of fruit and vegetable picking
- 2.It can meet the needs of different gardening operations, such as picking, bagging, pollination,etc.

多种行走和驱动形式

支持履带式/轮式等多种驱动底盘

可适应果园、大棚、田地等多类地形

MULTIPLE WALKING AND DRIVING FORMS

Support multiple drive chassis such as crawler type/wheel type

It can adapt to orchard, greenhouse, farmland and other types of terrain

无人运输车，是一款全自主导航的农产品运输车，独创核心技术可实现田间重物搬运、农产品运送等功能。It is a fully autonomous navigation of agricultural products transport vehicle with original core technology accessible to heavy handling, agricultural products transport and other functions.

人工智能深度学习技术
Artificial Intelligent Deep Learning Technology

利用成像系统对周围环境进行感知，“看到”水果作物，并实时了解果实状态以及是否成熟、计算水果数量。
The imaging system is used to perceive the surrounding environment, “see” fruit crops, understand the fruit situation and maturity in real time and calculate the number of fruits.

自主定位导航
Autonomous positioning and navigation

搭载乔戈里智能控制系统，双目视觉与RTK导航相结合，智能规划行驶路线，实现全自动化作业。
Equipped with K2 intelligent control system, combined with binocular vision and RTK navigation,the vehicle enables to intelligently plan the driving route and realize fully automated operation.

多传感器融合技术
Multi-senso Fusion Technology

通过算法加以自动分析和综合，获取果实机器人实时定位，防撞信息及果实信息。
Through the automatic analysis and synthesis of the algorithm, robot real-time positioning, collision avoidance information, and fruit information is obtained.

机械臂控制技术
Manipulator Control Technology

基于视觉系统反馈的果实与环境信息，机械臂实时规划运动路径，引导末端执行机构到达果实的实际位置。
Based on the fruit and environment information fed back by the visual system, the robot arm plans the motion path in real time to guide the end effector to the actual position of the fruit.

自主定位导航
Autonomous positioning and navigation

搭载乔戈里智能控制系统，可根据场景分别选择视觉/RTK/激光导航或组合，智能规划行驶路线，实现全自动化作业。
Equipped with the K2 intelligent control system, visual/RTK/laser navigation or combination can be selected according to the scene, intelligently planning the driving route, and achieving fully automatic operation.

智能感知避障
Intelligent Perception Obstacle Avoidance

前置超声避障，准确感知前方障碍物，辅助急停按钮，实现安全可靠运动控制。
With front ultrasonic obstacle avoidance to accurate perception of obstacles in front, installed with a auxiliary emergency stop button, the vehicle achieves safe and reliable motion control.

便捷操作
Convenient Operation

智能化显示行驶路线及运行状态，实现双手操控，一键操作。
The vehicle intelligently displays the driving route and running status, and realizes two hand control and one key operation.

拓展功能
Function Expansion

运输物资，喷洒作业，自主巡检，农业设备牵引，整地割草等。
Transportation of materials, spraying operations, self inspection, agricultural equipment traction, land preparation and grass cutting, etc.