FJDynamics

FJD Autosteering Kit

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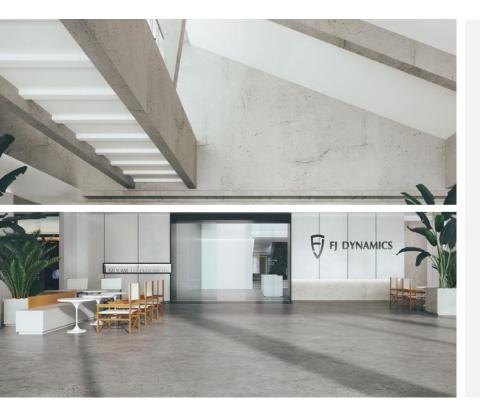


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FJDynamics (FJD) is a global robotics company focusing on AI, cutting-edge technologies, advanced manufacturing, and strong R&D. As well as the smart management solutions provider for various industries based on Digital Modeling technology. We are aiming to provide a full set of smart solutions for industries such as construction, port, logistics, agriculture, mining, hospital, environmental sanitation, and etc. to help you grow your business.

Background Introduction

In recent years, agricultural science and technology have continuously developed and production efficiency has been continuously improved, but agricultural machinery still depends on manual control. Limited by visibility, control accuracy, and human resources, agricultural machinery controlled by humans cannot achieve 100% work efficiency.

The world's agricultural industry needs a product like this:

- \checkmark Get rid of manual control on agriculture vehicles
- ✓ Working accuracy beyond human limit
- ✓ Working time beyond human limit
- ✓ Smart agriculture maximizes economic benefits Therefore, FJD Autosteering Kit is coming.



Introduction of FJD Autosteering Kit

FJDynamics Autosteering Kit is the pioneer autonomous driving system in the world, which can be installed onto agrivehicles to have a straight driving assistance and can be upgraded to autonomous driving.

This system can not only control the steering to assist driving, but also realize the autonomous driving by controlling the vehicle's throttle, brakes, clutches, gearbox and operation section.



Advantages of FJD Autosteering Kit

Cut the Cost

FJD can quickly recover costs by reducing crop inputs, labor and maintenance costs.



Make Your Own Vehicles Smarter

Our designed FJD Autosteering Kit can be used with old and new vehicles.



Easy to Use

FJD Autosteering Kit is really easy to buy, install and use. You can install it yourself within one hour.



Less Time with More Production

FJD provides a recognized automatic steering production efficiency, so that you can spend less time to complete more work on the agriculture machines.

Top Features of FJD Autosteering Kit



Working accurately in any kind of environment, high operation accuracy of up to 2.5 cm.



Applicable to various brands of agricultural vehicles, which covers plenty of applications and improves working environment.

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Obstacle detection, alarm and avoidance function when equipped with millimeter-wavelength radar.

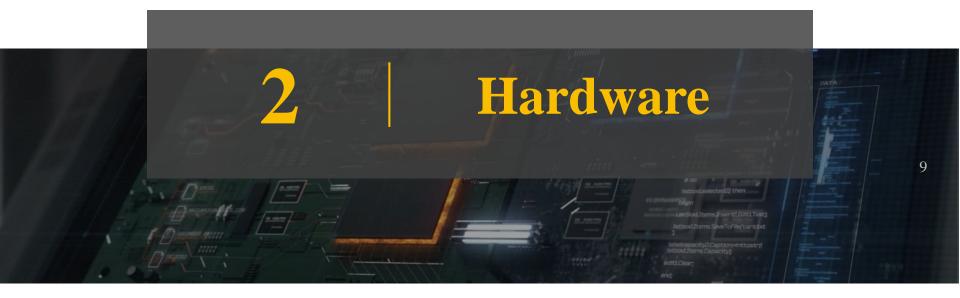


Remote Monitoring by Big Data Platform.

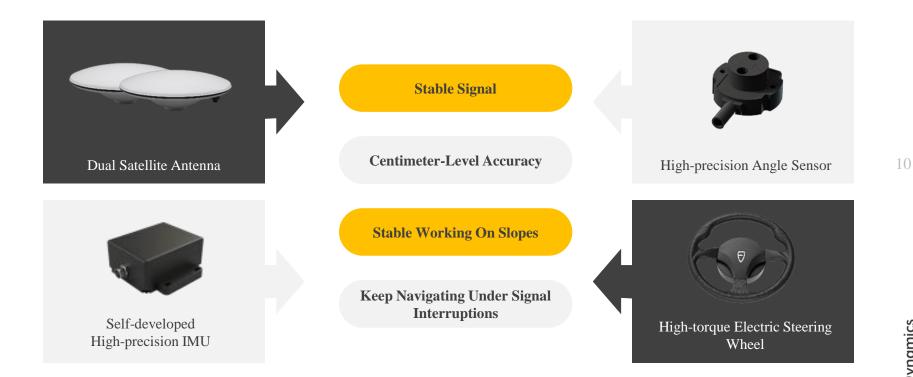
User-friendly visualization interface.



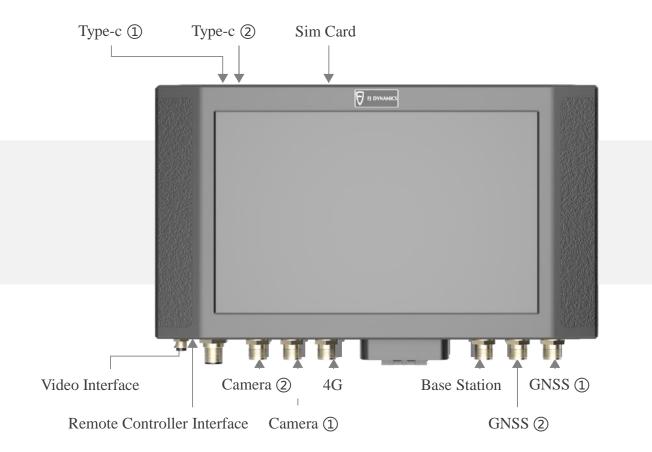
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Reliable Hardware Ensures Working Efficiency



Various Expansion Connecting Ports

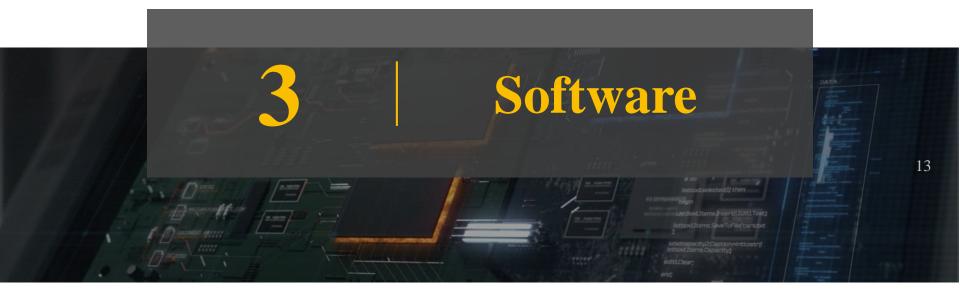


FJD Base Station Service

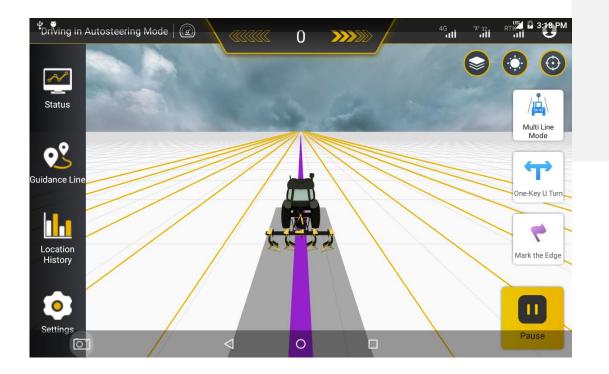


Portable RTK Base Station

- Optional for farmers without local NTRIP providers.
- Your own free RTK signal.
- Provides the highest accuracy of up to 2.5 cm.
- Transmits RTK correction via radio and Internet with radius 10km.
- Works with unlimited number of receivers.
- Can be freely shared with your neighbors.



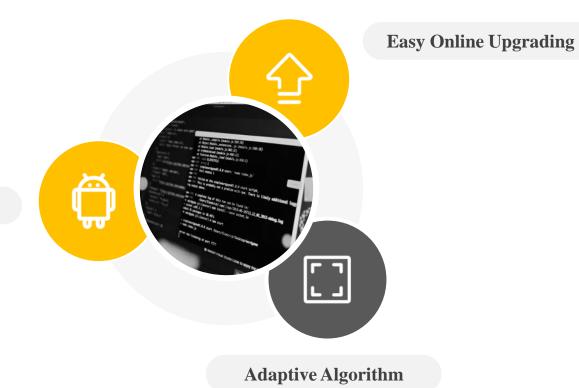
Ergonomic Interface



- Visualized interface.
- High precision parallel line can be achieved.

Advanced Software Base

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Android System

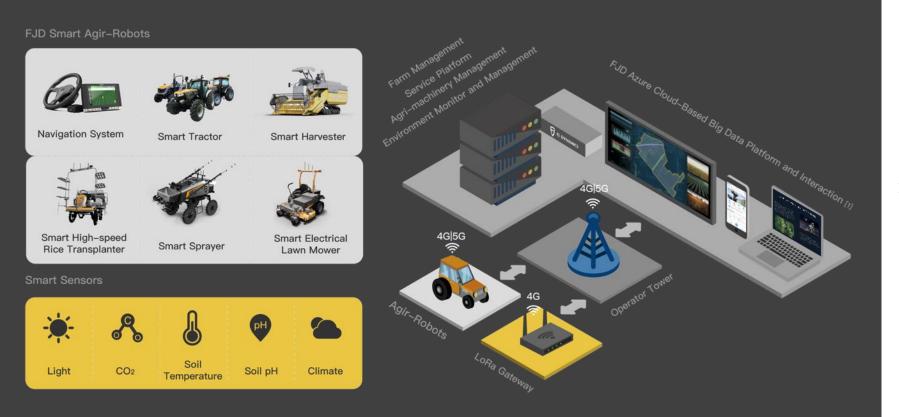


Data Collecting, Analysing and Tracking



- Collect data from the whole operation process by the smart agri-robots.
- Track outcomes of crops during production operations.
- Produce high-quality, highly transparent, traceable agricultural products.

Comprehensive Operation Monitoring + Ecological Big Data Platform



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Check Operation Status from Home via Screen



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With further upgrading, FJD Autosteering Kit can achieve the fully autonomous driving by controlling the vehicle's throttle, brakes, clutches, gearbox and operation section.









Safety is always the first priority for autonomous driving. According to the **Semi-Autonomous Mode** and **Fully Autonomous Mode**, there are two obstacle avoidance modes.

Semi-Autonomous Mode

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Obstacle Alarm: When obstacle detected, there will be sound alarm to ensure safety.

Fully Autonomous Mode

• **Precise Action:** Based on the strategy, the system could control the vehicle's brakes and stop automatically at obstacles.



Working Scenarios with FJD Autosteering Kit



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