FJDynamics

FJDynamics Autosteering Kit

- **ISOBUS Control Solution**

  FJD ISOBUS control solution is a compatible application control that allows software, vehicles and implements to communicate with each other.

- **Terrain Compensation**

  Autosteering Kit uses a IMU sensor to calculate the actual position of the vehicle to help minimize skips and overlaps in areas with rolling terrain, slopes, and rough ground.

- **U-turn Auto-driving**

  The kit automatically identifies the field edges and makes path planning after importing datum lines. When the vehicle reaches a turning point, the operator only needs to step on the brake, then the vehicle is able to automatically turn around without any manual operation.

- **AI Vision-based Precision Farming (optional)**

  - Industry's leading sensor-fusion technology by combining RTK and vision.
  - Vehicle guidance using vision-based deep learning, crops and weeds could be differentiated as using vision-based deep learning to reduce the use of fertilizer and herbicide while maximizing yields.

- **Remote Control & Unmanned Mode (optional)**

  Long-distance wireless remote control and obstacle avoidance enables vehicle to be controlled remotely or to enter fully autonomous mode.

- **Centimeter-level Positioning**

  Using satellite signals for precise positioning, the kit can automatically adjust the vehicle's travel direction. Operation accuracy is up to 2.5cm.

- **Extensive Adaptability**

  The kit is suitable for various brands of agri-machines and all fieldwork operations.

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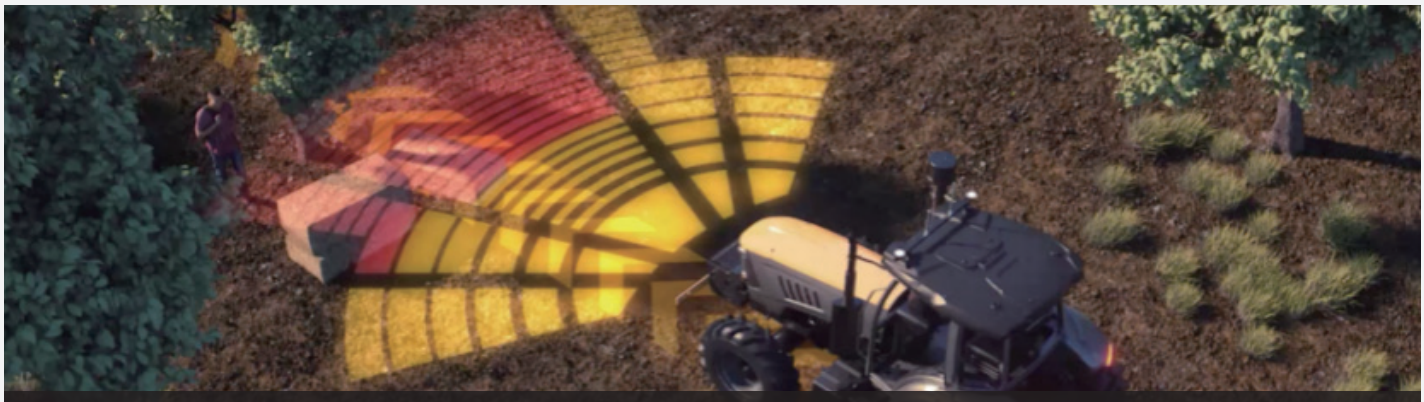
AI Camera

Unit	Spec.
Model	FJ-A100
Dimension	198mm*100mm*75mm
Weight	812g
Working Temperature	-20°C~70°C
FOV	Horizontal 87.5，vertical 47.5
Upgrade	OTA
Light Detection	√
Online Maintenance	√



In remote control and unmanned modes, millimeter-wavelength radar is activated to identify obstacles and raise the alarm in real time.

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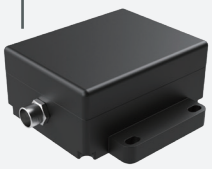
Control Terminal

GNSS Antenna

Electric Steering Wheel



Sensor Modules

Working Scenarios

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Item	Unit	Spec.
Control Terminal	Size	300 × 190 × 43mm
	Screen	10.1-inch LCD screen with LED backlight
	/	1280 × 800 pixels
	Power Supply	10V ~ 30V
	Network Module	4G, compatible with 2G / 3G
	Waterproof and Dustproof	IP65
	Operating Temperature	-30 °C ~ + 75 °C
	Storage Temperature	-40 °C ~ + 85 °C
Angle sensor	Waterproof and Dustproof	IP67
	Operating Temperature	-40 °C ~ + 85 °C
IMU	Power Input	5V
Electric Steering Wheel	Power Input	12/24 VDC
	Operating Temperature	-20 °C ~ + 70 °C
	Storage Temperature	-55 °C ~ + 85 °C
GNSS Antenna	Frequency	GPS L1 / L2, GLONASS L1 / L2, BDS B1 / B2 / B3
	Operating Temperature	-40 °C ~ + 85 °C
	Storage Temperature	-55 °C ~ + 85 °C

FJDynamics Autosteering Kit

The pioneer navigation system for autonomous driving in the world

High compatibility to various types of agricultural vehicles

Centimeter-level positioning accuracy up to 2.5 cm