

An aerial photograph of a vast agricultural landscape. A central canal runs through the middle of the field, which is divided into long, straight rows of crops. The crops appear to be in a late stage of growth or harvest, with some showing yellow and brown hues. In the background, a large wind farm with numerous white turbines is visible against a clear blue sky. The overall scene is well-organized and shows a blend of traditional agriculture and modern renewable energy.

eSteer 10

Auto Steering System

System introduction

The **eSteer 10** system features an all-in-one controller that integrates a 4G module, IMU sensor and GNSS module, making it easy to install and transfer between vehicles. No additional wheel angle sensor is required for the eSteer 10, further enhancing its ease of installation.



System introduction

The system provides industry-standard RTK accuracy and features a combined GNSS and INS terrain compensation technology that ensures 2.5 cm pass-to-pass accuracy, even in difficult agricultural landscapes. Such accuracy and precision are valuable for a variety of farming activities such as trenching, planting and harvesting. By eliminating overlap and skips, the eSteer 10 system saves fuel, seed and time while increasing yields.



System introduction

performance

Support 0.2~25KM/H speed of high-precision operation, can achieve ± 2.5 CM accuracy, covering the full operation speed range, such as seeding, spraying, ditching, land preparation and other operations;

Vehicle type support

Supports a wide range of vehicle types, including front-wheel steering, rear-wheel steering, articulated and tracked;

operation

The software is easy to operate, and the common functions can be completed in 2 steps; Users can get started quickly and reduce the learning cost of users;

Job mode

Support a variety of operation modes (AB line, A+ line, curve, circular curve, irregular rake line, 90 degree line) to meet various operation scenarios;

Installation and debugging

Easy installation and debugging, one-click debugging, installation and debugging completed within 30 minutes;
The system is easy to operate, one-button power on/off;

Expand functionality

Support ISOBUS agricultural tools;
Support the rapid expansion function of external radio stations;
Support non-contact angle sensor expansion function;

Components Introduction

01. Receiver



1. Integrates a 4G module, IMU sensor and GNSS module
2. Equipped with a high-performance GNSS engine. It is now capable of tracking a greater number of satellites.
3. IP65 protection.

Components Introduction

02. Display



1. Tablet computer equipped with the Android OS, it is user-friendly and expandable.

2 Standard Bluetooth and Wi-Fi, making it easy to connect to the internet

IP65 protection, not afraid of rain and water splash;

2. 750nit screen, not afraid of direct sunlight, clearer display;

Components Introduction

03. Electric Steering Wheel



1. Diameter 410mm, thickness 87.5mm more comfortable size, more comfortable control;
2. IP65 protection level, no fear of rain and water splash;
- 3, large torque, fast response;
4. Large angle into the line, small angle adjustment is also sensitive;

Components Introduction

04. Camera



1. IP65 protection level, no fear of rain and water splash;
2. 120 degree viewing angle, can monitor the operation process of agricultural machinery at any time;

Components Introduction

05. Extensible functionality

■ Rx Radio



1. Small form and easy installation;
2. Support TT450,, transparent protocol;

■ ISOBUS UT



1. Provide high-definition interactive interface;
2. ISOBUS tools can be operated while navigating;

■ Wheel Angle Sensor



1. Non-contact angle sensor, easy to install;
2. Improve the effect of extreme environment operation;

Values

- Reduced overlaps and skips.
 - Increased accuracy benefiting multiple farming operations in a crop production cycle.
 - Reduced operator stress and fatigue.
 - Ability to work in poor visibility conditions, like working at night.
 - Improved farming efficiency and productivity.
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Applications





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