

AG960



Hydraulic Drive Autosteer System

Overview

The AG960 hydraulic drive Autosteer system is an autopilot solution for agricultural machinery. It includes a Global Navigation Satellite System (GNSS) receiver integrated with a precision agriculture automation system. By integrating the high-precision navigation receiver and automation software, the system enables agricultural machines to operate in accordance with pre-planned paths and tasks.

The AG960 hydraulic drive Autosteer system includes a GNSS antenna, a vehicle display panel, a high-precision positioning receiver, hydraulic valve, and angle sensors. An automated vehicle controller employs precise GNSS guidance information to hydraulically steer agricultural machinery. This enables agricultural machines to automatically drive along set routes and execute planned tasks, which can be monitored on graphical displays.



Key Features

Improved operation and agricultural precision

Improved agricultural productivity and profitability

Easy to use and applicable to each working cycle of agriculture, such as soil tillage, plow, ditch, ridge, seed, spray and harvest

In the Box

- 1 x Autopilot (controller)
- 1 x Panel computer
- 2 x GNSS antennas
- 1 x Coaxial rotation direction sensor
- 1 x Electromagnetic hydraulic valve
- 1 x Radio receiver antenna mast/pedestal
- 2 x RF cables (3m)
- 1 x Data harness (white end harness)
- 1 x Autopilot (controller) adapter plate
- 1 x Computer panel bracket
- 1 x Coaxial rotation direction sensor bracket
- 1 x Hydraulic valve adapter plate
- Other: screws & nuts bag, insulating tape, strapping tape, double-sided adhesive tape, etc.



Technical Specifications

Performance

Steering Mechanism/Actuators:	Hydraulic valve
Frequencies:	GPS L1/L2, GLONASS L1/L2, BeiDou B1/B2, Galileo E1/E5b
RTK Positioning Accuracy:	
– Horizontal:	≤1cm
– Vertical :	≤2cm
Attitude Determination:	
– Yaw Angle:	≤1°
– Pitch/Roll Angle:	≤0.5°
Observation Accuracy:	
– C/A Code (zenith direction):	10cm
– P Code (zenith direction):	10cm
– Carrier Phase (zenith direction):	1mm
Update Rate:	1Hz/5Hz/10Hz
Guidance Line Deviation:	≤2.5cm
Application:	Plow, ditch, ridge, seed, spray, harvest
Machinery applicable:	Medium to large size
MTBF:	1,000 hours
MTTR:	2 hours

Communication

	HSPA+/UMTS/GSM/GPRS
	433/915MHz
Operating Range (Radio):	≤20km

Physical

Power Consumption (typical):	≤90 W
	12V battery (agricultural machinery)
Weight:	≤22 kg
Operating Temperature:	-10°C ~ +70°C

