SPECIFICATIONS

GNSS Receiver

RTK Positioning Accuracy (RMS)

Horizontal: 8 mm + 1 ppm
Vertical: 15 mm + 1 ppm
Initialization Time: <5 s (typical)
Initialization Reliability: >99.9%
First Fix Time: <30 s

Constellation

BDS, GPS, GLONASS, Galileo,
QZSS, SBAS, L-band

Frequency Bands

BDS: B1I/B2I/B3I/B1C*/B2b*
GPS: L1C/A/L2P(Y)/L2C/L5
Galileo: E1/E5a/E5b/E6*
GLONASS: G1/G2
QZSS: L1C/A/L2C/L5 SBAS: L1C/A

Tablet Display

LED Display

10.1 inches
1280 x 800 p
750 nits

I/O Interface

DI * 2, DO * 2
USB 2.0 * 1
12 V DC output * 2

System

8-core, 2 GHz
2 G RAM
32 G ROM
Android 12.0

Steering and Control Section

Data Interface

CANBUS
RS232
AD conversion

Electrical Parameters

Motor Voltage Supply Range: 9–36 V DC
Communication Protocol: MODBUS

Physical Performance

Peak Torque:9 N•m
Dimensions: Diameter: 181.5 mm
Height: 60.4 mm
Weight: 2.8 kg
Operating Temperature: -20 to +70 °C
Storage Temperature: -40 to +85 °C
Exterior Material: Aluminum alloy
Rated Speed: 100 rpm

GNSS Receiver

Tablet Display

*Optional

Steering and Control Section

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ALLYNAV

AF305

Automated Steering System

An Advanced Steering Solution for Precision Agriculture

WHY CHOOSE THE ALLYNAV AF305 AUTOMATED STEERING SYSTEM?

0.1 km/h
MIN SPEED 0.1 KM/H

PATH PLANNING

PRECISION ACCURACY OF ±2.5 CM

ISOBUS
ISOBUS COMPATIBILITY

GIS INFORMATION TRANSFER

PPP RTK
PPP-RTK

VRS

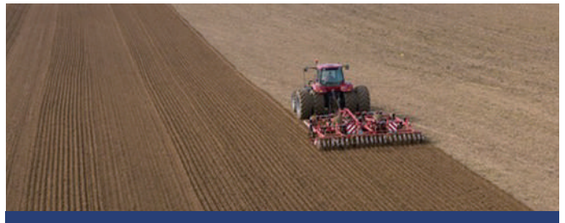
TERRAIN COMPENSATION

CORE APPLICATIONS

PRECISION PLANTING

EFFICIENT SPRAYING

HARVESTING



TILLAGE AND SOIL PREPARATION

FEATURES

Easy To Use

The integrated motor-driven steering wheel design ensures quick and easy installation and removal. The user-friendly interface gets you up and running within 20 minutes.

Automated and Smart Control

The app allows real-time path planning, including turns, straight lines, and curves. It enables quick farming tool alignment and real-time remote monitoring for precise autosteering that saves time and increases efficiency.

Extensive (ISOBUS) Compatibility

When different farming tools with appropriate hardware modules are installed under the ISOBUS, the farming processes from tilling to harvesting are improved. Built-in high-precision terrain compensation brings optimal performance on complex terrains with just one machine.

Advanced Correction Services

A robust antenna guarantees excellent signal stability in conditions with unreliable signal. Enjoy accurate operation with up to ±2.5 cm precision using multiple correction services such as PPP, VRS, RADIO, and PPP-RTK without needing a base station.

Worry-Free Autosteering

You can operate confidently and efficiently by relying on our market-proven technology backed by 24/7 remote support from a globally deployed service network.