



N600

GNSS Auto Steering System

NST® N600™ Auto Steering System revolutionize farming efficiency with high-tech driven precision. This advanced system delivers centimeter-level accuracy using GNSS-RTK navigation, enabling automated field operations like plowing, seeding, and harvesting. This system features intelligent path optimization, multi-machine coordination, and adaptive terrain handling for 24/7 productivity. It is able to cut fuel costs by 30%, reduce human error by 95%.

PRECISION NAVIGATION & AUTO-PATH PLANNING

Achieve centimeter-level accuracy with our advanced GNSS-RTK technology. The N600 autonomously maps fields and optimizes routes to eliminate overlaps and gaps, ensuring maximum coverage and efficiency. Farm smarter, not harder.

U-TURN FUNCTION

This system ensures smooth, automated end-row turns for tractors, enhances operational agility, and saves your energy while maintaining uninterrupted workflow in daily farming. By intelligently managing turn precision and path alignment, it minimizes downtime and maximizes field coverage efficiency.

PPP FUNCTION

PPP is short for precise point positioning. PPP technology accurately models satellite positioning errors and broadcasts them to users, eliminating the dependence on the Internet for data transmission. Users can also obtain accurate positioning results through satellite links.

ISOBUS

Control mixed implements via one terminal with universal ISO 11783 compatibility. Say goodbye to tangled cables and long setup times. Get real-time diagnostics and connect equipment from multiple brands into one smooth, plug-and-play system.

HIGH COMPATIBILITY

Compatible with most tractor brands on the market, it can be easily installed and works perfectly on your favorite tractor.

Features

- 10.1-inch touch screen
- Android 10 operating system
- High-torque motor wheel
- All-in-one GNSS receiver
- RTK accuracy $\pm 2.5\text{cm}$
- PPP function
- Path import from other brand's devices
- Terrain compensation
- NMEA data transfer
- Smart U-TURN
- ISOBUS



N600 GNSS Auto Steering System

Tablet	
Screen Size	10.1 inches
Resolution	1024*600 px
Normal Brightness	450 nits
Touch Mode	Capacitive touch screen, and anti-glare
Memory	2G(RAM)+16G(ROM)
Processor	On-board chip 64-bit quad-core ARM Cortex-A53
Operating System	Android 10
Signal	WiFi / Bluetooth 4G full network access 1*standard SIM card slot 1*built-in e-SIM card
Input Voltage	9~36V, supports overvoltage, undervoltage, and reverse connection protection
Communication Interface	Supports 2-way RS232/CAN 1*USB 2.0*1, 1*Micro USB
Other Interfaces	Main data interface: 14 Pin External camera interface: 4 Pin USB interface: 1*USB
Storage Temperature	-30 C ~ 80 C 0% ~ 90%RH
Working Temperature	-20 C ~ 70 C 0% ~ 90%RH
IP rating	IP65

High Torque Motor	
Power Input	9 ~ 32V DC
Motor Type	Torque motor
Torque	5 N·m @ 30 RPM (DC 12 V)
Maximum Speed	100rpm
Working Temperature	-30 C ~ 70 C
Storage Temperature	-40 C ~ 85 C

Smart GNSS Receiver	
Material	Aluminum alloy + Engineering plastics
Signal	GPS: L1C/A,L1C,L1P,L2C,L2P,L5 BDS: B1I,B2I,B3I,B1C,B2a,B2b GLONASS: G1,G2 Galileo: E1,E5a,E5b,E6 QZSS: L1C/A,L1C,L2C,L5 SBAS
Board Data Rate	Maximum 20Hz
Positioning Accuracy (RTK)	Horizontal positioning accuracy: 0.8cm+1ppm Vertical positioning accuracy: 2cm+1ppm
Heading Accuracy	0.1° RMS with 1 m baseline
Speed Measurement Accuracy	0.03m/s (RMS)
Initialization Time	< 5s (Typical value)
Cold Start	< 30S
Data I/O Protocol	NMEA 0183 NMEA 2000 SAE J1939/ISO11783
Power Data Interface	14-pin interface RS232/CAN 2 channels each
WiFi	IEEE 802.11b/g/n
4G Communication	Support dual 4G modules
Working Temperature	-30 C ~ 70 C
Storage Temperature	-40 C ~ 85 C
Vibration Testing	EP455 5.15
IP Rating	IP 67

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