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NX300

AUTOSTEERING SYSTEM

PRECISION AGRICULTURE

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ACCURATE PASS TO PASS AUTOSTEERING

The NX300 system leverages GNSS RTK technology to provide consistent and reliable centimeter steering accuracy throughout the farming seasons. It offers reliable automated steering performances to farmers striving for high-accuracy results in ditching, planting, fertilizing and harvesting applications. The NX300 console features an industrial anti-glare touch screen and runs the embedded AgNav software to achieve quick setup of the tractor, plow setting and multiple operating choices.

EASY-TO-USE, EASY-TO-OWN

Intuitive AgNav Software

The NX300 Console supports a variety of operating modes, including AB straight line, A+ straight line, circular line and irregular curve to match all common farming operations. The intuitive AgNav software improves the user experience from all aspects.

REALLY COST-EFFECTIVE

Turnkey solution with no hidden cost.

The NX300 system integrates an inertial navigation module (IMU), high end professional GNSS RTK positioning engine, 4G and UHF modems and a steering controller into a single unit to make the installation seamless.

2.5 CM PASS TO PASS ACCURACY

Multi-constellation GNSS RTK

The NX300 makes complete use of all available GNSS signals and dual GNSS antenna technology to provide outstanding heading and positioning accuracy for autosteering. Centimeter accuracy remains available and reliable even in harsh environment.

MULTIPLE RTK CORRECTIONS SOURCES

Integrated UHF, and 4G modems - optional RTX© support

Really versatile, the NX300 system can seamlessly operate with any GNSS RTK base station and RTK networks thanks to its embedded UHF and 4G networks modems.

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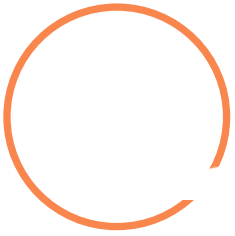
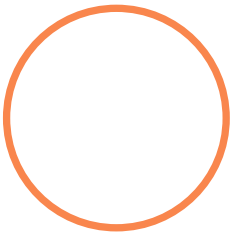
ALL-IN-ONE AUTOSTEERING SYSTEM

Steering Controller
Highly integrated design
for easier installation



Antenna
Rugged to match
harsh operating environments.



Angle Sensor
Non-contact design
to simplify installation.

Electric Wheel
High rotating speed
achieves fast matching the line.

SPECIFICATIONS

Positioning Accuracy	
Real time kinematics (RTK)	Horizontal: 8 mm + 1 ppm RMS Vertical: 15 mm + 1 ppm RMS Initialisation time: < 10 s Initialisation reliability: > 99.9%
Velocity accuracy	Horizontal: 0.007 m/s RMS Vertical 0.020 m/s RMS
Performance(1)	
Linear autopilot deviation	≤ ±2.5 cm
Curve autopilot deviation	≤ ±10 cm
Straight line spacing deviation	≤ ±2.5 cm
Physical	
External power	9 V DC to 36 V DC
Environment	Operating: -20℃ to +70℃ Storage: -40℃ to +85℃
Electrical Steering Wheel	
Power input	9 V DC to 36 V DC
Torque	10 N·m
Wheel diameter	410 mm
Motor height	87.5 mm
Display	
Display	10.1'' touch screen, 281x181x42 mm Android 6.01 Dust and Waterproof: IP65

Rear Camera	
Pixel	658 x 462 pixels
Camera angle of view	120°
Communication and Data	
4G Network modem	Integrated in control box and in display
Protocols	RTCM 2.x, RTCM 3.x CMR, CMR+ input NMEA 0183 output
NMEA output	1/2/5/10 Hz
UHF Modem (2)	Protocol: CHC, Transparent and TT450S
Input and output interfaces	2 × external GNSS connector 1 × UHF antenna connector 1 × 4G antenna 3 x LEDs (power, satellite, RTK correction) 1 x Radio Channel display

*All specifications are subject to change without notice.
(1) Accuracy and performance specifications may be affected by multipath, satellite geometry and atmospheric conditions. Performances assumes a minimum of 5 satellites in view. Apply recommended general GNSS practice. (2) UHF is an option and UHF type approvals are country specific.