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ADVANCED AUTOMATED STEERING SYSTEM

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HIGH ACCURACY GNSS RTK + RTX[™] AUTOMATED STEERING

The NX510 Pro is an automated steering system, that easily retrofits many types of new and old farm tractors and other vehicles with a compact, up-to-date and all-in-one solution at a price every farm can afford. It provides significant productivity gains, works in all visibility conditions and reduces operator fatigue.

The NX510 Pro uses the latest generation integrated guidance controller which is easier to install to avoid wasting precious time in the field. In addition, it can be easily transferred from one tractor to another, offering unmatched flexibility. The guidance controller with full GNSS constellations and RTX[™] compatibility provides increased accuracy for optimal navigation reliability, even in locations where no RTK GNSS networks or UHF base stations are available.

The combined GNSS+INS terrain compensation technology ensures hands-free driving accuracy to within sub-inch and provides superior performance in ditching, planting and harvesting applications.

MULTI-CONSTELLATION TRACKING+L-BAND Compatible with GNSS RTK and RTX™

Compatible with GNSS RTK and RTX™ correction signals.

The NX510 Pro's advanced guidance controller is powered with multiple correction sources and five satellite constellations: GPS, GLONASS, Galileo, Beidou and QZSS. Its integrated 4G modem connects seamlessly to any industry-standard DGPS and RTK corrections; its L-band capability enables the system to operate reliably with RTX[®] satellite corrections. In addition, the terrain compensation technology maintains 2.5 cm pass-to-pass accuracy, even in challenging environments and terrain.

FAST, EASY-TO-USE AND RUGGED DISPLAY

Intuitive AgNav software to control all operations at your fingertips.

AgNav multilingual software, operating on a 10.1-inch industrial display, supports multiple guidelines patterns, including AB line, A+ line, circle line, irregular curve and headland turn, to handle all common farming operations. The intuitive AgNav software enhances the user experience in every way to complete field operations with high speed and accuracy.

FULLY INTEGRATED STEERING CONTROLLER Simplify your operation and increase productivity.

The NX510 Pro is an automated steering system that can be fully installed in less than 40 minutes on most farming vehicles, significantly eliminating costly downtime. This auto steering system features high connectivity (multiple CAN ports, serial ports, WiFi/Bluetooth and a 4G modem) as well as ISOBUS compatibility that allows for greater flexibility in automating your farming operations.

RUGGED DESIGN AND PROVEN RELIABILITY Extended durability in farming

environments.

The NX510 Pro's industrial design incorporates dust and waterproof components (IP65 rating or higher), perfectly suited for use in the agricultural environment. In addition, the durable, high-torque eletric steering wheel ensures fast and reliable line acquisition.

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Console Rugged to adapt to a harsh working environment.



Operate reliably with RTX[®] satellite corrections.



Motor Drive High rotating speed achieves fast line acquisition.



AgNav software The user-friendly interface makes operation faster.

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		
Pass to Pass accuracy	≤ ±2.5 cm	
	Physical	
External power	9 V DC to 36 V DC	
Environment	Operating: -20°C ~ +70°C Storage: -40°C ~ +85°C	
Electric Steering Wheel		
Power input	9 V DC to 36 V DC	
Torque	8 N·m	
Wheel diameter	410 mm	
Motor height	80.5 mm	
	Display	
Display	10.1" touch screen, 281mm x 181mm x 42mm Android 6.01 Dust and Waterproof: IP65	
Rear Camera		
Pixel	1280 x 720 pixels	
Camera angle of view	120°	
	Receiver	
Size	219 mm x 205 mm x 60 mm	
Weight	< 2 kg	
Power	9 V DC to 36 V DC	
Dust and waterproof	IP67	
Constellations	GPS/BDS/Galileo/GLONASS/SBAS/ QZSS/L-Band	

Communication and Data	
WiFi/Bluetooth	Yes
Serial port	RS232 x 2
CAN ports	2
NMEA output	1/2/5/10 Hz
Correction formats	CMR, CMR+, RTCM2.x, RTCM3.x
4G Network modem	Integrated in receiver and in display
UHF module	None. Support external radio
Output interface	3 x LEDs (power, satellite, RTK correction) 1 × UHF antenna connector

* Specifications are subject to change without notice.

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