

CHCNAV

NX612

Automated Steering System



Precision
Agriculture

GLOBAL COVERAGE INTEGRATED DESIGN ENHANCED USABILITY

The NX612 Automated Steering System ensures seamless connectivity to GNSS RTK networks and CHCNAV satellite-based correction services. Leveraging SkyTriX technology, it delivers ± 2.5 cm accuracy even in remote areas without GNSS RTK network coverage, making it ideal for precision farming applications anywhere. The system features a compact drive wheel motor, saving cab space and enhancing operator comfort. Its industrial-grade 12-inch HD display, complete with larger icons, 3D views, and a customizable interface, offers excellent usability, making work easier and more efficient.

COMPREHENSIVE GNSS RTK MODES

The NX612 Automated Steering System supports multiple GNSS modes, ensuring accurate positioning under varying operating conditions. Compatible with SPP, DGPS, RTK, E-PPP, H-PPP (Galileo E6-HAS), and SkyTriX, it offers exceptional flexibility. Each mode enhances precision, delivering up to ± 2.5 cm accuracy for all agricultural tasks, even in challenging environments or areas with limited network connectivity. Its multi-mode capability allows the NX612 to adapt seamlessly to regional GNSS infrastructure and field conditions, ensuring optimal performance in any location.

VERSATILE GUIDELINE PATTERNS FOR ANY TERRAIN

The NX612 supports multiple guidance modes to accommodate different operating scenarios and field layouts. These include AB line, A+ line, curve, circular curve, irregular rake line, 90-degree line, boxed line, all-path line and path planning line. The NX612 provides reliable navigation even in complex or irregular field shapes, giving farmers the flexibility they need to effectively manage diverse agricultural landscapes.

EXCEPTIONAL PERFORMANCE AT ALL SPEEDS


Delivering superior accuracy across the entire speed range, from 0.1 to 30 km/h, the NX612 consistently maintains ± 2.5 cm precision for any task, regardless of speed. The NX612 is ideal for a wide range of farming operations, including seeding, spraying, tilling, and land preparation, enabling precise crop management and the efficient use of resources.

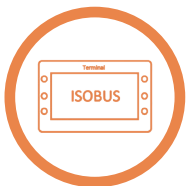
BROAD COMPATIBILITY ACROSS VEHICLE TYPES

Designed for compatibility with a variety of agricultural vehicles, the NX612 integrates seamlessly with front-wheel steering, rear-wheel steering, articulated vehicles, tracked machinery, rice transplanters, and self-propelled sprayers. Regardless of vehicle type or steering configuration, farmers can install high-precision automated steering across their entire fleet to ensure efficient operations.

USER-FRIENDLY INTERFACE FOR EASY OPERATION

The NX612 features an intuitive interface designed for efficient setup with minimal steps. Its streamlined design reduces the learning time, making it easy for operators with limited training to use effectively. Clear icons, straightforward navigation, and a customizable layout provide access to key functions and enhance the user experience.

 **ADVANCED
AUTOSTEERING
SYSTEM**



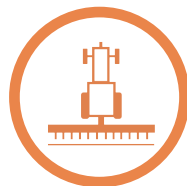
ISOBUS VT/ TC-SC



Smart U-TURN



Cloud Service



Implement
Guidance



Panoramic View



SkyTriX

SPECIFICATIONS

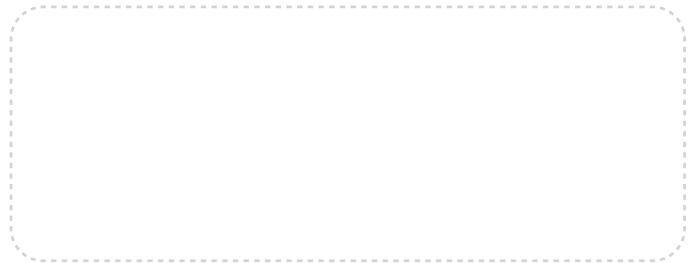
Display	
Screen Size	12.1 inches
Resolution	1280 × 800 pixels
Brightness	750 nits
Communications	Wi-Fi 2.4 GHz and 5.8 GHz, Bluetooth 4.2
Weight	1.5kg
Cellular	2G, 3G, 4G
Dimensions (W × H × D)	297.1 × 199.7 × 41 mm
GNSS	GLONASS L1/L2
Operating System	Android 11
Power	9–36 V DC
Working Temperature	-20°C to +70°C
Storage Temperature	-40°C to +85°C
Dustproof and Waterproof	IP67

Receiver	
GNSS	BDS: B1I, B2I, B3I GPS: L1C/A, L2P(Y)/L2C, L5 GLONASS: G1, G2 Galileo: E1, E5a, E5b, E6 QZSS: L1, L2, L5 L-Band
GNSS Mode	SPP, DGPS, RTK, E-PPP, H-PPP, SkyTrix
Accuracy (RTK)	Horizontal: ±8 mm + 1 ppm RMS Vertical: ±15 mm + 1 ppm RMS
GNSS Mode	Horizontal: ±2.5 cm (CEP95) Vertical: ±5 cm (RMS) Convergence: < 5 min
Cellular	2G, 3G, 4G
Radio	CHC, TT450, Transparent, SATEL, CHC-AG
Power Supply	(9-36)V DC
Dimensions (W × H × D)	208 × 191 × 73 mm
Working Temperature	-20°C to +70°C
Storage Temperature	-40°C to +85°C
Dustproof and Waterproof	IP67

Motor	
Motor Type	Torque Motor
Rated Torque	7 N·m
Max RPM	180 RPM
Rated RPM	120 RPM
Rated Current	15 A
Peak Current	38 A
I/O	1 × CAN / Tractor horn
Power Supply	9–36 V DC
Dimensions of Motor	Ø165 × 58 mm
Weight (Motor)	≤ 3.8 kg
Dimensions of Steer Wheel	D: 400 mm / 360 mm
Working Temperature	-40° C to +85° C
Storage Temperature	-40° C to +85° C
Dustproof and Waterproof	IP65

Camera	
Resolution	1920 × 1080 pixels
Video Output Interface	AHD
White Balance	Automatic
Exposure Control	Automatic
Field of View	150°
Working Temperature	-20° C to +70° C
Dustproof and Waterproof	IP67

*Specifications are subject to change without notice.



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