

NX510 Steer Ready AUTOMATED STEERING SYSTEM

ġ.

CHENAV



PRECISION AGRICULTURE

10NJHJ

HYDRAULIC COMPLIANT AUTOMATED STEERING SYSTEM

HYDRAULIC AUTOSTEERING WITH SIMPLIFIED RETROFIT

A cost-effective way to more efficient, accurate control

The NX510 Steer Ready system is designed to provide farmers with the flexibility to adapt faster, more accurate automated steering to their vehicles through the control the of OEM's onboard steering valve with minor modifications. The compatibility with PWM and CANBUS technologies allows more users to benefit from the NX510 Steer Ready. By having access to an alternative hydraulic autosteering package for their fleet, farmers can improve their productivity and efficiency, which ultimately translates into more successful operations and a high return on investment.

2.5 CM PASS-TO-PASS ACCURACY

High accuracy in challenging environments

The NX510 Steer Ready System is a state-ofthe-art guidance system that utilizes multiple correction sources and all GNSS constellations, including GPS, GLONASS, Galileo, Beidou and QZSS. With its built-in 4G and UHF modem, it easily connects to all industry-standard DGPS and GNSS RTK correction services, enabling precise, centimeter-level steering for agricultural vehicles. The CHCNAV terrain compensation technology ensures consistent and accurate performance even in sloping fields.

HIGH INTEGRATION, ENHANCED CONNECTIVITY

Fast installation and easy transferability between vehicles

The NX510 Steer Ready is designed with highly integrated components for quick and easy installation on most farm vehicles in less than 30 minutes. The streamlined installation process significantly reduces costly vehicle downtime, allowing operators to get back to work without delay. The kit also features enhanced built-in connectivity, including multiple CAN ports, serial ports, WiFi/Bluetooth, a dual 4G modem and an UHF radio modem. The connectivity options facilitate system configuration and operation by providing a high level of flexibility. In addition, the NX510 Steer Ready system is ISOBUS compliant, further enhancing its versatility in automating farm operations.

RUGGED DESIGN AND PROVEN RELIABILITY

Extended durability in farming environments.

Designed to withstand the challenges of typical agricultural environments, the NX510 Steer Ready is built to last. Its industrial design features dust- and waterproof components with an IP65 rating or higher, ensuring protection from harsh elements such as dust, moisture and dirt. Its rugged assembly allows for extreme temperature fluctuations, vibration and shock, making it a reliable solution for the most demanding agricultural conditions.







CHCNAV · NX510 Steer Ready

SPECIFICATIONS

Positioning Accuracy		
Real time kinematics (RTK)	Horizontal: 8 mm + 1 ppm RMS Vertical: 15 mm + 1 ppm RMS Initialisation time: < 5 s Initialisation reliability: > 99.9%	
Velocity accuracy	0.03 m/s RMS	
Performance		
Pass to pass accuracy	≤ ±2.5 cm	
Physical		
External power Environment	9 V DC to 32 V DC Operating: -20°C ~ +70°C Storage: -40°C ~ +85°C	
Display		
Display	10.1" touch screen, 281 mm x 181 mm x 42 mm Android 6.01 Dust and Waterproof: IP65	
Rear Camera		
Pixel	1280 x 720 pixels	
Camera angle of view	120°	
	Receiver	
Size	220 mm x 205 mm x 60 mm	
Weight	< 2 kg	
Power	9 V DC to 36 V DC	
Dust and waterproof	IP67	
Constellations		
GPS	L1/L2/L5	
GPS BDS	L1/L2/L5 B11/B21/B31/B1C/B2a/B2b	
0.0		
BDS	B1I/B2I/B3I/B1C/B2a/B2b	
BDS Galileo	B1I/B2I/B3I/B1C/B2a/B2b E1/E5a/E5b/E6	

Communication and Data		
WiFi/Bluetooth	Yes	
Serial port	RS232 x 2	
CAN ports	2	
NMEA output	1/2/5/10 Hz	
Correction formats	RTCM 3.0/3.1/3.2/3.3	
4G Network modem	Integrated in receiver and in display	
UHF module	Frequency: 410-470 MHz Protocol: TT450S/Transparent/CHC	
Output interface	3 x LEDs (power, satellite, RTK correction) 1 × UHF antenna connector	

* Specifications are subject to change without notice.

© 2023 Shanghai Huace Navigation Technology Ltd. All rights reserved. The CHCNAV and CHCNAV logo are trademarks of Shanghai Huace Navigation Technology Limited. All other trademarks are the property of their respective owners. Revision January 2023.

WWW.CHCNAV.COM MARKETING@CHCNAV.COM

CHC Navigation Headquarter

Shanghai Huace Navigation Technology Ltd.

577 Songying Road, Qingpu, 201703 Shanghai, China +86 21 54260273

CHC Navigation Europe

Infopark Building, Sétány 1, 1117 Budapest, Hungary +36 20 421 6430 Europe_office@chcnav.com

CHC Navigation USA LLC

6380 S. Valley View Blvd, Suite 246, Las Vegas, NV 89118, USA +1 702 405 6578

CHC Navigation India

409 Trade Center, Khokhra Circle, Maninagar East, Ahmedabad, Gujarat, India +91 90 99 98 08 02