

NX510 Steer Ready AUTOMATED STEERING SYSTEM

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PRECISION AGRICULTURE

CHENON

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 a 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.

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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 36 V DC Operating: -20°C ~ +70°C Storage: -40°C ~ +85°C	
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°	
Camera angle of view	120° Receiver	
Camera angle of view Size		
	Receiver	
Size Weight Power	Receiver 220 mm x 205 mm x 60 mm	
Size Weight	Receiver 220 mm x 205 mm x 60 mm < 2 kg	
Size Weight Power Dust and waterproof	Receiver 220 mm x 205 mm x 60 mm < 2 kg	
Size Weight Power Dust and waterproof	Receiver 220 mm x 205 mm x 60 mm < 2 kg	
Size Weight Power Dust and waterproof	Receiver 220 mm x 205 mm x 60 mm < 2 kg	
Size Weight Power Dust and waterproof C GPS	Receiver 220 mm x 205 mm x 60 mm < 2 kg	
Size Weight Power Dust and waterproof C GPS BDS	Receiver 220 mm x 205 mm x 60 mm < 2 kg	
Size Weight Power Dust and waterproof C GPS BDS Galileo	Receiver 220 mm x 205 mm x 60 mm < 2 kg	

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.

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