



Steer Ready Solution

NX510 Steer Ready

The NX510 Steer Ready is a cost-effective auto-steering system designed for steer-ready vehicles. Featuring GNSS and RTK technologies, various guidance patterns, ISOBUS compatibility, U-turn capabilities, and more, the system enhances the efficiency of diverse farming operations.

Highly integrated components: Efficient installation and high portability

The NX510 Steer Ready system consolidates essential components, such as GNSS, IMU, 4G, and radio, into 3 core modules: a smart receiver, a control display, and an electronic control unit that supports PWM and CAN communication. This comprehensive design solution speeds up installation and enables quick system transfer between farm vehicles, optimizing farmers' time and costs.

“ Drilling late at night, fog came in, couldn't see a thing, completely disorientated but the auto steer kept us going and it's come up now, pretty tidy job!

Alex Mowat
Mixed Cropping & Dairy, Canterbury ”

The Solution For Auto Steer



1

Receiver
Versatile for GPS
and Control



2

Console
Rugged to adapt to
a harsh working
environment.



3

ECU
Control the
steering valve
over PWM or
CANBUS.



4

**Rear View
Camera**
For extra
reassurance



Why use NX510 Steer Ready?

2.5 CM Pass-To-Pass Accuracy

Maintain high accuracy over varying terrain.

Using multiple correction sources and full constellation support - including GPS, GLONASS, Galileo, Beidou and QZSS - the NX510 Steer Ready system provides autonomous, SBAS and RTK capabilities. Its advanced terrain compensation technology ensures consistent, high-level accuracy even in tough operating conditions and at high and low speeds.

Advanced Functionality

Versatile connectivity and expanded capabilities.

The NX510 SE' 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 electric steering wheel ensures fast and reliable line acquisition.

Rugged Design and Reliable Performance

Enhanced durability in agricultural environments.

The NX510 Steer Ready system is designed to withstand the rigors of agricultural use. It features a rugged design with dust-and water-resistant components rated IP65 and higher. With the ability to endure extreme temperatures, vibrations, and shocks, this system offers a dependable solution for even the most challenging environments.

Versatile Guidance Patterns and Wide Working Speed Range

Adaptable to a variety of agricultural applications.

The NX510 Steer Ready system comes up with a variety of steering patterns, including AB line, A+ line, pivot, curve, 90° line, all-path line, and headland line. Its advanced control algorithm and responsive hardware allow seamless operation over a wide speed range from 0.1 to 25 km/ h. This versatility makes it suitable for a diverse array of agricultural tasks, including tillage, harrowing, plowing, ridging, seeding, spraying, spreading, and harvesting.

User-Friendly Software Interface

Easy-to-use with short learning curve.

Operating on a 10.1" Android display, the multilingual AgNav software ensures user-friendly navigation and accessibility. Engineered for rapid onboarding, new users can master the system in just a few minutes. Its remote assistance functionality facilitates connections between the user and the software support team. AgNav streamlines work, empowering farmers to perform field tasks quickly and easily.

Absolute accuracy in challenging environments and difficult terrains from only **\$10,856+GST!**



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	9 V DC to 32 V DC
Environment	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
BDS	B1I/B2I/B3I/B1C/B2a/B2b
Galileo	E1/E5a/E5b/E6
GLONASS	L1/L2
SBAS	L1
QZSS	L1/L2/L5/L6
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 x UHF antenna connector

* Specifications are subject to change without notice.

“During early mornings & late evenings, when the sun sits low, manual steering becomes challenging. The auto-steer feature significantly improved efficiency & reduced driver fatigue on those long days going up & down the rows.

Stuart Stephens
Blackcurrant farmer, Irwell Canterbury

Contact Tony on 027 455 2272, or visit totalagcontrol.co.nz or pop in at 183 Alford Forest Road Allenton, Ashburton.

Total Ag Control