

CHCNAV

# Guide 10

## MANUAL GUIDANCE SYSTEM



PRECISION  
AGRICULTURE

# ACCURATE AND UPGRADEABLE MANUAL GUIDANCE SYSTEM

Guide 10 is the next generation manual guidance system that allows farmers to navigate their agriculture vehicles in a straight line while plowing, planting or spraying, resulting in optimized crop yield and quality. Our system is designed to improve farming practices by providing GNSS precision and accurate tractor guidance.

Guide 10 features an IMU sensor that enables terrain compensation, maintaining optimal accuracy even in difficult field conditions to minimize skips and overlaps. The system is compatible with multiple agriculture vehicle makes and models, providing a versatile solution for all farming operations. It offers scalability, so you can protect your initial investment when you decide to upgrade to a fully automated GNSS RTK autosteering system.

The Guide 10 agriculture vehicle guidance system is an essential tool for today's farmers looking to improve productivity and profitability. By saving input costs and increasing yields, Guide 10 is the perfect solution for farmers looking to optimize their farming practices.



## Display

Rugged to adapt to a harsh working environment



## GNSS Antenna

Simple installation and easy for maintenance



## IMU Sensor

High sensitivity and maintains consistent accuracy

## EASY-TO-USE, FEATURE-RICH SOFTWARE

Guide 10 software is designed to provide a comprehensive, easy-to-use solution for tractor navigation in agricultural fields. With multiple guidance patterns, including AB line, A+ line, curve line and circular curved line, farmers can choose the most appropriate model for their specific needs. Its Landmark Point feature is a powerful tool that identifies unique field features to avoid, such as trees, rocks or other obstacles, to accurately navigate tractors, minimizing the risk of damage to equipment or crops.

Navigation accuracy is always monitored by a virtual light bar on the screen that indicates deviations from the desired path, allowing the operator to adjust the path in real time to suit the requirements of the current farming task. The software allows the export of work logs that include area worked, average speed and other useful data to analyze farming practices and optimize operations to improve efficiency and profitability.

## RUGGED INNOVATIVE 10-INCH DISPLAY

The Guide 10 display provides an easy-to-use interface on a 10.1" color touchscreen, allowing for simple navigation through the system's features. The display brightness is optimized for use in direct sunlight, ensuring the screen remains readable even in bright outdoor environments and allowing farmers to use the guidance system regardless of lighting conditions or season.

The heavy-duty display is specifically designed to operate in the demanding conditions of agricultural operations, providing a reliable and durable solution. It is built with durable materials, including plastics and metals that can withstand shock, vibration and other hazards that can occur during operation.

## ENHANCED GUIDANCE PERFORMANCE WITH IMU SENSOR

Guide 10's terrain compensation technology, powered by our high sensitivity IMU sensor, maintains consistent accuracy even in challenging environments and terrain, greatly improving pass-to-pass accuracy and providing a smoother operating experience. Designed to provide reliable and accurate data on the tractor's position regardless of the terrain or environment, Guide 10 is essential for farmers who need to navigate their tractors through challenging fields and terrain with precision and accuracy.

## UPGRADE TO RTK AUTOSTEERING WITHIN REACH

Upgrading the Guide 10 guidance system to a full RTK auto-steering system with an electric wheel is an easy and cost-effective way to maximize your initial investment. The upgrade process simply involves adding the electric wheel to your existing Guide 10 system and upgrading the display to GNSS RTK functionality. The upgrade instantly transforms your Guide 10 into a complete autosteering system with industry-leading centimeter steering accuracy. The upgrade makes RTK autosteering technology easily and affordably accessible as and when needed.

# SPECIFICATIONS

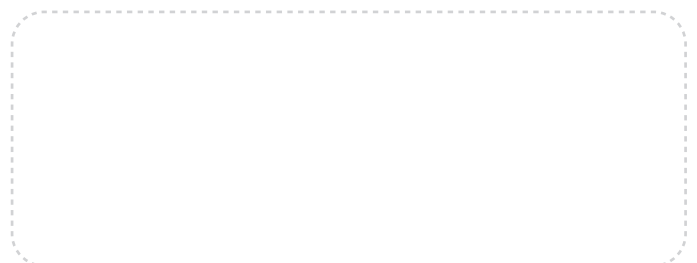
Display	
Power supply	9 V - 36 V
Screen	10.1 inches Resolution: 1024 x 600 750 nits
Communications	2.4 G WiFi/BT4.0, BLE
Weight	1.5 kg
Size (W x H x D)	281 mm x 181 mm x 42 mm
GLONASS	L1/L2
Galileo	E1/E5a/E5b
BDS	B1/B2/B3
GPS	L1/L2/L5
QZSS	L1/L2/L5 /L6
SBAS	Yes
Working temperature	-20°C ~ +70°C
Storage temperature	-40°C ~ +80°C
Dust and waterproof	IP65
Network	2G/3G/4G

IMU Sensor	
Type	IMU
Roll angle accuracy	0.1°
Pitch angle accuracy	0.1°
Acceleration output noise	0.7 mg
Raw data output frequency	100 Hz
Dust and waterproof	IP67
Working temperature	-20°C ~ +70°C
Storage temperature	-40°C ~ +80°C

Rear Camera	
Power	DC 12 V ±5%
Angles	120°
Pixel	1280 (H) x 720 (V)
Dust and waterproof	IP67
Working temperature	-20°C ~ +70°C
Storage temperature	-40°C ~ +80°C

GNSS Antenna	
Dimension	Φ150 mm x 61 mm
Weight	≤450 g
Connector	TNC-K
Dust and waterproof	IP67
Working temperature	-40°C ~ +85°C
Storage temperature	-55°C ~ +85°C

\* Specifications are subject to change without notice.



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