NAV-900

GUIDANCE CONTROLLER

The NAV-900 guidance controller is our most advanced GNSS receiver to date, built for maximum uptime and a wide range of accuracy options from basic to high precision. It is designed to mount on the roof of most agricultural vehicles to provide positioning and guidance, including autosteer.

EASY INSTALLATION

Designed from the ground up to install quickly, the NAV-900 guidance controller along with a compatible GFX series display can be installed with an autoguidance system in just half a day in most vehicles or in under two hours if using manual guidance, eliminating costly downtime in the field.

EXPANDED GNSS

This new guidance controller features Trimble's most powerful GNSS engine. It tracks more satellites from more constellations, leading to more robust performance in harsh environments and also faster RTX convergence time.

Guidance	
Electric	Autopilot™ Motor Drive
Guidance Ready	CANBus J1939
Hydraulic	External NAV III Autopilot

Housing & Mechanical	
Housing Material	Low-profile, chemical-resistant polymer casing with UV-resistant paint
Size	213 x 213 x 80 mm
Weight	1.2 kgs
Mounts	Trimble custom, OEM compatible*, Spar*

Connectors	
To GFX-750	M12 4-pin connector
To External Radio	M12 5-pin connector
For I/O	Deutsch 12-pin connector

Communication and I/O	
Bluetooth	Bluetooth 4.1
Serial Ports	1 Tx/Rx, 1 Tx only
CAN Ports	2
BroadR-Reach®	Port: 1
Digital Out	Sonalert
Analog In	Remote engage
NMEA Output	1, 5, 10, Hz

GNSS Receiver Specifications	
Constellations	GPS: L1 C/A, L2C, L2E, L5
	GLONASS: L1 C/A, L1P, L2 C/A, L2P, L3 CDMA
	Galileo: E1, E5AltBOC
	BeiDou (COMPASS): B1, B2
Satellite Corrections	CenterPoint® RTX Fast
	CenterPoint RTX
	RangePoint® RTX
	SBAS (WAAS, EGNOS, MSAS)
	xFill
Land-Based Corrections	CenterPoint RTK
	CenterPoint VRS
Correction Formats	CMR+, sCMR+, sCMR+ with SecureRTK, CMRx, RTCM 3.0, RTCM 3.1, RTCM 3.2

Inertial Measurement Unit (IMU)	
Gyroscope	3-axis, 200 Hz
Accelerometer	3-axis, 200 Hz

Key Features

- Full range of correction signals including GPS, GLONASS, Galileo, Beidou, and QZSS constellations
- Built in WiFi and Bluetooth for tethering, and device connections
- Simplified setup with fewer components
- Combine with one of the GFX series displays for auto guidance and precision farming functions

Power	
Power	9 - 16 VDC, 5.5 W 17.5 W with external accessories connected
Output Power	12 VDC, 12 W Maximum current for external radio: 1 A

Operational Range	
Operating Temperature	–40 °C - 70 °C
Storage Temperature	–40 °C - 85 °C
Humidity	up to 100%, ondensing
Ingress Protection	IP66, dustproof, waterproof, IPx9K

** optional accessory*

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