

# NAV-500

## Guidance Controller

Paired with any GFX series display, the NAV-500™ guidance controller is an affordable precision solution capable of receiving corrections from multiple GNSS satellite constellations. Get sub-metre repeatable accuracy and full-farm coverage at a great price to use during tillage, broad-acre seeding, spraying and harvest.



### Key Features

- Low-profile rugged housing
- Trimble® ViewPoint RTX™ correction service
- 5 satellite constellations
- Roll-corrected manual guidance
- Compatible with EZ-Steer® assisted steering system and EZ-Pilot® Pro steering system
- 4.1 Bluetooth®
- Multiple CAN ports



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Housing & Mechanical		Inertial Measurement Unit (IMU)	
Housing Material	Low-profile, chemical-resistant polymer casing	Gyroscope	3-axis, 50 Hz
Size	7.1 in x 7.1 in x 2.9 in (W x D x H) (180 mm x 180 mm x 74 mm)	Accelerometer	3-axis, 50 Hz
Weight	22.6 oz (0.640 kgs)	External IMU Needed for EZ-Pilot Pro	57407-01
Mounts	Universal Magnetic Mount	Operational Range	
Power		Operating Temperature	-30 °C to +70 °C (-22 °F to +158 °F)
Power	9-16 VDC, 3.5 W	Storage Temperature	-40 °C to +85 °C (-40 °F to +185 °F)
Connections		Humidity	100% Condensing
To GFX Series Displays	M12 4-pin connector	Ingress Protection	IP66
For I/O	Deutsch 12-pin connector	GNSS Receiver Specifications	
Communication and I/O		Constellations	GPS: L1 C/A
Bluetooth	Bluetooth 4.1		GLONASS: L1 C/A, L1P
Serial Ports	1 TX/RX, 1 TX only		Galileo: E1
CAN Ports	2		Beidou: B1
BroadR-Reach Port	1	Satellite Corrections	QZSS: L1 C/A
Digital Out	Sonalert		ViewPoint RTX
Analog In	Remote Engage		SBAS (WAAS, EGNOS, GAGAN, MSAS)
NIMEA Output	1, 5, 10, Hz		SBAS +
		Guidance	
		Electric	EZ Pilot, EZ-Pilot Pro, EZ-Steer

Correction Type	Pass to Pass Accuracy (1-D) *	Year-to-Year Repeatability (1-D) *	Convergence
ViewPoint RTX	15 cm	Sub-metre	< 5 minutes
SBAS	20 cm	Instant	
Uncorrected	30 cm	> 1 metre	

\* 68% (RMS) 1-dimensional horizontal performance based on repeatable in field measurements. Achievable accuracy and initialisation time may vary based on type and capability of receiver and antenna, user's geographic location and atmospheric activity, scintillation levels, GNSS constellation health and availability and level of multipath including obstructions such as large trees and buildings. Pass to Pass measurements are within 15 minutes.

Contact your Trimble Ag Reseller today

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