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







Housing & Mechanical				
Housing Material	Low-profile, chemical-resistant polymer casing			
Size	7.1 in × 7.1 in × 2.9 in (W × D × H) (180 mm × 180 mm × 74 mm)			
Weight	External NavController III Autopilot™			
Mounts	22.6 oz (0.640 kgs)			
Power				
Power	9-16 V DC, 3.5 W			
Connections				
To GFX Series Displays	M12 4-pin connector			
For I/O	Deutsch 12-pin connector			
Communication and I/O				
Bluetooth	Bluetooth 4.1			
Serial Ports	1TX/RX,1TX only			
CAN Ports	2			
BroadR-Reach	1			
Digital Out	Sonalert			
Analog In	Remote Engage			
NIMEA Output	1, 5, 10, Hz			

Inertial Measurement Unit (IMU)					
Gyroscope	3-axis, 50 Hz				
Accelerometer	3-axis, 50 Hz				
External IMU Needed for EZ-Pilot Pro	57407-01				
Operational Range					
Operating Temperature	-30 °C to +70 °C (-22 °F to +158 °F)				
Storage Temperature	-40 °C to +85 °C (-40 °F to +185°F)				
Humidity	100% Condensing				
Ingress Protection	IP66				
GNSS Receiver Specifications					
	GPS: L1C/A				
	GPS: L1 C/A GLONASS: L1 C/A, L1P				
Constellations					
Constellations	GLONASS: L1 C/A, L1P				
Constellations	GLONASS: L1 C/A, L1P Galileo: E1				
Constellations	GLONASS: L1 C/A, L1P Galileo: E1 Beidou: B1				
Constellations Satellite Corrections	GLONASS: L1 C/A, L1P Galileo: E1 Beidou: B1 QZSS: L1 C/A				
	GLONASS: L1 C/A, L1P Galileo: E1 Beidou: B1 QZSS: L1 C/A ViewPoint RTX				
	GLONASS: L1 C/A, L1P Galileo: E1 Beidou: B1 QZSS: L1 C/A ViewPoint RTX SBAS (WAAS, EGNOS, GAGAN, MSAS)				

^{*} optional accessory

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 meter	

^{* 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 PTx Trimble Reseller today

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