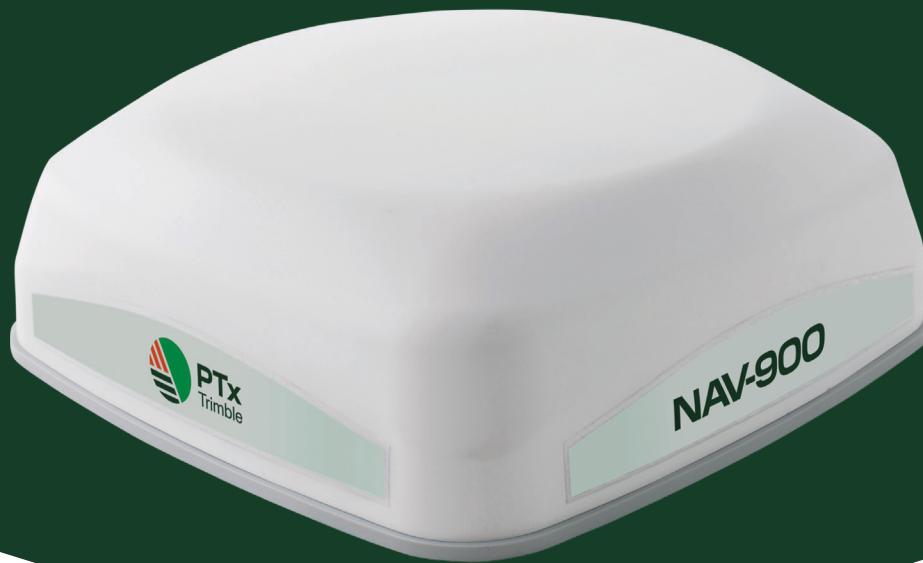


# NAV-900

## 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.



### Key Features

- Full range of correction signals including GPS, GLONASS, Galileo, Beidou, and QZSS constellations
- Built in 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



### 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 PTx 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 Solutions     |
| Guidance Ready | CANBus J1939                         |
| Hydraulic      | External NavController III Autopilot |

| Housing & Mechanical |  |
|----------------------|--|
| Housing Material     | Low-profile, chemical-resistant polymer casing with UV-resistant paint |
| Size                 | 8.3 in × 8.3 in × 3.1 in (W × D × H)<br>213 mm × 213 mm × 80 mm        |
| Weight               | 1.2 kgs  |
| Mounts               | Trimble custom, OEM compatible*, Spar*                                 |

| Connectors          |                          |
|---------------------|--------------------------|
| To GFX-750™ display | 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       |

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

| Operational Range     |                                     |
|-----------------------|-------------------------------------|
| Operating Temperature | -40 °C to +70 °C (-40 °F to +158°F) |
| Storage Temperature   | -40 °C to +85 °C (-40 °F to +185°F) |
| Humidity              | up to 100%, condensing              |
| Ingress Protection    | IP66, dustproof, waterproof, IPx9K  |

| GNSS Receiver Specifications |  |
|------------------------------|--|
| Constellations               | GPS: L1 C/A, L1C, L2E, L2C, L5             |
|                              | GLONASS: L1 C/A, L1P, L2P, L2 C/A, L3 CDMA |
|                              | Galileo: E1, E5A, E5B, E5AltBOC            |
|                              | BeiDou: B1C, B1I, B2I, B2A                 |
| Satellite Corrections        | QZSS: L1 C/A, L2C, L5                      |
|                              | CenterPoint® RTX Fast                      |
|                              | CenterPoint RTX correction service         |
|                              | RangePoint® RTX correction service         |

|                        |   |
|------------------------|---|
| Land-Based Corrections | SBAS (WAAS, EGNOS, SLAS)  |
|                        | xFill® technology   |
|                        | CenterPoint RTK   |
|                        | CenterPoint VRS   |
| Correction Formats     | CMR+, sCMR+, sCMR+ with SecureRTK, CMRx, RTCM 3.0, RTCM 3.1, RTCM 3.2, RTCM 3.3 |

| GNSS Receiver Specifications |  |
|------------------------------|--|
| 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         |

\* optional accessory

| Correction Type                | Pass to Pass Accuracy | Year-to-Year Repeatability | Convergence  |
|--------------------------------|-----------------------|----------------------------|--|
| RTK <sup>1,3</sup>             | 2.5 cm                | 2.5 cm                     | Instant  |
| VRS <sup>1,3</sup>             |                       |                            | < 5 min in standard coverage regions for Trimble ProPoint® devices<br>< 2 min in Fast coverage regions for Trimble ProPoint devices<br>< 20 min in standard coverage regions |
| CenterPoint RTX <sup>1,3</sup> |                       |                            |  |
| RangePoint RTX <sup>1,3</sup>  | 15 cm                 | 50 cm                      | < 5 minutes  |
| Uncorrected <sup>2,3</sup>     | 30 cm                 | > 1 meter                  | Instant  |

1. 95% 2-dimensional horizontal performance based on repeatable in field measurements.

2. 68% (RMS) 1-dimensional horizontal performance based on repeatable in field measurements.

3. Achievable accuracy and initialization time may vary based on type and capability of receiver and antenna, user's geographic location, atmospheric activity, GNSS constellation health and availability, and level of multipath including obstructions. Pass to Pass measurements are within 15 minutes.

**Vantage Australia**[Vantage-au.com](http://Vantage-au.com)

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