



# 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 <sup>®</sup> 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 <sup>®</sup>    | Bluetooth 4.1      |
| Serial Ports              | 1 Tx/Rx, 1 Tx only |
| CAN Ports                 | 2                  |
| BroadR-Reach <sup>®</sup> | Port: 1            |
| Digital Out               | Sonalert           |
| Analog In                 | Remote engage      |
| NMEA Output               | 1, 5, 10, Hz       |

| 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 <sup>®</sup> RTX Fast   |
|                              | CenterPoint RTX   |
|                              | RangePoint <sup>®</sup> RTX   |
| Land-Based Corrections       | SBAS (WAAS, EGNOS, SLAS)  |
|                              | xFill   |
| Correction Formats           | CenterPoint RTK   |
|                              | CenterPoint VRS   |
| Correction Formats           | CMR+, sCMR+, sCMR+ with SecureRTK, CMRx, RTCM 3.0, RTCM 3.1, RTCM 3.2, RTCM 3.3 |

| 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 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<br>17.5 W with external accessories connected |
| Output Power | 12 VDC, 12 W Maximum current for external radio: 1A             |

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

\* optional accessory

Contact your local Ag reseller today

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