

NamoAG

Navigation for Modern Agriculture



INTRODUCTION:

Introducing NamoAG by PDRL, an Indigenously developed Agri-Drone Navigation device. Designed with the unique challenges of agriculture fields in mind, NamoAG delivers high-accuracy navigation, multi-constellation satellite support, and seamless pairing with Ag++ Flight Controller. From wide-open farms to complex terrains, fly with confidence.





KEY FEATURES:



Multi-Constellation Satellite Support

Simultaneous tracking of GPS, GLONASS, Galileo, BeiDou, SBAS, and QZSS for superior signal availability.



High Navigation Accuracy

Enhanced positional accuracy with 1.5m – 3m CEP (Circular Error Probable), ideal for precision drone applications.



Built-in SAW Filters and LNA (Low Noise Amplifier)

Improves signal clarity and reduces interference for noise-resilient performance.



Compact and Lightweight Design

Small form factor (61.82 x 61.82 x 19.81mm ~30g) for easy integration into lightweight UAV and drone frames.



High-Sensitivity Compass with ± 8 Gauss Range

Enables precise heading detection and performance stability even in strong magnetic field environments.



DroneCAN Communication Protocol

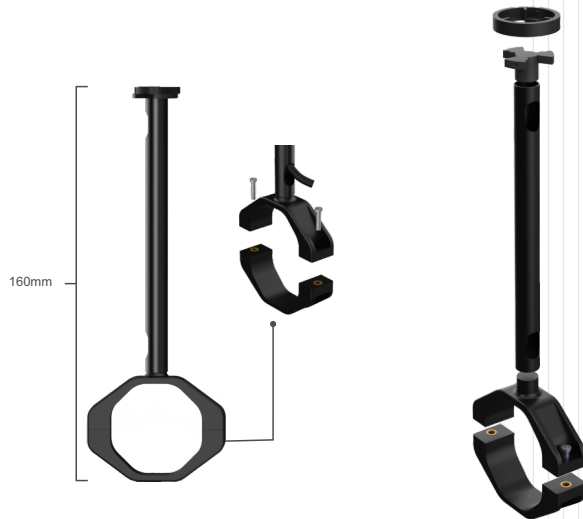
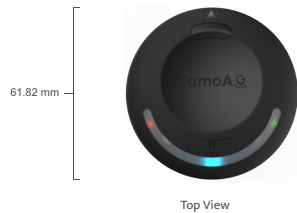
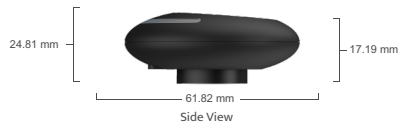
Offers noise-resistant, interference-free, and real-time data transmission between GPS, compass, flight controllers, and other drone peripherals.

SPECIFICATIONS:

| Parameters | Specifications |
|--------------------------|--|
| Satellite Constellation | <ul style="list-style-type: none">• GPS L1• GLONASS L1• SBAS L1• Galileo E1• BeiDou B1• QZSS L1 |
| Receiver | u-blox NEO-M9N |
| Dimensions | 61.82 x 61.82 x 24.81mm |
| Weight | ~ 30g |
| Output Protocol | DroneCAN |
| Positioning Accuracy | 1.5 m CEP |
| Input Voltage | 5V DC |
| Processor | ARM® Cortex®-M4 STM32F4 |
| Antenna | 35 x 35mm |
| Safety switch | Available |
| Buzzer | Available |
| Compass | Available |
| Barometer | Available |
| Gyroscope, Accelerometer | Available |
| LED | Arming LED, Power LED and Notification LED Available |



DIMENSION:



WHY NamoAG?

- **Indigenously Designed for Indian Conditions**

NamoAG is proudly designed and developed in India, engineered to perform reliably across diverse agricultural landscapes, varying climates, and challenging terrains like farmlands, forests, and hilly regions.

- **Compact, Lightweight & Power-Efficient**

Small footprint with low power draw ensures longer flight time, making it perfect for battery-sensitive drone operations.

- **Enhanced Safety Features Built-In**

With Safety Switch, Status LEDs, and Buzzer Alerts, NamoAG supports field crew safety, pre-flight checks, and real-time operational feedback. .

- **Seamless Electronic Pairing with Ag++ Flight Controller**

Ensures seamless electronic pairing with the Ag++ Flight Controller for quick setup and smooth mission execution.

PDRL AGRI-BUNDLE OFFERINGS

- **Hardware Products:**

Ag++ Flight Controller
NamoAG (Navigation for Modern Agriculture)

- **Software Products:**

AeroGCS GREEN
AeroGCS Enterprise
BhuMeet Digital
AeroMegh Intelligence

