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	• GPS L1 • Galileo E1 • GLONASS L1 • BeiDou B1 • SBAS L1 • 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	Avaliable
Barometer	Available
Gyroscope, Accelerometer	Available
LED	Arming LED, Power LED and Notification LED Available



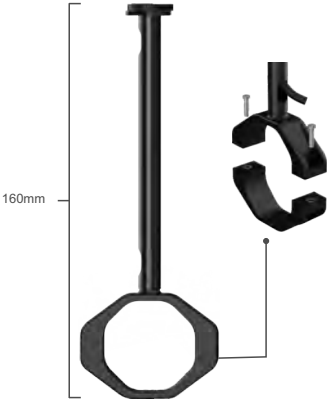
DIMENSION:



Side View



Top View





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

