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RYNO
The Mapping Maestro

RYNO

THE MAPPING MAESTRO

RYNO UAV is our micro category survey-grade drone with an advanced mapping payload and state-of-the-art PPK Module. With our extensive experience in building MIL SPEC drones, we have ensured that RYNO UAV offers category-defying performance even in the most demanding conditions.

Up to
4 km
Operational Range

Less than
2 kg
Take-off Weight

0.6 Sq km
Area Coverage
with 80/60 overlap at 60 m AGL

<10 cm
Absolute X, Y Accuracy
at 60 m AGL (with 95% confidence interval)

<20 cm
Absolute Z Accuracy
at 60 m AGL (with 95% confidence interval)

More than
40 min
Flight Time

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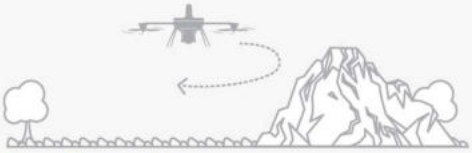
Features

SOI Qualified
iF Family of Survey Grade Mapping Drones are Qualified by Survey of India for Swamitva Yojna

Best-in-Class Area Coverage
Fly **longer** and **farther** for quicker ROI

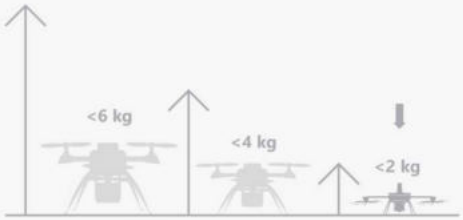
Superior Accuracy
<5 cm in X & Y - axis and **<10 cm in Z - axis Typical accuracy** with survey grade PPK Module



Terrain Avoidance
Safely conduct surveying operations in tough weather and terrain conditions

Robust Build Quality
RYNO airframe is built for over **2000 mapping operations**

Compliant With Air Travel
With the rating less than 100 watt hrs, Ryno battery can be hand carried in flight for easy transportation

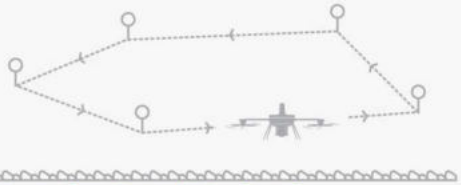


Man-portable
75% Lighter than Drones with Similar Performance

Less than 10 minutes Deployment Time
User-friendly assembly to conduct mapping operations faster

Quadcopter Configuration with VTOL
Conduct operations with **increased flexibility**, even **from smaller areas**

Minimal Training Requirements
No UAOP, Security Clearance or DGCA Training required*
**applicable in India only | under 60m AGL*



Waypoint Based Navigation
Tell Ryno where to go and let it take care of the rest

NPNT Ready
Designed for NPNT standard

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Tech Specs

India is a vast and diverse country. Frigid mountainous regions, hot deserts, humid plains, marine environment and wetlands with torrential rains, the country has regions that represent every weather pattern and terrain conditions. Proudly Made in India, RYNO UAV has been built to withstand these demanding conditions and deliver stellar performance. In fact, it is first micro category drone in the world that has passed the stringent technical qualification criteria laid down by the Survey of India.

Aerial Vehicle (AV) Characteristics	
UAV Weight with battery and max. payload	<2 Kg
Range of live transmission (LOS)	4 km (un-obstructed & interference free)
Typical Cruise Speed	10 m/s
Functional Temperature Range	-10°C to +50°C
Dust & Drizzle Resistance	IP53 rated
Deployment Time	<10 minutes
Packaging and Storage	Backpacks to carry all mission critical components
Regulatory Compliance	NPNT Ready - applicable for Indian airspace
Payload Characteristics	
GNSS Grade	High accuracy L1 & L2 Frequency Band Enabled PPK
Mapping Performance at 60m AGL	
Ground Sampling Distance (GSD)	<3 cm
Typical X, Y accuracy	<5 cm
Typical Z accuracy	<10 cm
Absolute X, Y accuracy	<10 cm (with 95% confidence interval)
Absolute Z accuracy	<20 cm (with 95% confidence interval)
Ground Control Station (GCS) Software Features	
Terrain Avoidance	Detects and avoids natural terrain by using elevation data (where available)
Geo Tagging	
Communication link Characteristics	
Autonomous Flight Termination System or Return Home (RH) option	Return home triggered by land command on various fail safe features
Failsafe Features	
Multiple GPS on-board	For Redundancy
Auto-Return to Home and Land	On Communication Failure
Auto-Return to Home and Land	On Low Battery
Auto-Return to Home and Land	On exceeding Wind limit of the system
Auto-Return to Home and Land	On Battery Imbalance
Auto-Return to Home and Land	On exceeding Temperature limit of the system

Subject to Change

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