



Eagle ronics
Aviation

Manufacturing | Services | Training



VEDANSH UAV

Small-Category Multirotor

THE BLACK BEETLE

About VEDANSH UAV

“VEDANSH” UAV is our first Micro category class Quadcopter Drone. Vedansh has been made exclusively for Surveying & Mapping purpose. It uses a dual battery pack technology for greater endurance during the flight. Vedansh is completely built of Carbon composite material keeping its weight factor in consideration. Overall, Vedansh has a highly reliable system integrated in it.

0.6 Sq Km

Area Coverage at 60 m AGL

<5 cm

Absolute X, Y Accuracy
at 60 m AGL

<15

Absolute Z Accuracy
at 60 m AGL



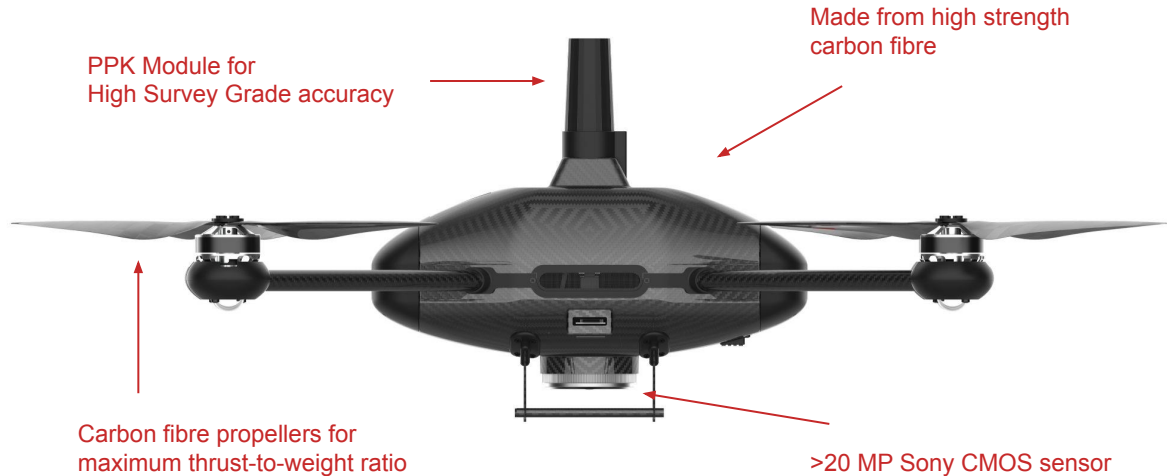
80%

Reduction in Surveying
& Mapping Time



60%

Reduction in Surveying
& Mapping cost



Base Station

Multi-band RTK GNSS receiver
with centimeter precision

For surveying, mapping and navigation applications.
Base station Comes with a mobile app.

Base Station gets a fixed solution in just seconds and maintains robust performance even in challenging conditions. Centimeter accuracy can be achieved on distances up to 60 km in RTK, and 100 km in PPK mode.



Payload : RGB Sensor 24 MP

The combination of mapping payload with PPK module is a powerhouse in itself. It delivers accuracy that has never been seen before in this class.



>24 Megapixel Camera



Storage (Expandable upto 128GB)



APS-C CMOS Sony Sensor



Payload : Multispectral Sensor

RedEdge-P features a high-resolution panchromatic band for pan-sharpened output resolutions of 2 cm / 0.8 in at 60 m / 200 ft.

Its five narrow multispectral bands with scientific-grade filters make it the perfect camera for calculating multiple vegetation indices and composites.

>20 Megapixel Camera

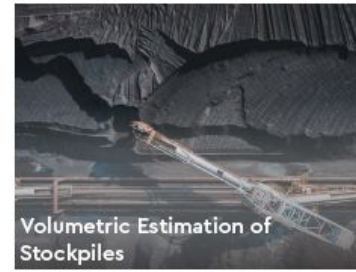
Storage (Expandable upto 128GB)

APS-C CMOS Sony Sensor



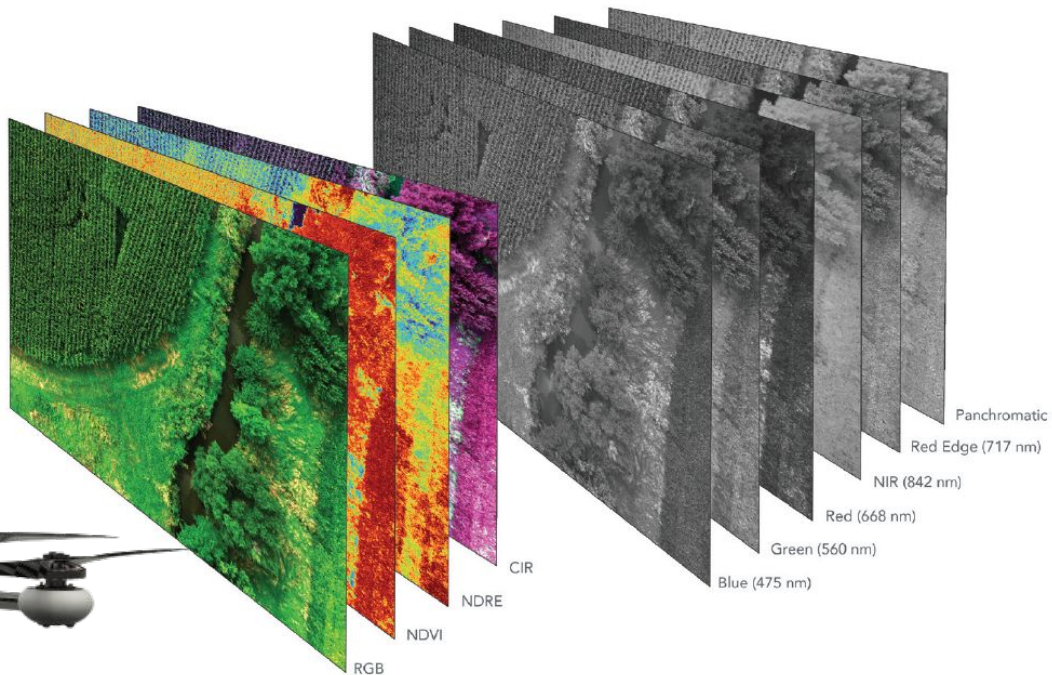
Applications (With RGB Sensor)

The “VEDANSH” UAV has a very well tuned software and hardware , strong build quality, low weight and easy portability, makes it usable in various application.



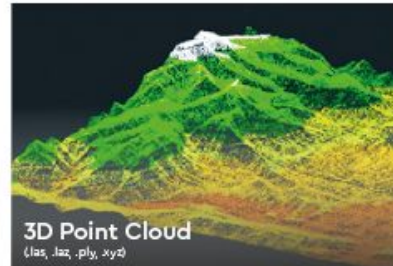
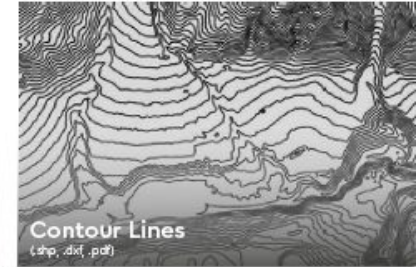
Applications (With Multispectral Sensor)

- Plant counting
- Phenotyping
- Plant health mapping
- Fertilizer management
- Species differentiation & weed detection
- Advanced crop scouting
- High-res 3D point clouds
- Disease identification



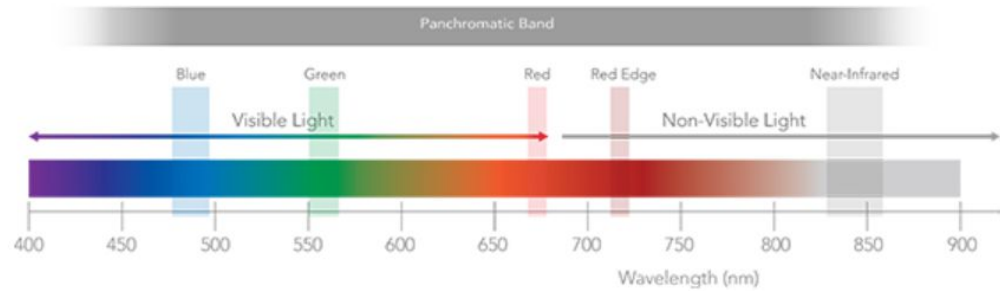
Outputs of Drone Surveying

Our highly accurate drone surveying outputs are helping customers across various sectors such as Roadway & Railway expansion (Corridor Mapping), Mining, Oil & Gas, Manufacturing, Industrial, Disaster Management and many more and also helps to build their businesses to a great height.



Five multispectral bands at 1.6 MP each

- Blue (475 nm center, 32 nm bandwidth)
- Green (560 nm center, 27 nm bandwidth)
- Red (668 nm center, 14 nm bandwidth)
- Red edge (717 nm center, 12 nm bandwidth)
- Near-IR (842 nm center, 57 nm bandwidth)





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Email: info@eagletronicsindia.com

Call: +91 9923779308

Website: www.eagletronicsindia.com

Eagletronics Aviation Private Limited