




# Deliverbot

# DB-3 Series



*Versatile  
Multi-Role UAV*

# DB-3 Series



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DB3 is designed to be a professional multi-purpose and versatile unmanned aerial vehicle. The technology built into the system making it one of the most advanced commercial UAV available in the market.

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## Search And Rescue

With its long endurance and capabilities to operate with a thermal sight, in both wet and dry weather makes DB3 the perfect tool for search and rescue operations. Find missing person in dense tropical forest or lost at sea, DB3 can operate both day and night at a moment's notice.



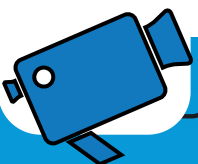
## Security and Surveillance

Deploying the UAV system as situation surveillance before manpower deployment, the remote launching platform allows routine patrol or intruder search in areas far away from centralised control. DB3 with its zoom thermal imaging camera allows operators to survey areas quietly without the target being aware of being monitored. Remote launching platforms are also capable of auto-charging to reduce the need for manpower onsite.



## Parcel Delivery

DB3's Long range and high precision flight system allows DB3 to deliver parcels/documents between locations reliably. Traversing between islands, forest, hills or internal building blocks within large compounds allows operators to deliver important parcels timely in an otherwise difficult terrain.



## Videography

With DB3's stable flight and robust build, it allows its pilot to a variety of videography projects. Whether to inspect areas difficult to access by normal means or shooting professional video DB3 is made for the job.

# DB-3 Series

Model	Weight (No Payload)	Payload Weight	MTOW	IP Rating	EMI Protection	Weather Conditions	Flight Time No Payload
DB3-Lite	3.3kg	2.7kg	6kg	NIL	NIL	Dry Only	60mins
DB3	3.8kg	2.2kg	6kg	IP43	Yes	Most Weather	53mins
DB3 Pro	4.2kg	1.8kg	6kg	IP65	Yes	Most Weather	40mins

UAVs are not designed to work underwater. Water resistant features protects core components during emergency flying over water bodies. Flight time is tested in a controlled indoor environment, data is only an approximate to other conditions.

Max. Altitude: 6000m  
 Cruising Speed: 20km/h  
 Max Speed: 50km/h  
 Terrain Following: Yes.  
 Max. Flight Range: As per flight time.  
 Operating Temperature: -10°C — 65°C

### Positioning:

Standard UAV is equipped with Dual GPS..

### EMI Resistance:

DB3 built in EMI protection enables it to safely fly across power grid and during lightning weather without interference, protecting it's crucial processing unit from Non-weaponized Electromagnetic Interference.

### Long Endurance:

With its long endurance brushless motor, advanced dry cell lipo and power balancing, our batteries are designed to fly more than 30% flight time than normal lipo batteries. This enables our flight system to operate long endurance flights in most weather conditions dry or wet.

### Wet Weather:

With DB3's Unique design, it is capable to operate in both wet and dry weather. Making it versatile for different types of missions.

### Flight Safety:

- 6 Rotors redundancy allows the UAV to maneuver over short distance to a safe spot and conduct emergency landing when one of the rotors loses thrust.

### Advanced Flight Controller:

With its redundancy design, multi sensory control the flight controller turns the flying vehicle into a technologically robust machine.



- DB3- Pro



- Long Flight Time



- Wet Weather

# Optional Add-on: Communication Module

Module	Range	Encryption	Transmission
433mhz/800mhz/ 915mhz/1.2ghz/ 1.4ghz	> 15km	Plain / 128 bit / 256 bit	Data/Video
2.4ghz/5.8ghz	> 2 km	128 bit / 256 bit	Data/Video
4G/5G		128 bit / 256 bit	Data/Video
Satallite		Plain	Data

DB3 can also be installed with standard RC controller, transmitter and receiver and analog video transmitter.

## Encrypted Communication / Smart system

DB3's secure communication system allows users to set up personalised keys with 128 bit or 256 bit AES encryption protecting DB3 from malicious hijacking. With its smart system DB3 can recognise legitimate commands, protect against network intrusion, prevent eavesdropping and Van Eck Phreaking. It also allows users to set up various contingencies when pilots lose control of the UAV. Other advanced security features can also be customised for corporate customers.



## High Precision Positioning

- DUAL RTK-GNSS for high precision positioning.
- Indoor Positioning System.
- Multi Dimensional Positioning System for accurate outdoor autonomous landing.

## Camera:

- CamD Digital/Analog waterproof Camera with 3 axles waterproof Gimbal.
- CamD+, Digital/Analog waterproof Camera mount on a 3 axle waterproof Gimbal with electronic lens zoom.
- Thermal Imaging Camera that allows users to see heat signatures.



- .Thermal

## Retractable Landing Gear:

- Retractable landing gear for unobstructed videography.



- Delivery

## Fall Protection:

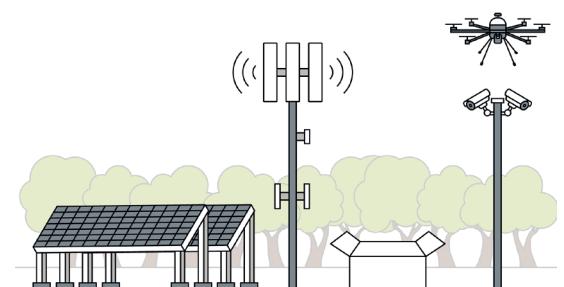
- Emergency Parachute.

## Remote Autonomous Deployment:

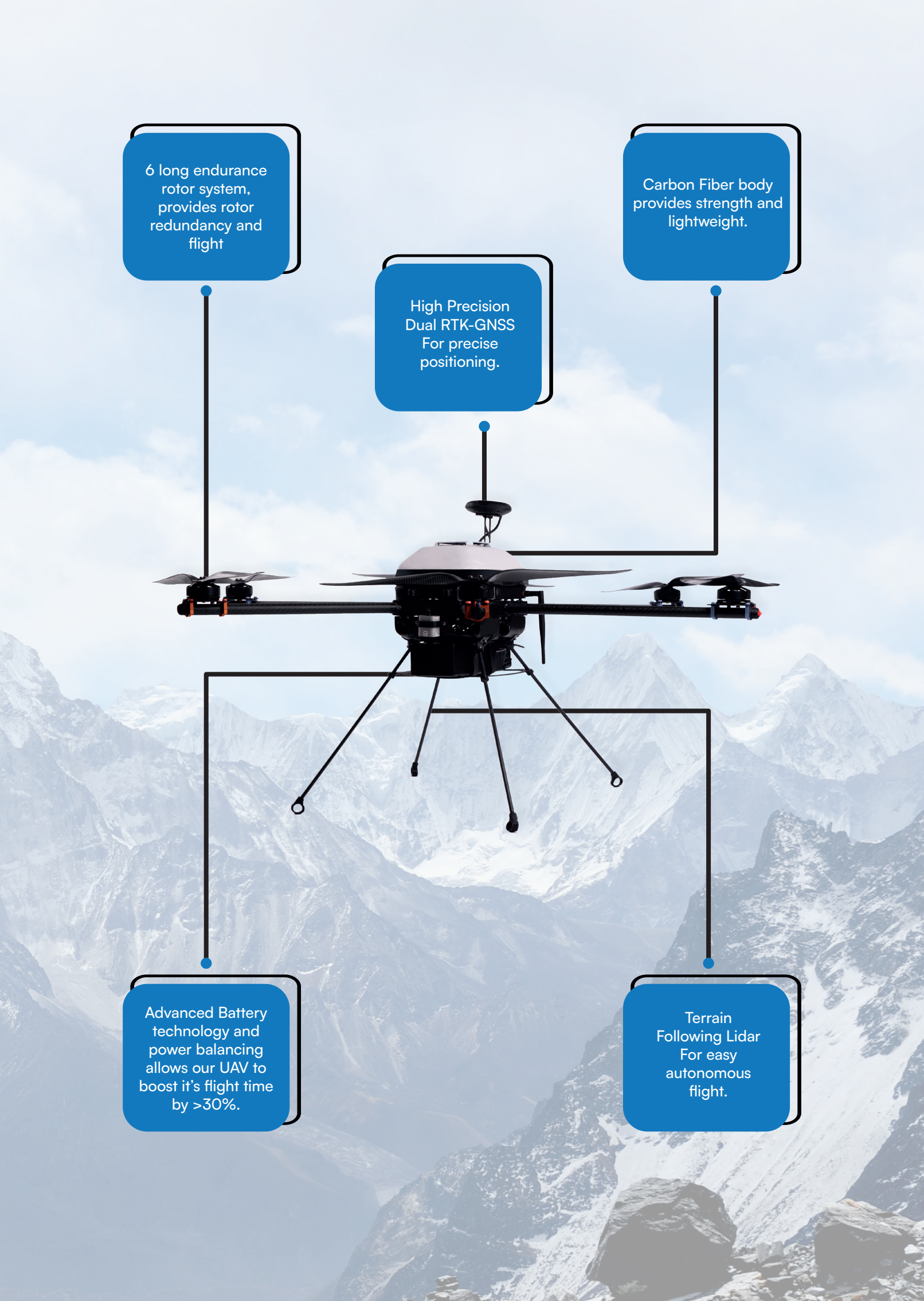
- - Auto Charging Pod for remote location launch and landing.

## Extreme Temperature:

- Hot/Cold Temperature module, allows it to operate in a more extreme temperature environment.



- Remote System  
Deployment



6 long endurance rotor system, provides rotor redundancy and flight

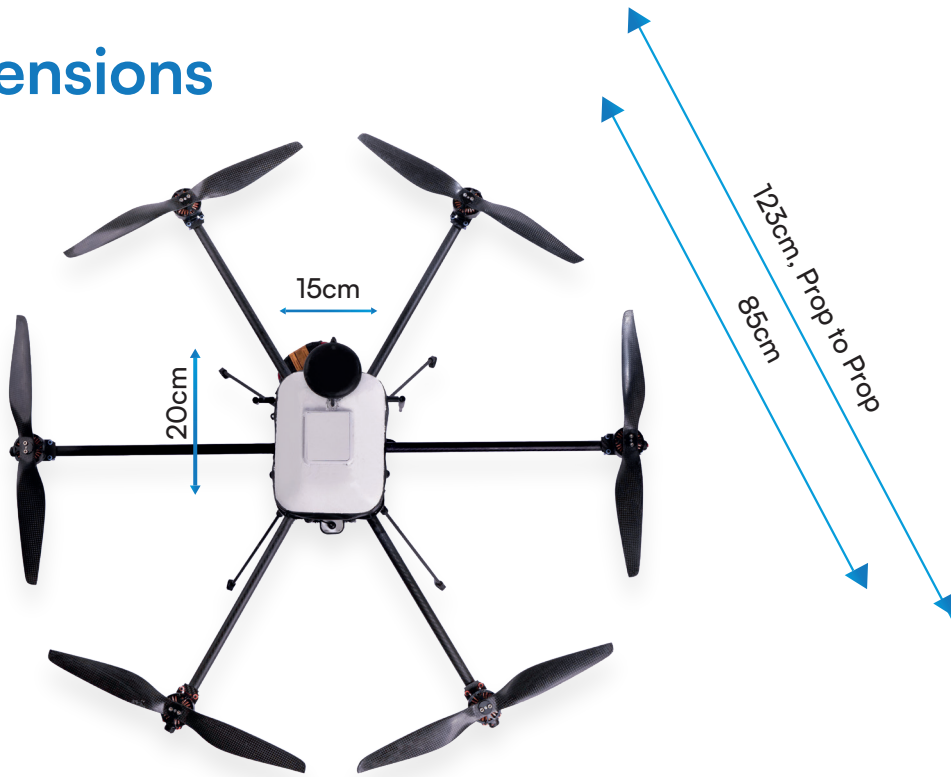
Carbon Fiber body provides strength and lightweight.

High Precision Dual RTK-GNSS For precise positioning.

Advanced Battery technology and power balancing allows our UAV to boost it's flight time by >30%.

Terrain Following Lidar For easy autonomous flight.

# Dimensions



Total Height 48cm  
Prop to Ground 40cm



## Technical Specification:

**Propeller size:** 15 inches  
**Body Structure:** Carbon Fiber  
**Onboard Sensors:** ICM-42688-P  
**Accel/Gyro:** BMI055  
**Accel/Gyro:** IST8310  
**Mag:** MS5611  
**Barometer:** 1 x 5V power Output  
 1 x 12V power Output  
 2 x LED Rotor Wing Lights, Red and Green

**Lidar Range:** 100metres  
**Navigation:** 2 x GPS or 2 x RTK GNSS  
**Battery Capacity:** 22.2V , 16,000mah  
 Intelligent smart battery.  
 6 x High Efficient Brushless Motor, IP67  
 6 x Professional Grade High Performing ESC,  
 IP67 All UAV are factory tuned, Tuning is not required. All UAV are ready to fly upon received.

**Package Includes:**  
 1 x UAV with any ordered add-ons attached.  
 1 x battery  
 1 x Tools set.  
 1 x Protective Case.

## Model Illustration: DB-3 V1

Actual model may look different on a different version and variant.

# DB-3 Series

**Deliverbot**



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