

# G-Wing VTOL

PROFESSIONAL MAPPING & SURVEYING DRONE SYSTEM

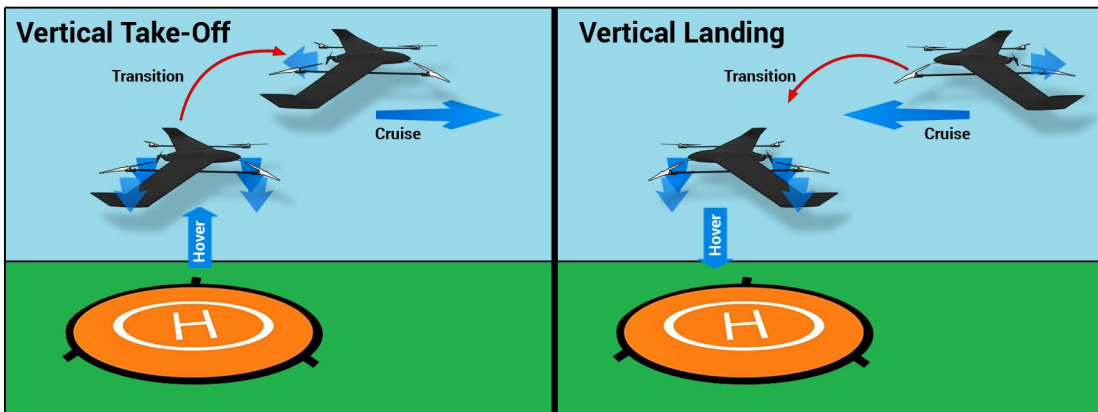
## Next Level In Drone Mapping Productivity



**RTK/PPK**  
GPS ready



### VERTICAL TAKE-OFF AND LANDING FORWARD WING

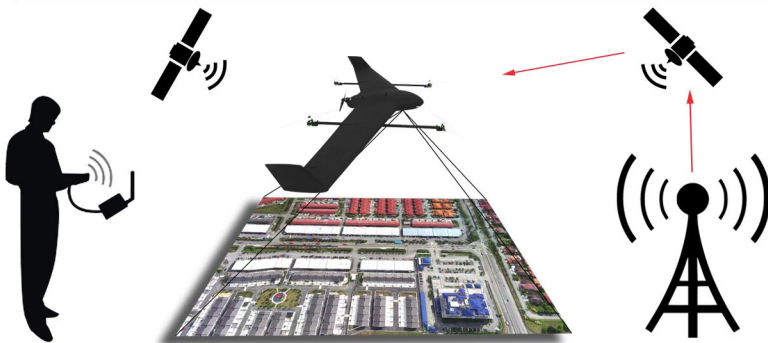


60 km travel distance\*\*  
60 minutes flight time\*\*

#### COVERAGE AREA\*\*\*

122m AGL	~230 ha
200m AGL	~360 ha
300m AGL	~540 ha

\*AGL (Above Ground Level)  
\*\*Below 500m (1640 ft.) from mean sea level at 5m/s (18kph or 11mph) wind speed  
\*\*\*Coverage area varied by camera model and percentage of image overlap



### G-STATION - User Friendly Flight Planning



#### OPTIONS

SENSOR



IMAGE PROCESSING



ANALYSIS & HOSTING



G-Wing is a modular lightweight vertical take-off and landing forward wing professional mapping and surveying drone platform. G-Wing designed and developed from years of experience in operating mapping drones. Risk of crash and lost in operating small drones are very high and eventually effect company productivity and profitability. VTOL reduces risks of hard landing during take-off and landing and provides extra fail-safe system during cruising mode. Adding extra drone lifespan, lower maintenance cost and maximizing the size of mapping coverage.

One of the main issues with typical hand launched fixed-wing drone is space requirement especially during take-off and landing, finding the right spot for drone launching and landing is time-consuming, directly effect productivity. With VTOL propulsion system, G-Wing can be launched and retrieved autonomously in a very tight area of 3m x 3m. Enable operation in constraint spaces such as in dense forest area, plantation, dense property footprint area (urban) and from the boat deck.

### AIRCRAFT

Length	750 mm
Wingspan	1254 mm
Datalink Range	5 km (line-of-sight no interference)
MTOW	2 kg
Max. Payload Weight	200 g (including mounting system)

### PAYLOAD OPTIONS

RGB Mapping	Sony RX0 (standard)
NDVI Mapping	MAPIR Multispectral
Thermal Imaging	FLIR Vue Series

### PERFORMANCE

Cruise Speed	60 km/h (33 knots)
Wind Resistance (Cruise VTOL)	30 km/h (16 knots)   15 km/h (8 knots)
Travel Length	60 km
Max. Endurance	60 minutes

### TELEMETRY

G-Station Frequency	433 Mhz   900 Mhz
Telemetry Coverage	5 km

# APPLICATIONS

- Mapping
- Plantation
- Surveying
- Forestry
- Mining
- Agriculture



Box System

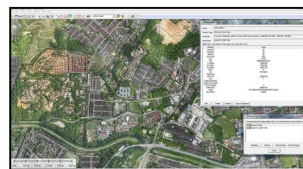
VTOL transitional algorithm is completely programmed by experience drone engineering team. Prior to commercialization, hundreds of flight hours were test-flown to improve the aircraft aerodynamic stability, efficiency, and performance. Reliable, durable and robust avionics firmware are chosen to make G-Wing as an impeccable drone for endurance mapping and surveying flight missions.

As in a fail-safe option, take-off and landing of G-Wing can be accomplished in two ways, manual radio transmitter control and autopilot assisted control. Flexiload system enable G-Wing user to change multiple options of payload between flights. The 200 grams limit of payload allow wide range of the camera to be mounted on the aircraft (Require compatible mounting bracket). G-Wing is designed with all the flexibility to maximize your drone mapping productivity while protecting the investment.

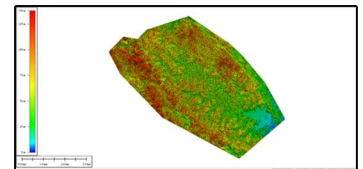


G-Wing VTOL for aerial mapping

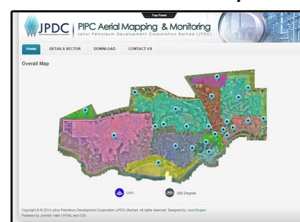
### GIS INTERGRATION



### DSM (DIGITAL SURFACE MODEL)



### WEB / MOBILE GIS



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