

DIMENSIONS



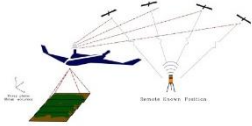
Length:	1500 mm
Wingspan:	2000 mm
Height:	600 mm
H-Length:	800 mm
Fuselage:	750 mm

SPECIFICATIONS

Operational Speed:	80-90 km/h
Stalling Speed:	60 km/h
Maximum Speed:	110 km/h
Operational Altitude:	up to 1000 m
Service Ceiling:	1500 m
Endurance:	up to 120 mins
Controllable Range:	up to 50 km
MTOW:	8.5 kg
Payload Weight:	1.0 kg
Materials:	Composites



RTK/PPK COMPATIBLE



Multi-Band RTK/PPT Receiver and Antenna
Accuracy up to 10 centimeters

GROUND CONTROL STATIONS AND COMMUNICATION SYSTEM



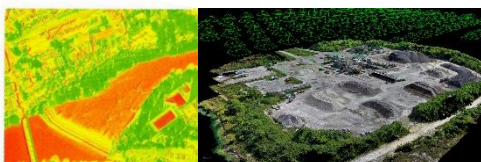
GCS Computer with hard case
Auto-tracking Antenna
Autopilot, Flight plan, RTL, Nav-mode, Semi-auto,
Fly-to, Flight termination and C2 during flight
Windows Based GCS Software

SENSORS AND PAYLOADS

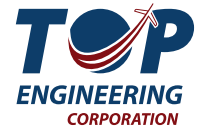
Aerial Mapping Sensor:	SONY A6100, RX1R-II Full-Frame
Agricultural Sensor:	Multispectral
Gimbal Payload:	EO/IR (Optional)



MISSIONS AND FLIGHTS CONTROLLER



Aerial Mapping, 3D Mapping,
NDVI, Agricultural, Air Surveillance
Fully – Autonomous Flight



PIGEON V COMPOSITES

Hybrid System

The combination of multi-rotors and fixed-wing enabling the long endurance with the vertical takeoff and landing capability.

VTOL

Vertical Takeoff and Landing capability allows the UAV to be able to takeoff and landing without the requirement of runways. The safely area requirement is only 5x5 meters.

Fully Autonomous

Flight Control System (FCS) is fully-autonomous including takeoff, transition, during flight, and landing. Semi-manual and fully-manual mode are also available in case emergency situations.

Transportation

UAV system is capable of disassembly into less than 1-meter parts including wings, fuselage, and tail section. The assembly time is only 15 minutes which on-field operation is convenient.

Advanced Datalink

The using of digital – encrypted datalink is secured and reliable with the auto-tracking antenna at the operational range of up to 60 km.