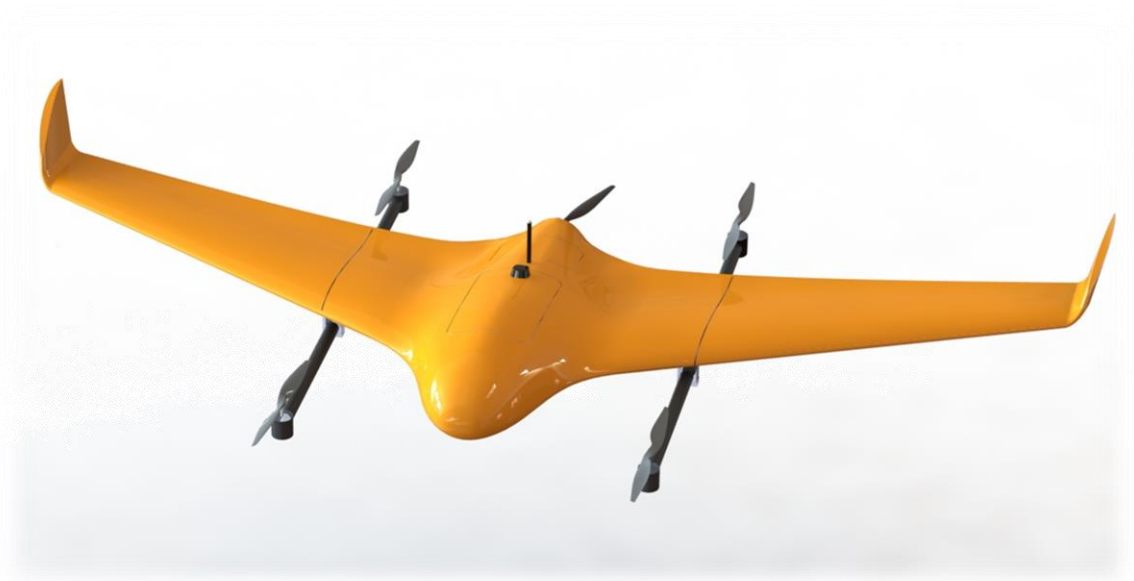




## SAMA VTOL UAV Catalogue



## Full specifications of the SAMA VTOL UAV

### SPEC

|                             |                                  |
|-----------------------------|----------------------------------|
| <b>Wingspan</b>             | 2.12 m                           |
| <b>Max Takeoff Weight</b>   | 6.5 kg                           |
| <b>Endurance</b>            | 60 min                           |
| <b>Range</b>                | 70 km                            |
| <b>Cruise speed</b>         | 70 km/h                          |
| <b>Max airspeed</b>         | 100 km/h                         |
| <b>Max alt (AGL)</b>        | 700 m                            |
| <b>Max wind resistance</b>  | 40 km/h                          |
| <b>Temperature range</b>    | -10 to 40 c                      |
| <b>Material</b>             | Fiberglass and honeycomb         |
| <b>Payload weight</b>       | 500 gram                         |
| <b>Battery</b>              | Li-Po                            |
| <b>Radio link</b>           | 10 km                            |
| <b>Automatic flight</b>     | yes                              |
| <b>Automatic triggering</b> | yes                              |
| <b>Takeoff type</b>         | Vertical                         |
| <b>Landing type</b>         | Vertical                         |
| <b>Failsafe</b>             | Battery , telemetry , Quad Chute |
| <b>Case Dimension</b>       | 95*75*26 cm                      |

### ✓ **The contents of the Package:**

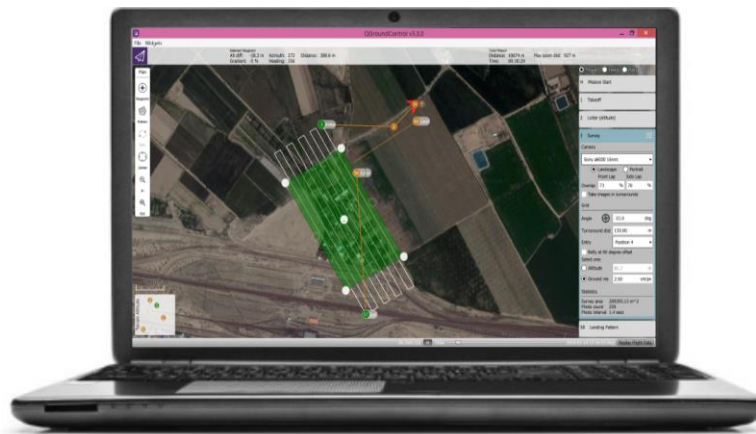
1. The main body included electronic equipment
2. Pair of detachable wings
3. 2-set Lithium-polymer battery
4. 24 Mp camera with low distortion fixed lens
5. GNSS PPK L1 system with software
6. Flight management software
7. Remote control & telemetry 10 km (2.4 GHz)
8. Battery charger
9. Aluminum box for shipping (Include UAV)
10. Pilot case (include accessories)
11. Manuals and training videos

### ✓ **Options:**

- 1- Sony alpha 6300 camera + 20 mm lens
- 2- Fujifilm X-A3 – 27 mm
- 3- Multispectral Micasense Rededge-M
- 4- FLIR Due pro



## GCS Software



With QGroundControl software you select the desired region, or import kml automatically flight path calculated with set the Photogrammetry parameters also the location of the automatic takeoff and landing can be determined.

### ✓ Features:

1. Ability to define multiple separate survey blocks
2. Ability to determine GSD
3. Wireless upload and download missions on SAMA UAV
4. Display Satellite map and display and terrain map of Google and Bing
5. Calculation of the duration of the mission, the number of photos and the range
6. Support cross planning for better 3d modeling
7. Support corridor planning
8. Support planning with DEM following
9. Safety features like RTL command



## User Manual

- ✓ Introduce the software and the menus
- ✓ Flight modes
- ✓ Check weather, wind and airspace
- ✓ Flight Planning (Takeoff, Flight, and Landing)
- ✓ Preliminary Preparation and Flight Check Lists
- ✓ Camera settings and embedding
- ✓ How to start mission
- ✓ Monitoring and control
- ✓ Disconnecting and retrieving information
- ✓ Geotagging and processing images
- ✓ Flight Safety and Emergencies
- ✓ Maintenance (battery - body structure and ...)

