



# DeltaQuad Pro **#MAP**

Industry leading VTOL mapping UAV



Coverage up to  
1200HA (3000AC)

A 61 MP mapping sensor together with a flight time of 110 minutes, adds up to an coverage of 1200Ha at 3/CM per pixel in one flight.



Highest image  
resolution: 61  
megapixel camera

We provide an option to add the highest resolution camera. Using the 61MP camera ensures you get the maximum possible coverage.



Corridor scans up to  
50 kilometer

Long range corridor scans are possible up to 50KM. If available, a 4G/LTE network can enable unlimited range and provide redundancy.



In-flight quality  
assessment through  
live video

Live video is available on the DeltaQuad controller. This way you can assess the quality of your mapping data during the flight.



Deployable in rain or  
snow

Smart technology gives the DeltaQuad the unique ability to safely fly in rain & snow.



Swappable payloads

Camera mounts & payloads are swappable. This enables you to save on your investment by not having to buy multiple UAV's.



Airborn within 2  
minutes

No pre-flight calibrations are necessary, this allows the DeltaQuad to be airborne in under 2 minutes.

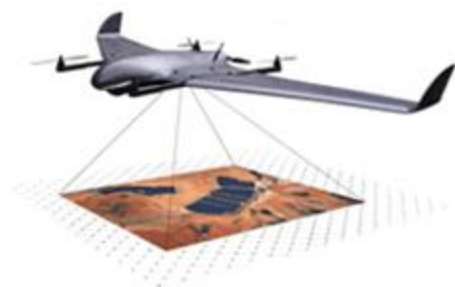


Fully autonomous

Fully autonomous missions from takeoff to landing, even beyond communication range

The DeltaQuad Pro #MAP provides actionable intelligence for agriculture using high quality camera sensors.

With our easy to use planning software you can easily define your survey area. It will automatically calculate at what altitude to fly, what pattern to perform and when to automatically trigger the camera. The DeltaQuad Pro #MAP will take off, fly the mission and return for landing completely autonomously.



### Orthomosaic mapping with up to 61MP cameras

Create orthomosaic maps and 3D models with resolutions below 1 CM per pixel

- ✓ Monitor growth and prospected yield
- ✓ Identify problems without damaging healthy crops
- ✓ Manage irrigation and minimize soil erosion
- ✓ Monitor vegetation and identify weak spots
- ✓ Accurately identify boundaries inventory

# Technical Specification

## Dimensions:

Wingspan	235 cm
Length	90 cm
Wing area	90 sq. dm.
Standard box dimensions	118 x 49 x 40 cm
Flightcase dimensions	114 x 48 x 44 cm
Payload bay	20 x 12 x 8 cm

## Weight and Payload:

Empty weight	3.3 Kg
Empty weight including battery	5 Kg
Maximum takeoff weight	6.2 Kg
Payload capacity	1.2 Kg

## Flight Characteristics without payload

Cruise speed	18 m/s (65 Km/h)
Maximum speed	28 m/s (100 Km/h)
Stall speed	12 m/s (43 Km/h)
Maximum flight time*	2+ hours
Range through air*	120 km



# Technical Specification

## Flight Characteristics at 1KG payload:

Cruise speed	16 m/s (60 Km/h)
Maximum speed	25 m/s (90 Km/h)
Stall speed	13 m/s (47 Km/h)
Maximum flight time*	1 hour 50 minutes
Range through air*	100 km

## Flight Characteristics with Auxiliary LiPo:

Payload capacity	400 g
Maximum flight time*	2 hour 45 minutes
Range through air*	150 km

## Power

Battery type	LiPo
Battery cells	4s
Battery capacity	23Ah

## Tolerances

Maximum takeoff/landing wind**	9 m/s (33 Km/h)
Maximum wind in cruise flight **	14 m/s (50 Km/h)
Maximum precipitation	Drizzle
Operating temperature	Between -20 and +45 Celsius
Maximum altitude	13.000ft (4000m)

# PAYLOAD

## Sony A7R mark IV

The Sony A7R mark IV combined with the Sonnar T 35mm lens offers 61MP resolution, fast shutter speeds and a high dynamic range. The speed of this system allows for < 1 CM/pixel resolution and this makes it our recommended mapping sensor.

61 megapixel 9504 x 6336  
Full frame sensor (35.9 x 24 mm)  
35 mm Focal length







## 42MP PAYLOAD OPTIONS

### Sony A7R mark III

The Sony A7R mark III combined with the Sonnar T 35mm lens offers 42MP resolution, fast shutter speeds and a high dynamic range. The speed of this system allows for < 1 CM/pixel resolution.

42 megapixel 7952 x 5304  
Full frame sensor (35.9 x 24 mm)  
35 mm Focal length

### Sony Cybershot RX1R mark II

The Sony Cybershot DSC-RX1R mark II camera combined with the Carl Zeiss 35mm lens offers 42MP full frame sensor.

42 megapixel 7952 x 5304  
Full frame sensor (35.9 x 24 mm)  
35 mm Focal length





**GCS**

## **Ground Control System**

20KM 900Mhz digital Data link 10 inch Android GCS  
The omnidirectional 900Mhz digital radio offers up to 20KM  
telemetry range.

This includes a 10 inch Android tablet for pilot operation  
This system does not stream live video.





#### Cover more ground

With the DeltaQuad Pro #MAP you can survey up to 1200Ha at 3cm per pixel in a single flight



#### Vertical Takeoff and Landing

It can takeoff and land in confined areas of 5x5 meters or more



#### RGB & Multispectral sensors

You can select several high quality RGB or multispectral camera sensors and swap them easily



#### Centimeter level accuracy with PPK

Equipped with PPK based DGPS on both air and ground for CM level accuracy



#### Fully autonomous

Fully autonomous missions from takeoff to landing, even beyond communication range



#### Simple survey planning

Plan your survey easily with touch screen satellite maps and automatic path generation



#### Automatic terrain following

Plan your survey over hills and mountains with automatic terrain following



#### Radio and/or mobile internet

Up to 50KM radio range or unlimited using the mobile network

## About YANMU

PT. Yanmu Indonesia (Yanmu) is a distributor and aerial surveys specialist. We market various types of drones and has a goal to become a leader in this field. Yanmu established since 2013 in Sleman, Yogyakarta, Indonesia. Yanmu is an active sole distributor in the marketing of drones for mapping needs, training on the use of drones and various other related services.

Currently, Yanmu has become the exclusive distributor for the products Sensefly, LiDAR USA and SMD.

For products reference and update please subscribe to our news letter at [www.yanmu.co.id](http://www.yanmu.co.id)

