Marlyn Plan with Precision

Marlyn Cobalt Metric V1.0 March 2021 Specifications subject to change without notice.

ΔΤΜΟS



Atmos is a technically advanced geospatial scale up, backed by a young team of innovative and dedicated problem solvers — based in Leiden, the Netherlands. Our passionate team is driven by the desire to advance new technologies which empower industries to plan for the future with accuracy and precision.

We specialise in high quality surveying and mapping VTOL drones, capable of operating in even the roughest weather conditions.



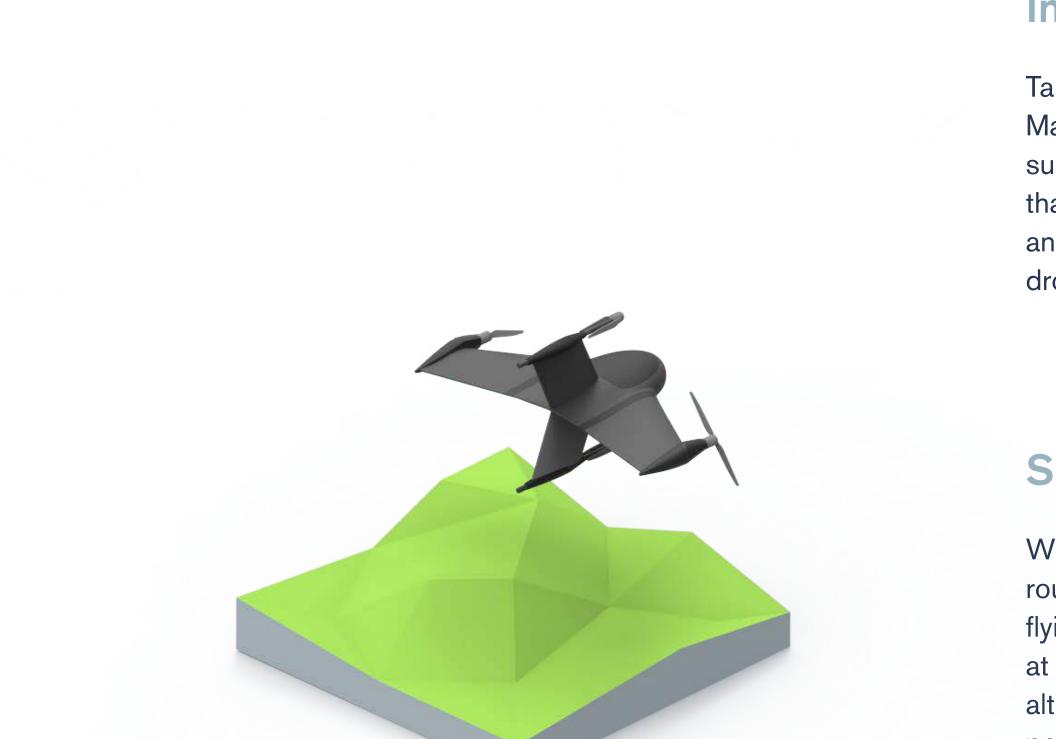
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How is Marlyn helping surveyors?



Increased Efficiency

Take your data capture to the next level. Marlyn speeds up your data capture by surveying large areas up to 30x faster than traditional land surveying methods, and up to 10x faster than Multicopter drones.

Survey Anywhere

Small take-off areas? No problem, Marlyn only needs a 2x2m flat area to take off and land allowing you to be flexible in your operations. Easy backpack transport is also perfect for those heading off the beaten track.

Survey Any Time

With Marlyn 'no-go' days are turned into routine projects. You get the benefit of flying in wind conditions of up to 45km/h at ground level, and 55km/h at cruise altitude resulting in up to 30% more days per month.

Absolute Accuracy

Accuracy is king in the surveying world. Attain accuracies as low as 1cm with Sony's 42MP, full-frame RX1RII combined with Septentrio's PPK module, an Aerial surveying match made in heaven!



Fly when others cannot

We know wind, we're Dutch! To handle rough conditions we've engineered Marlyn to operate in winds of up to 12.5m/s (45kph), which can result in up to 30% more surveying days each month!*

Marlyn is the UAV for those who need total control. The tail-fin and wingtip propellers give Marlyn stability in survey/airplane mode, while constantly correcting altitude to get sharp aerial images in the toughest of winds.



Advanced software you can trust.





No mapping drone is complete without a professional software package, and with Marlyn you get the best in the business.

Navigator

Plan your workflow intuitively and easily with the in-house-developed Navigator software. Navigator is your one stop shop for flight planning, pre-flight checklists, and flight operation, and is designed to be used without any live connection in the field, meaning you can venture into any survey environment with ease!

GeoTagger

Wave goodbye to long workflows, multiple sets of software, and complicated debugging. Assigning accurate positions to your flight images is easier than ever with GeoTagger. You simply select the folders from your different data streams, choose a processing type, and press Geotag!

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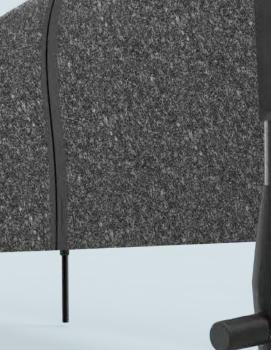
Meet Marlyn



Marlyn's three-part EPP foam body can be assembled by one person in a minute. It is rugged, flexible, and recyclable.

Fly in the Toughest Winds, up to 45km/h

With Marlyn you can take off, survey, and land comfortably in winds of up to 45km/h (28mph), more than any other survey drone. Surveyors deserve better than 30km/h wind limits!



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Operate from Any 2x2m Area

Take off like a Helicopter and Fly like an Airplane. With Marlyn you can operate from anywhere and cover up to 150Ha (370 Acres) per flight. No more finding large clear areas for belly landing!

1. Atmos Autopilot

No stress, with our custom Auto Pilot your flight is automated from take-off to landing.

2. Smart Battery System

Marlyn's redundancy system gives you peace of mind: one battery functions as a failsafe for the other and can bring Marlyn home if necessary. Handy indicator lights also provide a readout of the current State of Charge.

3. Quick Swap Payloads

In the field you can switch sensors in a minute. With Marlyn's quick swap camera system you're ready for any project!

4. PPK

With an integrated high-end GNSS receiver, our PPK module gives Marlyn absolute X, Y, Z accuracy down to 1cm.



Applications





Contruction & Infrastructure

Marlyn changes the game for land surveyors delivering operational efficiency, reduced downtime, and increased safety.

Surveying & GIS

Compared to terrestrial survey methods, a drone survey yields a point cloud of millions of cm-accurate data points over a 150Ha area, giving you complete data coverage and a

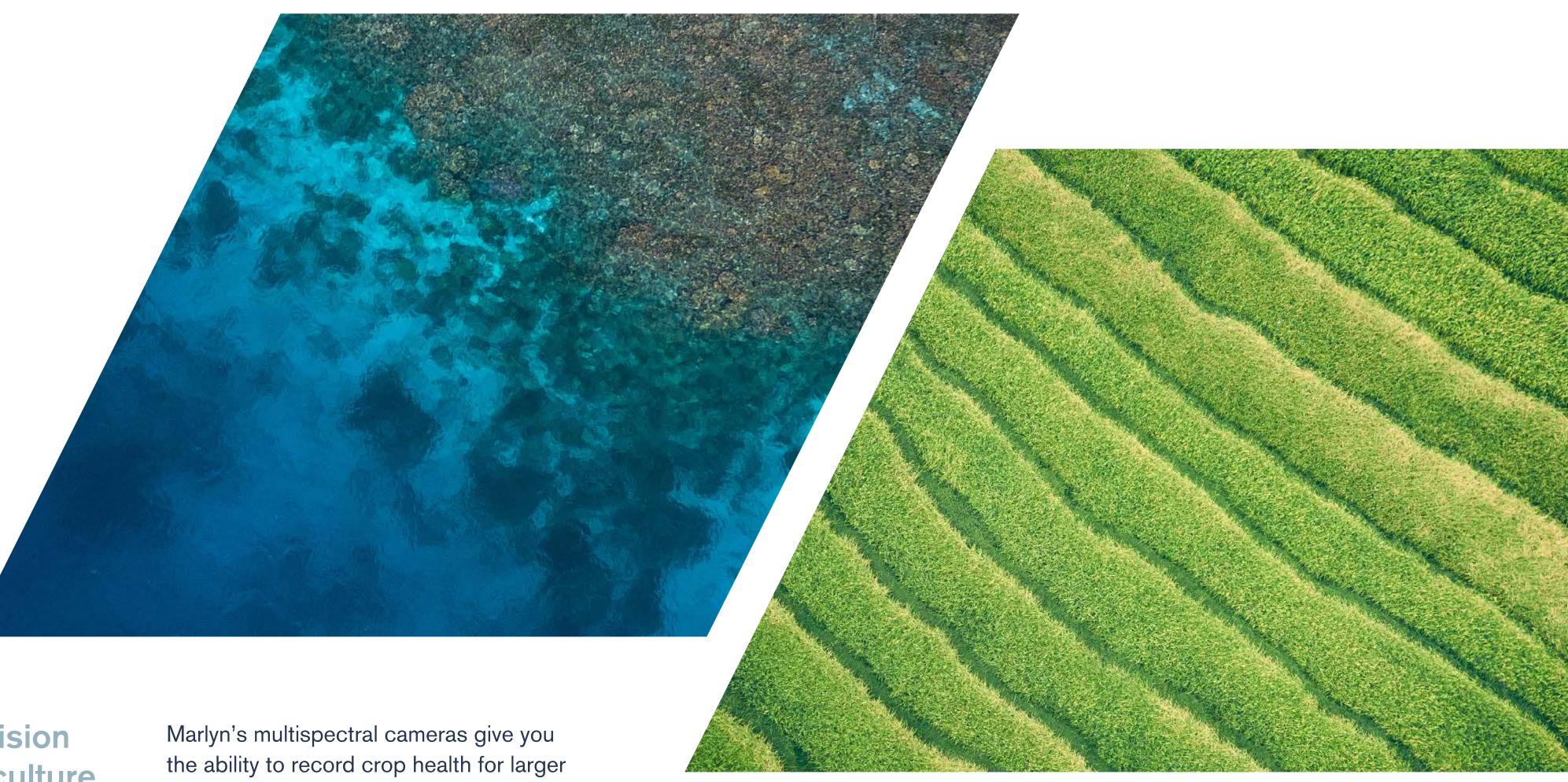
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Applications

Environmental Protection

Marlyn is capable of seeing beyond the visual, providing new insights into plant health, animal behaviour, and more, that was previously thought impossible. This allows you to glean a variety of data to both monitor and provide corrective actions to your study area.



Precision Agriculture

terrains. Light reflectance in the visible and invisible spectra are used to determine plant stress on an individual level.

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Cameras

Modular System for In-Field Swaps

Be ready for anything — Need an accurate DSM followed up by a multispectral survey? With Marlyn's quick swap camera system you're ready to fly in just a minute.



RGB





Sony RX1RII

Sony A7C

Sensor Layout	Full Frame	Full Frame
Spectral Bands	RGB	RGB
Pixel Count	42.4 MP	24.2 MP
Lowest GSD	0.85 cm/px	1.7 cm/px

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Micasense Altum

Micasense RedEdge-MX

Sensor Layout	5 individual sensors + FLIR LWIR	5 individual sensors
Spectral Bands	RGB, Red Edge, NIR	RGB, Red Edge, NIR
Pixel Count	5 x 3.2 MP	5 x 1.2 MP
Lowest GSD	3.7 cm/px	6 cm/px

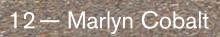
Included with Marlyn



Survey anywhere with Marlyn's dedicated backpack.

Radio Connections	Marlyn Radio Module & Spektrum RC
Battery Charger	ISDT Double Charger (60min per pair)
Batteries	2 Sets — Each below 100Wh
Portability	Backpack & Accessories Case
Software	Navigator & GeoTagger









More surveyors are choosing Marlyn

"I wanted a reliable solution with high wind resistance. That's why I chose Marlyn."

Joaquim Borges de Macedo

Coordinator of Topography CJR Renewables

"The images are amazing. Superb resolution and well geolocated!"

Luis Vilasa

Senior Software Engineer CGI

"Marlyn's flexibility cuts our operational time in half by providing us with a huge amount of savings in both resources and equipment."

Pieter Franken

Managing Director Terra Drone Europe

> "Atmos' support gives us confidence that they have our back in a fight and that's exactly what we require in our fast paced operations."

Douglas Reid

Equipment Manager Cyberhawk

Maximise your surveying potential

Marlyn is sold and supported through a global network of quality distributors.

As industries around the world discover the wide ranging benefits of Marlyn, our international network of dealers continues to expand.

To locate an Atmos dealer or to organise a demo visit: www.atmosuav.com







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