

Marlyn Cobalt

AUTHORISED DEALER

TOPCON
SOLUTIONS
Store

MARLYN COBALT USA V1.0 AUGUST 2023
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

ATMOS



Atmos is a leader in geospatial drone technologies. With a deep awareness of our future challenges in resources, population growth, and climate change, our team of dedicated problem solvers are working hard to help you plan with efficiency, accuracy, and precision.

Atmos specialises in high quality surveying and mapping VTOL drones, capable of operating in the roughest weather conditions.

Their flagship product Marlyn Cobalt is proudly designed, engineered, tested, and manufactured from their headquarters in The Netherlands.



Plan with
precision.

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How is Marlyn helping surveyors?

INCREASED EFFICIENCY

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

Marlyn only needs a 7x7ft flat area to takeoff 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 you get the benefit of flying in wind conditions of up to 28mph at ground level, and 35mph at cruise altitude resulting in double the amount of useful days per month.

ABSOLUTE ACCURACY

Attain sub-inch level accuracies with Sony's 61MP full-frame A7R IV, combined with Topcon's PPK module, an aerial surveying match made in heaven!

Fly when others cannot.

Atmos knows all about wind, they're Dutch! To handle rough conditions they engineered Marlyn to operate in winds of up to 28mph, doubling your surveying days each month!*

Marlyn is the UAV for those who need total control without compromising on data quality. The wingtip mounted propellers and large tail-fin give Marlyn stability in survey/airplane mode, while constantly correcting attitude to get sharp aerial images in the toughest of winds.

*COMPARED TO COMPETING PRODUCTS
& DEPENDING ON LOCATION



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

Navigator

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!



Fly with Confidence



AUTOMATED FLIGHT

Marlyn is designed to be used even as a first-time drone. That is why all elements of the flight from takeoff to survey to return to home, are completely automatic. Landing is done easily by the user.



MANUAL FLIGHT TAKEOVER

Be ready for absolutely any scenario! At every step of the flight Marlyn is capable of being taken over for position-controlled flight in both helicopter or airplane mode.



HOLDS HELICOPTER POSITION

Marlyn hold its GPS position during helicopter mode. This provides peace of mind and soft touchdowns when flying in high winds or challenging locations.



QUAD-CHUTE MODE

If Marlyn flies within 98ft of the takeoff altitude, it automatically transitions into helicopter mode, making it impossible to steer Marlyn into a dangerous position.



REMOTE ID

All Marlyn Cobalt users are backed with an FAA approved Remote ID module that guarantees legal operations in the United States and elsewhere.



GEOFENCE

Use a height and/or circumference-based Geofence to ensure that Marlyn is always flying clear of sensitive areas.

MARLYN'S BACKPACK

With Marlyn's included backpack you can survey from the most remote and challenging locations with everything you need for the survey.

OPERATE FROM ANY 7X7 FT AREA

Takeoff like a helicopter and fly like an airplane. With Marlyn you can operate from anywhere and cover up to 650 acres per flight. No more finding large clear areas for belly landing!

TAILSITTER DESIGN

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

SAFETY LIGHTS

The built-in smart navigation and anti-collision lights give you visibility in the air, and turn off automatically to signal when the drone is off and safe to approach.



Key Hardware

A

ATMOS AUTOPILOT

No stress, with our integrated AutoPilot your flight is automated from takeoff to landing.

B

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 when necessary. Handy indicator lights also provide a readout of the current State of Charge.

C

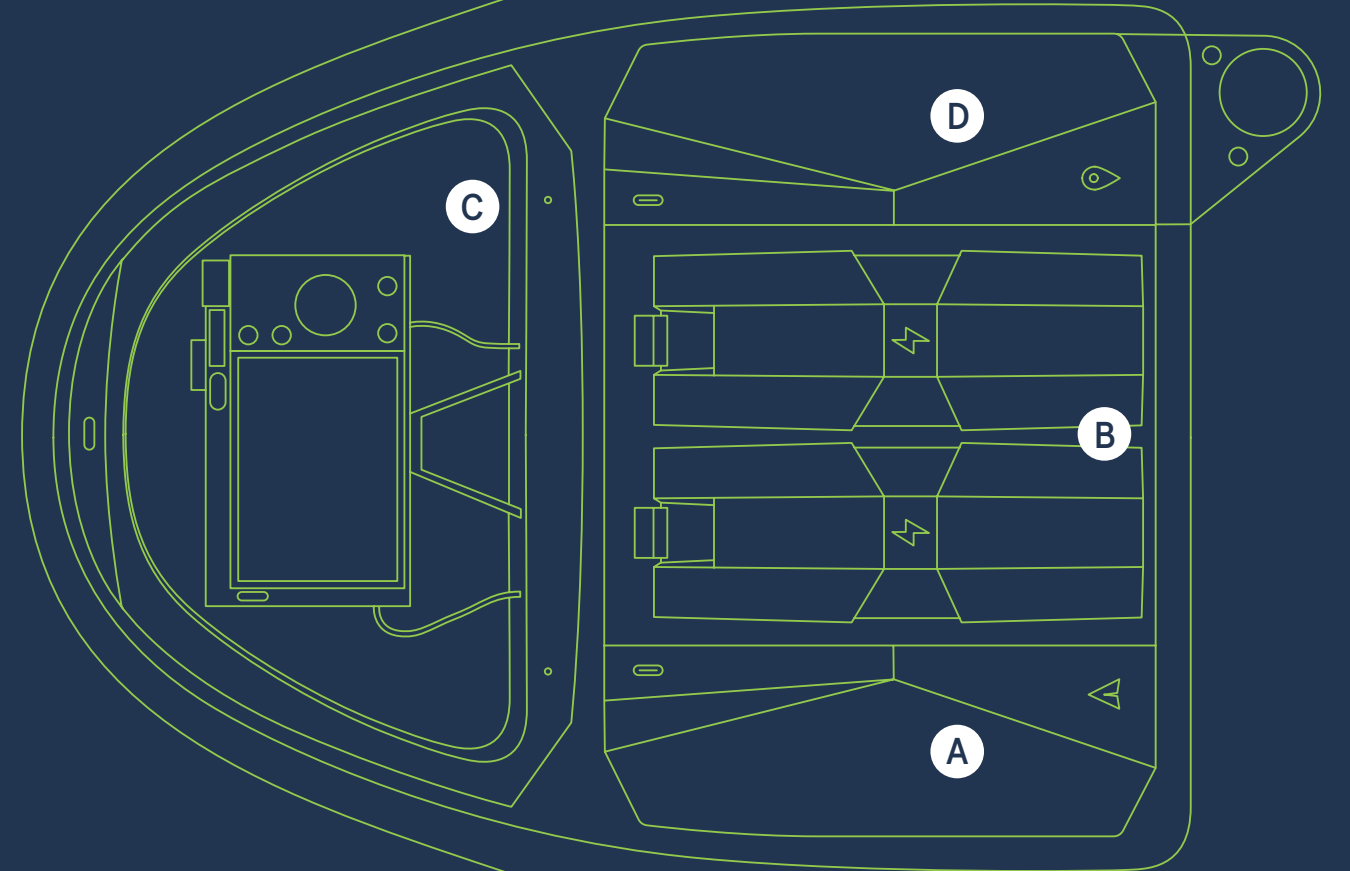
QUICK SWAP PAYLOADS

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

D

TOPCON PPK MODULE

The integrated high-end GNSS receiver of Topcon results in absolute sub-inch accuracy levels on X, Y and Z for maps and 3d-models generated by Marlyn



POWERED BY



Applications



AERIAL IMAGE CAPTURES BY MARLYN

The most versatile and capable VTOL fixed-wing survey drone. Marlyn is ready for your project.

CONSTRUCTION & INFRASTRUCTURE

Marlyn changes the game for land surveyors. Delivering operational efficiency, reduced downtime, and increased safety. With PPK, accuracies down to sub-inch level are easily achieved with fewer to no ground control points.

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.

SURVEYING & GIS

Compared to terrestrial survey methods, a drone survey yields a point cloud of millions of sub-inch accurate data points over a 650 acres area each flight, giving you comprehensive data coverage and a big efficiency boost.

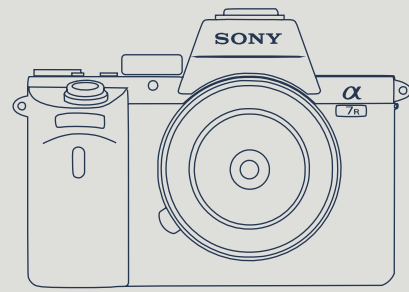
PRECISION AGRICULTURE

Marlyn's multispectral cameras give you the ability to record crop health for larger terrains. Light reflectance in the visible and invisible spectra are used to determine plant stress on an individual level.

MINING & AGGREGATES

Marlyn eliminates the need for surveyors to move around the pit, minimising downtime and improving safety. Large, accurate data sets can be created with less man hours, at reduced costs.

With Marlyn's quick swap camera system you're ready to fly in just a minute.



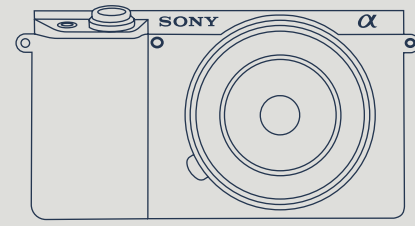
SONY
A7R IV

FULL FRAME

RGB

61.0 MP

LOWEST GSD:
0.5IN/PX



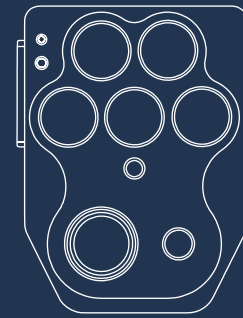
SONY
A6100

APS-C

RGB

24 MP

LOWEST GSD:
0.8 IN/PX



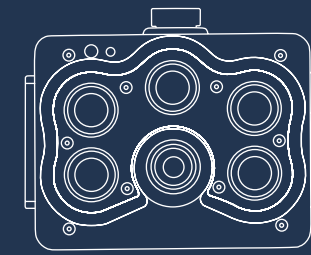
MICASENSE
ALTUM PT

5 INDIVIDUAL SENSORS
+1 PANCHROMATIC SENSOR
+ FLIR LWIR

RGB, RED EDGE, NIR

SPECTRAL 3.2 MP
PANCHROMATIC 12 MP
LWIR 0.8 MP

LOWEST GSD:
0.7IN/PX



MICASENSE
REDEGE P

5 INDIVIDUAL SENSORS
+1 PANCHROMATIC SENSOR

RGB, RED EDGE, NIR

SPECTRAL 1.6 MP
PANCHROMATIC 5.1 MP

LOWEST GSD:
1IN/PX

Included with Marlyn

RADIO CONNECTIONS MARLYN RADIO MODULE & CONTROLLER

BATTERY CHARGER DOUBLE CHARGER (60 MIN PER SET)

BATTERIES 2 SETS (4 BATTERIES) – EACH BELOW 100WH

PORTABILITY BACKPACK & ACCESSORIES CASE

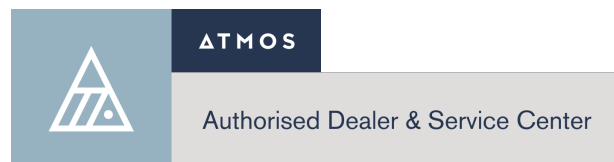
SOFTWARE NAVIGATOR & GEOTAGGER (+ UPDATES)

TRAINING ACCESS TO OUR ONLINE LEARNING PORTAL

ONE STOP SHOP

As the authorised dealer, trainer and service center of Atmos in the USA we've got you covered from purchasing to training and performing maintenance on the equipment.

Ask your nearest Topcon Solutions store for more information.



Survey anywhere with Marlyn's dedicated backpack.



IT'S JUST LIKE A DJI,
VERY EASY TO FLY!

TOMAS JAHODA - DRONPRO

I'VE FLOWN AND
ANALYZED DATA FROM
THREE MANUFACTURERS,
BUT MARLYN IS BY FAR
THE MOST ACCURATE!

CAIUS BEZNOSZKA - BLACK LIGHT

MARLYN'S PERFORMANCE
COMBINED WITH TOPCON'S
GNSS BOARD AND CORRECTION
SERVICES WILL GIVE USERS
UNPRECEDENTED RESULTS.

IAN STILGOE -
TOPCON POSITIONING GROUP

MARLYN MADE THAT
LOOK EASY!

ALEC CAMPBELL - CYBERHAWK

SO MUCH MORE STABLE IN
THE WIND THAN THE EBEE.

JAAP DE VOS - VAN OORD

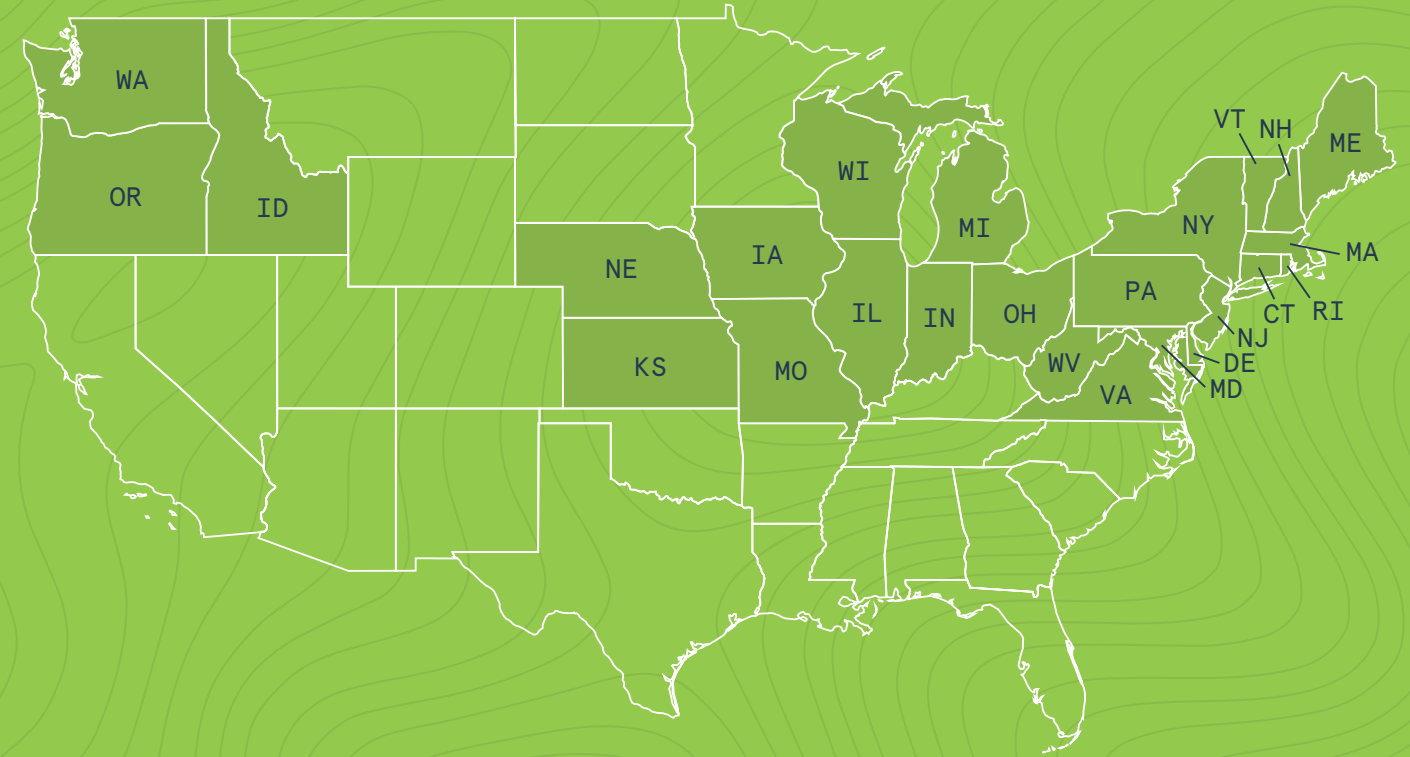
MARLYN'S FLIGHT IS
FANTASTIC, VERY SMOOTH
TO TAKEOFF, VERY SMOOTH
TO LAND.

KYLE CANNING - VOLATUS

THE ZEISS LENS WITH
THE SONY A7RIV RESULTS
IN HUGE COVERAGE WITH
IMPRESSIVE LEVEL OF
DETAIL WHEN COMBINED
WITH MARLYN.

MAARTEN ZWARTS -
FACULTY OF GEOSCIENCES
UTRECHT UNIVERSITY

Contact your nearest Topcon Solutions Store to learn more.



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Made in Europe



PROUDLY DESIGNED, ENGINEERED,
AND MANUFACTURED IN THE NETHERLANDS.

Authorised dealer, trainer
and service center of Atmos.

Topcon Solutions Store

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