

AVEM

Unmanned Aerial System for photogrammetry
and monitoring on large areas and linear
networks infrastructures

AEROMAPPER

MADE IN FRANCE



42

MEGAPIXELS

The resolution of the
embedded imaging sensor,
operating in the visible or
near infrared spectrum



BLOS

LONG-RANGE

The AVEM is approved
for Beyond-Line-Of-Sight
operations and covers very
large areas



3

HOURS

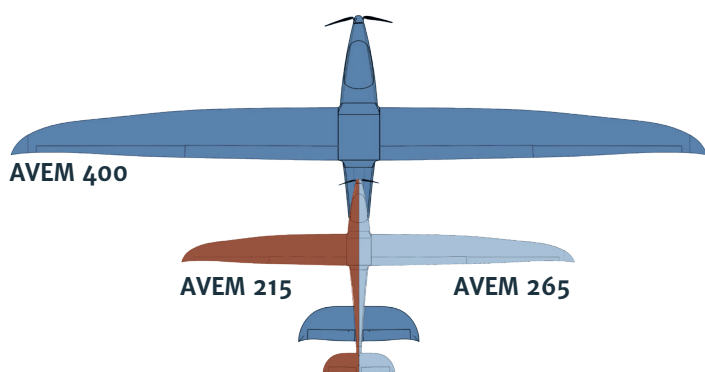
This best in-class
flight time available on the
AVEM allows to efficiently
cover hundreds of hectares



4

KM²/HOUR

The AVEM hourly
productivity, at 150 meters
and with a GSD of 1,9
centimeters

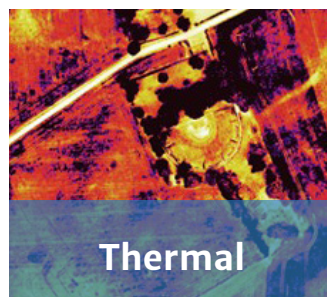


AVEM 215 AVEM 265 AVEM 400

Endurance	2h	2h30	5h
Wingspan	2.15m (7 ft)	2.65m (8.7 ft)	4m (13 ft)
Max Weight (MTOW)	2kg (4.4 lbs)	3kg (6.6 lbs)	8kg (17.6 lbs)
Payload	0.5kg (1 lb)	1kg (2.2 lbs)	2.3kg (5 lbs)
Cruise Speed	60 km/h (17 m/s)	65 km/h (18 m/s)	75 km/h (21 m/s)
Wind Resistance	36 km/h (10 m/s)	40 km/h (11 m/s)	50 km/h (14 m/s)
Deployment Time	8 min	10 min	12 min

Radio range of 15km under 500 feet

Embedded sensor options



MISSION PLANNING



Easy

Forget complex calculation, Aeroplanner plans your missions in a few clicks and integrates your specifications in a simple and intuitive way



EFFICIENT

A few minutes are enough to integrate all the mission and field parameters, and efficiently prepare your flight plans



POWERFUL

Aeroplanner integrates all the tools needed to complete your mission and comply with all the requirements of your customer

Sensor Specifications

Standard sensor	Sony RX1RII
Spectrum	R-V-B / PIR-V-B
Focal length	35 mm or 50 mm
Definition	42 MPx

GROUND STATION AND FLIGHT MONITORING



With a carry case, you can safely and easily move your ground station around the world

Running on rechargeable batteries, the ground station is designed to be very easy to use

The control interface has been developed following aeronautical codes and guarantees absolute safety

After a short training, the pilot will be comfortable with the interface, ready to operate the AVEM in all conditions

Imaging characteristics

Flight altitude	Definition	Productivity*	Acurency (x,y)
80 m	1 cm	2 km ² / h	3 cm
120 m	1.5 cm	3 km ² / h	4.5 cm
150 m	1.9 cm	4 km ² / h	6 cm
500 m	6.4 cm	14 km ² / h	18 cm

*With standard 45% lateral overlap

IMAGING PRODUCTS



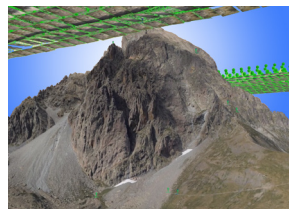
Orthophotoplan

- Between 1 and 3 cm definition
- Productivity up to 4 km²/h
- Excellent precision: embedded PPK



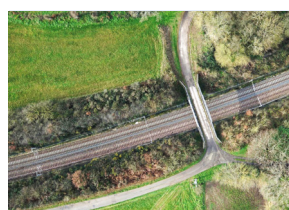
Agriculture imagery

- Multispectral sensor
- NDVI
- NDRE
- Up to 5km²/h



3D modeling

- Excellent precision: embedded PPK
- Crossed flight plan
- 2.5 km²/h productivity



Network monitoring

- Up to 100km per day
- 2-pass flight allowing 3d reconstruction
- Thermal inspection