



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 flights 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

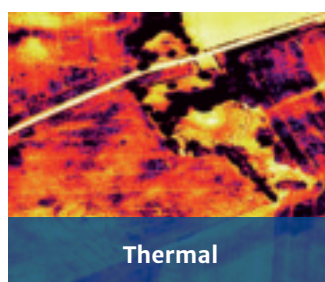
The AVEM hourly productivity, at 150 meters and with a GSD of 1,9 centimeters.

Technical specifications

Approvals	BLOS Certified
Autonomy	3h00
Wingspan	2.14 m
Maximum weight	2000 g (in France)
Payload	< 500 g
Take-off	Launched by hand
Guidance	Automatic
Cruising speed	65 km/h

Wind resistance	40 km/h
Radio range	15 km
Maximum altitude	3500 m
Installation Time	< 10 mn
On-axis precision	+/- 2 m and +/- 2°
Distance travelled	195 km/flight
Covered area 150 m	400 ha/hr
Landing surface	Min 5x20 m

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

GROUND STATION AND FLIGHT MONITORING



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

Running on rechargeable batterie, 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.

Sensor specifications

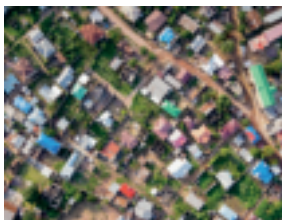
Standard sensor	SONY RX1R II
Spectrum	R-G-B / NIR-G-B
Focal	Carl Zeiss 35 mm
Definition	42,4 MPx full frame
Resolution	From 0.8 cm / px
Accuracy after post-treatment	x,y : +/- 3cm ; z : +/- 6cm

Imaging characteristics

Flight Altitude	Definition	Productivity*
80 m	1 cm	2 km ² / h
120 m	1.5 cm	3 km ² / h
150 m	1.9 cm	4 km ² / h
500 m	6.4 cm	14 km ² / h

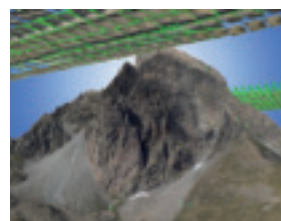
* With standard 45% lateral overlap

IMAGING PRODUCTS



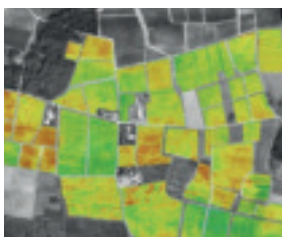
ORTHOPHOTOPLAN

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



3D MODELING

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



AGRICULTURE IMAGERY

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



NETWORK MONITORING

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