AVEM

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

AEROMAPPER
GEODATA FOR YOUR BUSINESS

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

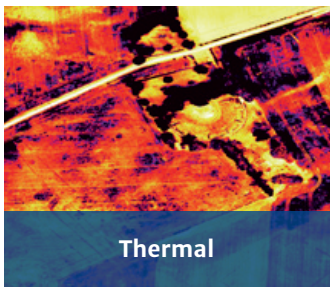
Approvals	*BLOS Certified*
Autonomy	*3h00*
Wingspan	*2.14 m*
Maximum weight	*2000 g (in France)*
Payload	*< 500 g*
Take-off	*Launched by hand*
Guidance	*Automatic*
Cruising speed	*65 km/h*

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

R-G-B
Visible spectrum


Multispectral


Thermal


Live HD Video

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

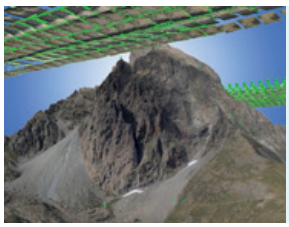
Flight Altitude	*Definition*	*Productivity**
80 m	*1 cm*	*2 km² / h*
120 m	*1.5 cm*	*3 km² / h*
150 m	*1.9 cm*	*4 km² / h*
500 m	*6.4 cm*	*14 km² / h*

** With standard 45% lateral overlap*

IMAGING PRODUCTS

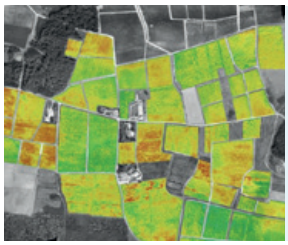
ORTHOPHOTOPLAN

- 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

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