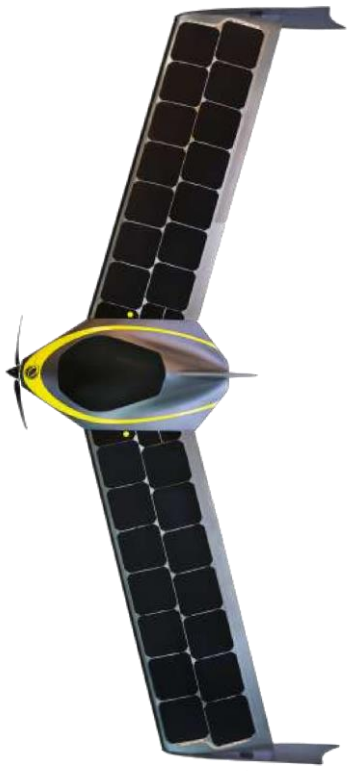
UAVINSTRUMENTS

Cies-2.2 SP

Unmanned Aerial Vehicle
For photogrammetry, surveying, reconnaissance and y precision agriculture.

- Photogrammetry y topography works
- Remote recognition and detection
- High performance solar panels



- Easy to operate: catapult take off, autonomous flight and automatic landing with parachute.
- It incorporates a PPK system which alows centimeter precision, with a lower density of support points.
- Autonomous flight procedures.
- Advanced "Fail-Safe" options.
- Up to 10 hours of autonomy.
- 28 high-performance solar cells that provide 48 Wh and give us an extra 480 minutes of flight time.
- Flight over mountainous terrain.
- Withstands gusts of wind of up to 50km/h.
- Rain and dust proof. (IP43).
- Robust, highly resistant design.
- Monobloc fuselage built in high-quality composite quality.
- Multiple payload options:
  - RGB SONY UMC R10C, 21 Mp (standard equipment).
  - Multiespectral sensors: Micasense Altum/Red Edge.
  - Thermal, IR.
  - Gas sensors.

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TECHNICAL ESPECIFICATIONS

MMA (máximum mass at take-off)
4,0 Kg

Wingspan
220 cm

Length
73 cm

Autonomy
Up to 10 hours: 120´ batteries + 480´
p High performance solar panels.

Scope
15 Km (expandable up to 100)

Cruising speed
45 - 55 Km/h

Maximum Flight
75 - 80 Km/h

Maximum wind component
50 Km/h

Protection
IP43

Maximum payload
500 g

Operating Temperature
-25º to +45ºC

- Easy handling thanks to its specifically designed command station.
- Possibility of incorporating HD transmission of images or video in real time.
- Easy to transport and store.
  Robust carry-on bag for transport.
- Optional Equipment :
  - Transponder for the detection and avoidance of other aerial vehicles.
  - Posibility of incorporating high gain antenna.
  - Navigation lights and high visibility stickers.
  - Customizable decor.

CIES GCS

UAV LAUNCHER

UAV Instruments S.A. Rua dos padrons 4 (Vial 3) Parque Empresarial Porto do Molle
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High performance UAV launcher

For professional UAVs up to 5 Kg. Prepared to fulfill all proffesional uavs requirements. Customizable aircraft interface.

A design made to last

High performance uavs elastic launcher made of robust stainless steel and aluminium with folding parts to allow an easy one man transport.

Ground Control Station

An ultra-portable control system valid for all our products. The supplied case incorporates Built-in electronics and data radio module. The ultra-high-definition widescreen display on 12" is ready for outdoor use in high light conditions.

Fully custom software

The control system incorporates a 128 Gb Microsoft Surface Pro 7 which facilitates its handling. Possibility of incorporating HD video and image transmission in real time.

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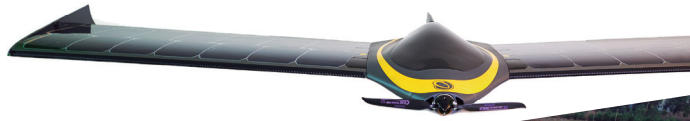
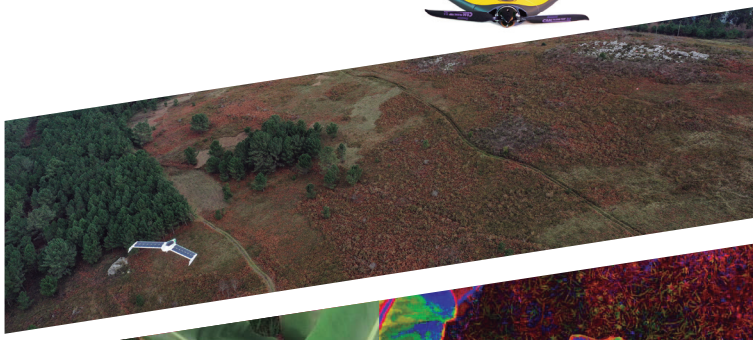
CÍES 2.2 SOLAR POWERED

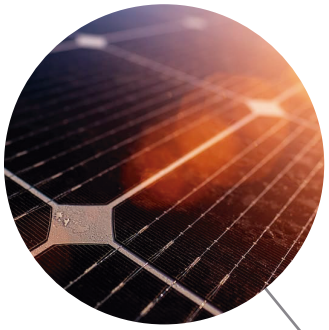




ONE DRONE, MULTIPLE USES...

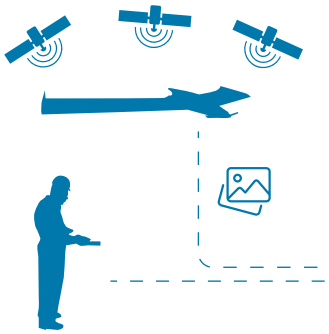
Up to 10 hours of endurance

High-performance solar panels provides several extra hours of autonomy, according to weather conditions. This allows to cover vast areas without landing, which is extremely useful for flying over open-cast mines or hard-to-reach forests.



Easy to operate

CIES is an easy-to-operate system that only requires a few days of training for new operators due to its simple method of catapult take-off, autonomous flight and automatic landing via parachute.



Precise positioning

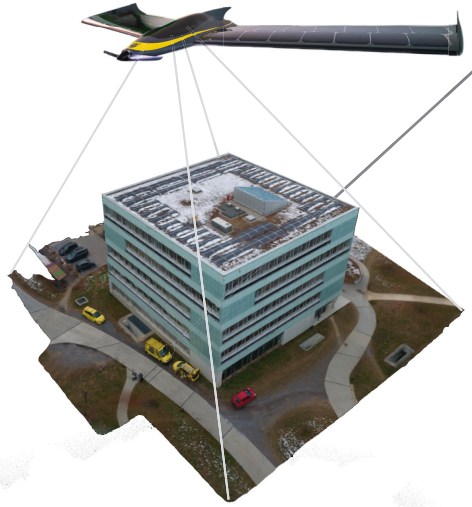
It incorporates a PPK system that achieves centimeter precision, with a lower density of ground control points.

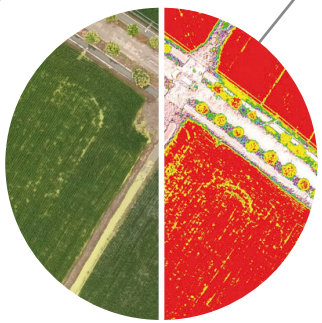
Multiple payload options

The new design of the bay offers great space to accommodate payloads as MicaSense Rededge¹, MicaSense Altum² or Wiris Agro R³, its robust fuselage is built in a monobloc structure of Kevlar and high-tech composites.

Photogrammetry (Cíes Geo)

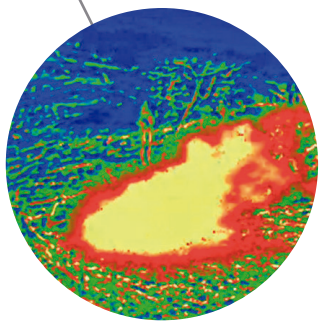
CIES is the perfect tool for photogrammetry jobs of large areas in record time. The combination between the 20 Mpx SONY RGB sensor and PPK positioning system, allows us to map with great precision more than 800 Ha / day.





Agriculture (Cíes Agro)

CIES AGRO version has been conceived as a tool for crops monitoring and productivity control. It incorporates a multispectral AGROWING sensor that provides 8 Mpx images per band, and gets a resolution up to 1.7 cm per pixel.



Forest fire monitoring (Cíes Fénix)

Its dual (thermal and RGB) camera system allows the implementation of artificial intelligence (AI) techniques and computer vision to detect, locate and track fires.