EXPLORE
HUGE
TERRITORIES

sunbirds

SUNBIRDS
SB4 PHOENIX

www.sunbirds-uas.com

SUNBIRDS : THE LEADING SOLAR UAV COMPANY

WHY SUNBIRDS?

«We believe that wide areas can be managed from the air in a cost-effective and sustainable way.»

Laurent Rivière, CEO, Sunbirds

3 REASONS TO CHOOSE SUNBIRDS:

ENDURING

The SB4 is the **professional UAV designed for large areas**. Thanks to its unrivalled **endurance** the SB4 performs **ultra long range** missions. The SB4 is perfect for **large scale mapping** where its **autonomy** provides outstanding **coverage** capabilities.

COST-EFFECTIVE

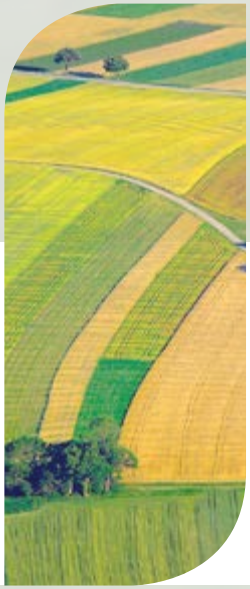
The SB4 is the **affordable**, **time-saving** solution to collect **accurate actionable data**. Its unique **productivity** provides a **fast return on investment**. The SB4 performs the most challenging missions in one single, simple flight.

SOLAR

Sunbirds is the **leader** in solar-powered **UAVs**. Pioneer in this **cutting edge technology**, Sunbirds has set **new endurance standards** with the SB4. This unique **CleanTech** UAV will help you **make the difference**.

THE PROFESSIONAL **UAV** FOR **LARGE-SCALE MISSIONS**

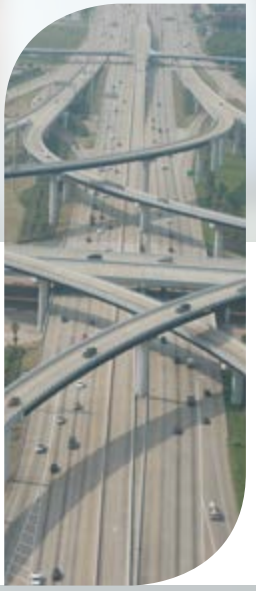
The SB4 provides **actionable geospatial data** collected over **extensive areas**. It is designed to cover a **wide range** of **large scale missions** : precision mapping, photogrammetry, surveying, surveillance, inspection and remote sensing. In just a few clicks, the aerial images are transformed in valuable insights such as georeferenced orthomosaics and 3D models. This **insightful knowledge** enables managers to make quick and precise **data-driven** decisions.



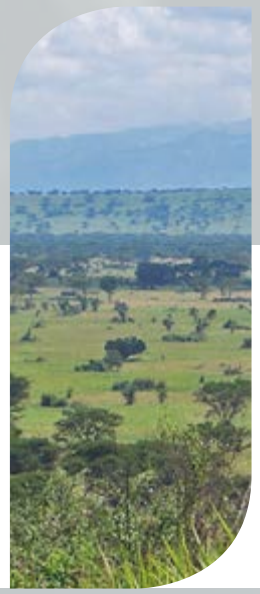
PRECISION AGRICULTURE

FORESTRY

MINING



INFRASTRUCTURE INSPECTION

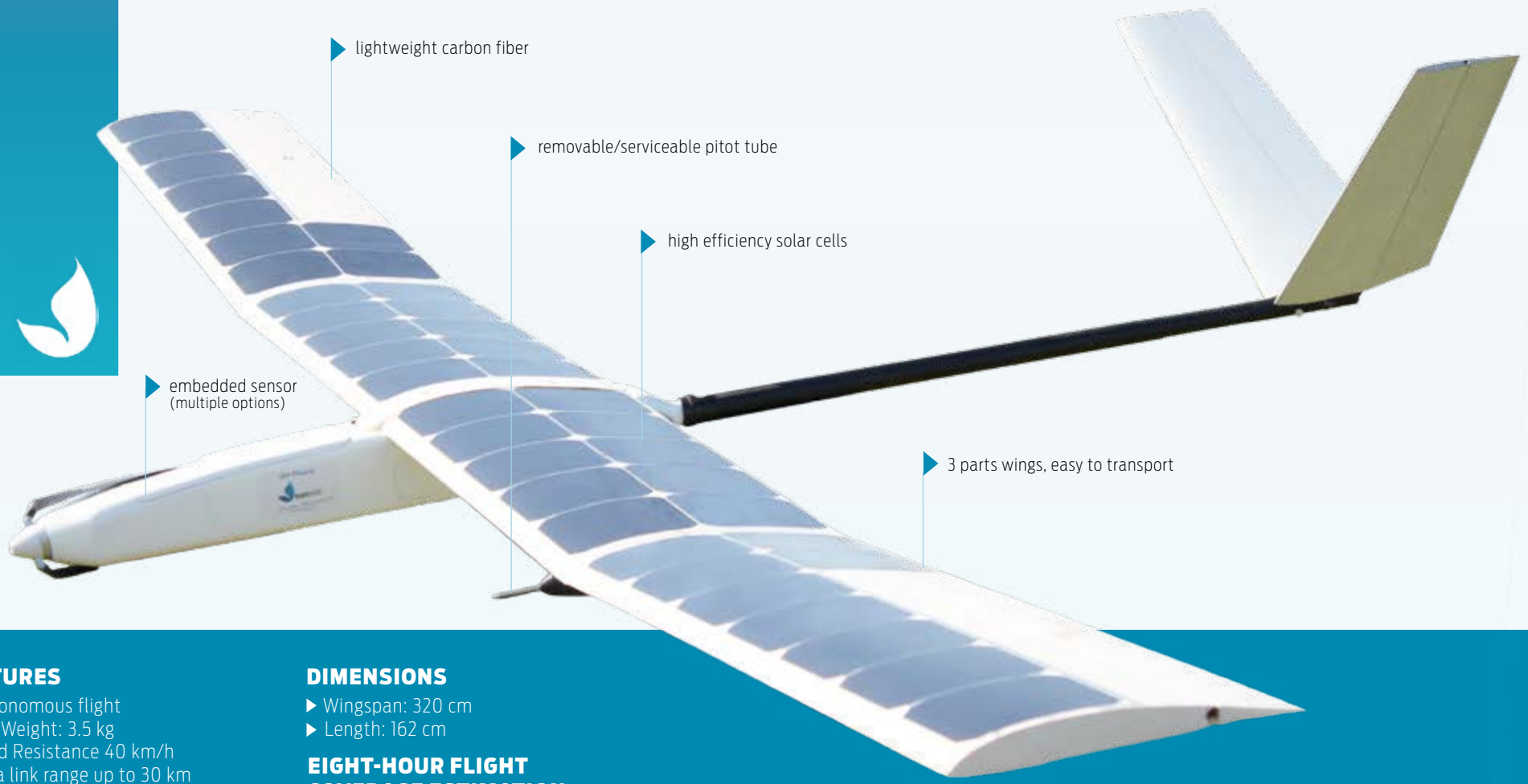


CONSERVATION

HUMANITARIAN AID

LAND USE

THE SB4 PHOENIX:
DESIGNED FOR ENDURANCE



FEATURES

- Autonomous flight
- T/O Weight: 3.5 kg
- Wind Resistance 40 km/h
- Data link range up to 30 km
- Flying range up to 290km
- Nominal flight speed 40 km/h
- Hand launch

DIMENSIONS

- Wingspan: 320 cm
- Length: 162 cm

EIGHT-HOUR FLIGHT COVERAGE ESTIMATION:

- 2000ha, 150m AGL, GSD 3.8cm, 60% overlap
- 1100ha, 80m AGL, GSD 2cm, 60% overlap

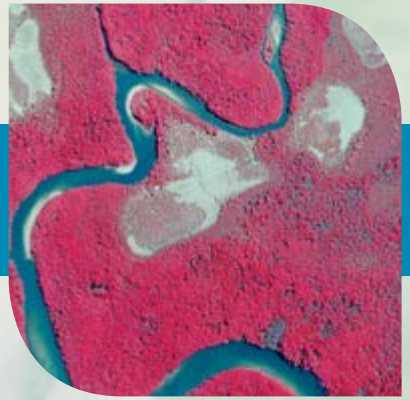
OUR RANGE OF **SENSORS**

EMBEDDED SENSOR

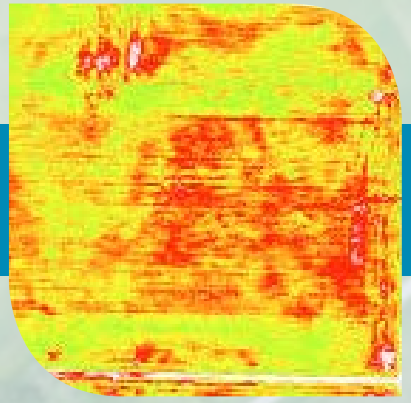
Canon S110 controlled by the autopilot12.1 Megapixel, 1/1.7-inch CMOS

OPTIONAL SENSORS

(upon request)



RedEdge by Micasense

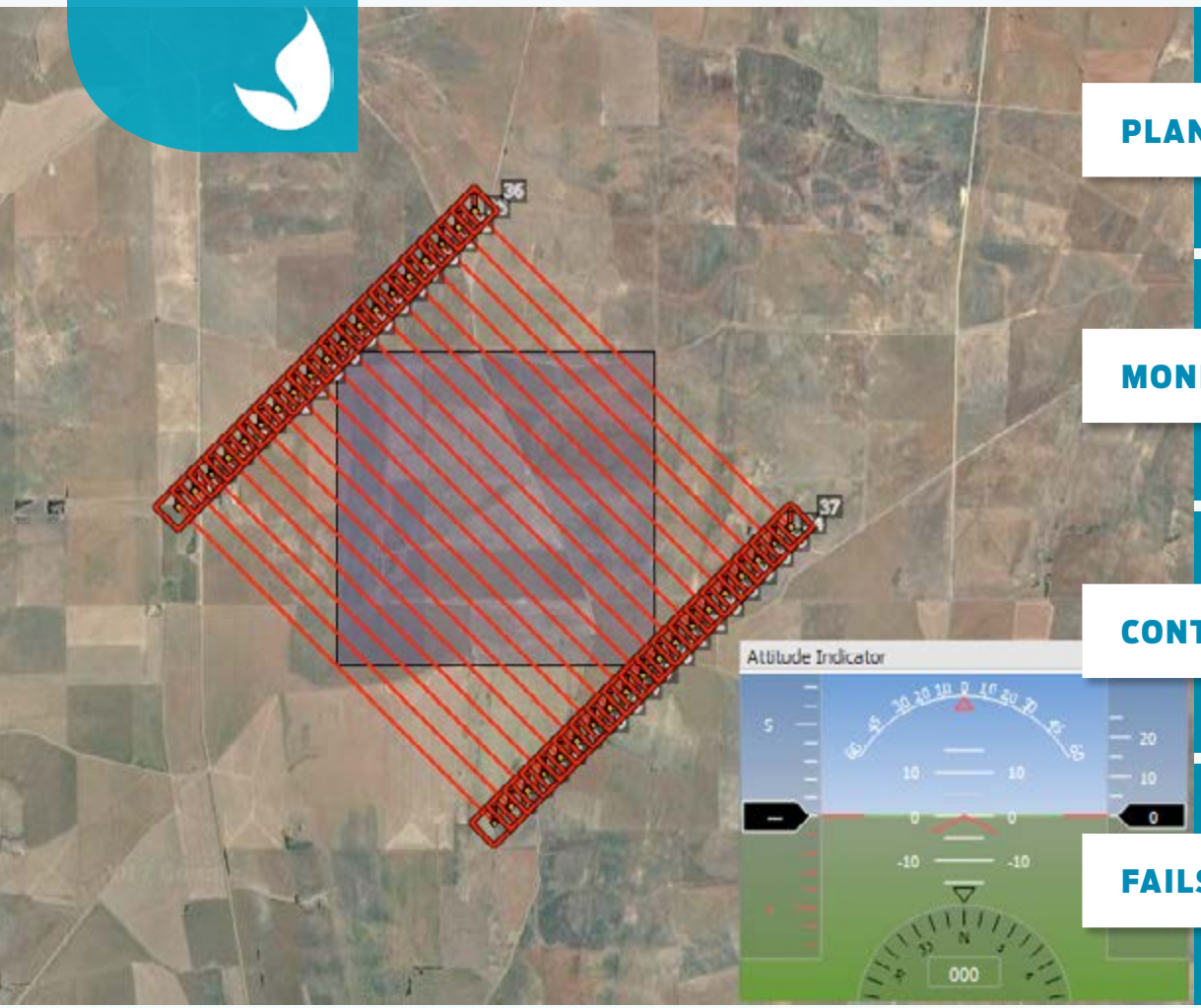


Sequoia by Parrot

IR Thermal camera
(FLIR TAU 2)

FPV sensor
with 5.8Ghz live video link

BELVEDERE GROUND CONTROL **SOFTWARE**



PLAN

Set the wind direction, GSD and overlap parameters and Belvedere will plan the optimal flight to meet perfectly the mission's requirements in the blink of an eye.

MONITOR

Critical flight data are displayed on the screen, enabling the operator to easily monitor the mission and the health of the SB4.

CONTROL

The SB4 is fully autonomous. While the UAV is airborne, you can change its speed and flight plan in real time and control the camera. You can also change the flight mode to manual or assisted (attitude control).

FAILSAFES

The SB4 is designed for safety, with customizable geofencing and return to launch features.

PRODUCT AND SERVICES

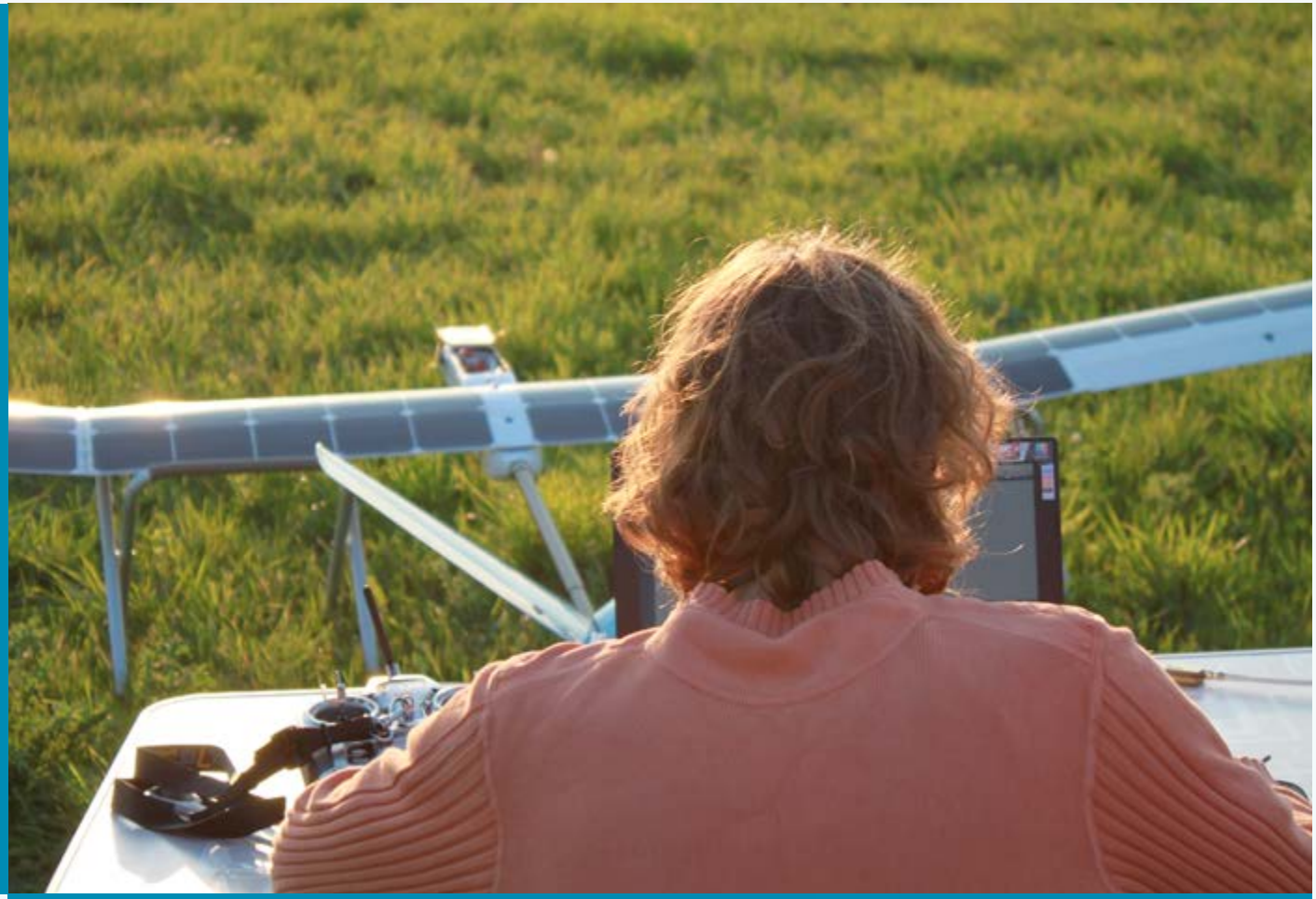
THE PACKAGE

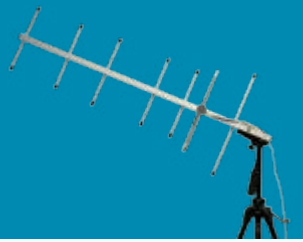
SB4 PHOENIX
READY TO FLY

- **CANON S110 SENSOR**
  (by default)
- **GROUND STATION**
  High gain antenna
  Remote control
- **BELVEDERE SOFTWARE**
  For easy flight planning and control

SERVICES

- Training: on-site or at Sunbirds
- Spare parts
- Customer support
- One-year warranty





TECHNICAL SPECIFICATIONS

WEIGHT	3.5 KG - 7.7 LBS
WINGSPAN	320 CM - 126 IN
LENGTH	162 CM - 63.8 IN
FLIGHT MODE	MANUAL / ATTITUDE CONTROL / AUTONOMOUS
PROPULSION	BRUSHLESS DC MOTOR & FOLDING PROPELLER
BATTERY PACK	LIPO 2250MAH 6S 22.2V
LAUNCH	BY HAND
CONNECTIVITY	433MHZ DIRECT LINK

FLIGHT TIME	ALL DAY LONG*
FLYING RANGE	UP TO 290 KM
RADIO LINK RANGE	UP TO 30 KM - 18.6 MI
NOMINAL CRUISE SPEED	40 KM/H - 11.1 M/S
WIND RESISTANCE	40 KM/H - 11.1 M/S
DEFAULT PAYLOAD	CANON S110 RGB CAMERA
GROUND SAMPLING DISTANCE (GSD)	DOWN TO 1 CM - 0.4 IN PER PIXEL
FLIGHT COVERAGE (8H)	2000HA - 150M AGL - 3.8 CM GSD - 60% OVERLAP

*depending on sunshine conditions

CONTACT US

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