eBee
senseFly

Aerial
efficiency,
photogrammetric
accuracy

senseFly
a Parrot company

3 reasons
to choose the eBee Plus

Large coverage for optimal efficiency
The eBee Plus can map more square kilometres per flight, than any drone in its weight class, allowing you to maximise your efficiency and plan projects with confidence.

High Precision on Demand (HPoD)
The eBee Plus includes built-in RTK/PPK functionality that can be activated either out of the box or later when required. It's survey-grade accuracy *you* control, without the need for ground control points—for less time in the field and more time putting your data to work.

Project-perfect payloads
The eBee Plus offers a camera to suit every application, including the senseFly S.O.D.A. (supplied), the first camera designed for photogrammetric drone mapping.

Why **senseFly**

Intelligent integration
senseFly drones are ready to fly out of the box. Lightweight, safe & durable, these fully-integrated systems are powered by a single battery and managed by our aviation-quality autopilot.

Education included
senseFly's sales staff are experts in their fields, plus senseFly customers gain free access to a wealth of educational materials, including a full online Knowledge Base, tutorials, webinars & more.

Quality global support
senseFly drones include free software updates & efficient online support linked to local expert repair centres. Further maintenance packages & extended warranty options are also available.

eMotion excellence
senseFly's eMotion is the most advanced flight planning & control software around. Built with safety in mind, it makes planning, simulation & monitoring automatic drone flights simple.

+310,000	FLIGHTS TO DATE
+90,000	FLIGHT HOURS
+12,400,000	HA COVERAGE

Large coverage for **optimal efficiency**

The lightweight, hand-launched eBee Plus is a seriously efficient data collection tool.

Its flight time of 59 minutes is a figure you can rely on: whichever camera you fly, at virtually any altitude, and in varying wind conditions. The result is less time spent flight planning and swapping batteries, and more time collecting exactly the geospatial data you need.

- Confirmed real-world flight time: 59 minutes
- Capable of mapping more, per flight, than any drone in its weight class:
  - Up to 2.2 km² (0.8 mi²) in a single 122 m (400 ft) flight
  - Up to 40 km² (15.4 mi²) maximum coverage

Includes eMotion 3!

eMotion 3 is senseFly's next-generation drone flight & data management software. It includes: mission block flight planning, efficient multi-flight missions, a full 3D control environment, multiple payload support, cloud connectivity & more…

Project-perfect **payloads**

The eBee Plus in a uniquely flexible tool. It is available with multiple camera payloads, so you need only invest in the configuration that suits your business' needs.

- A sensor for every application:
  - **Professional-grade RGB:** surveying/geospatial
  - **Thermal infrared:** photovoltaic/rescue/environmental
  - **Multispectral:** agriculture/forestry/conservation
- Supplied with senseFly S.O.D.A. (Sensor Optimised for Drone Applications)
- Backwards-compatible with existing eBee sensors* (upgrade to eBee Plus to extend ground coverage while minimising your sensor costs)

senseFly S.O.D.A.

Sensor Optimised for Drone Applications

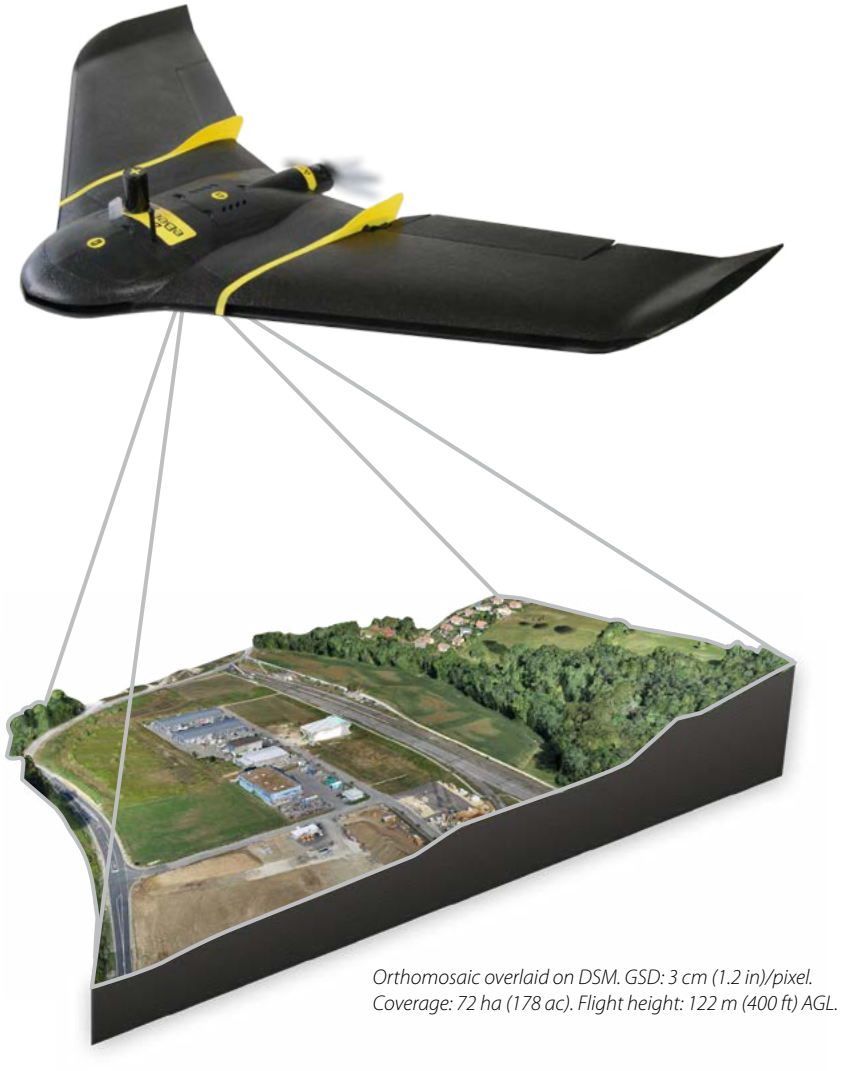
The senseFly S.O.D.A. is the first camera to be designed for professional drone photogrammetry. It captures amazingly sharp aerial RGB images, across a range of light conditions, allowing you to produce detailed, vivid orthomosaics and highly precise digital surface models.

** select cameras may only support RTK standalone mode*

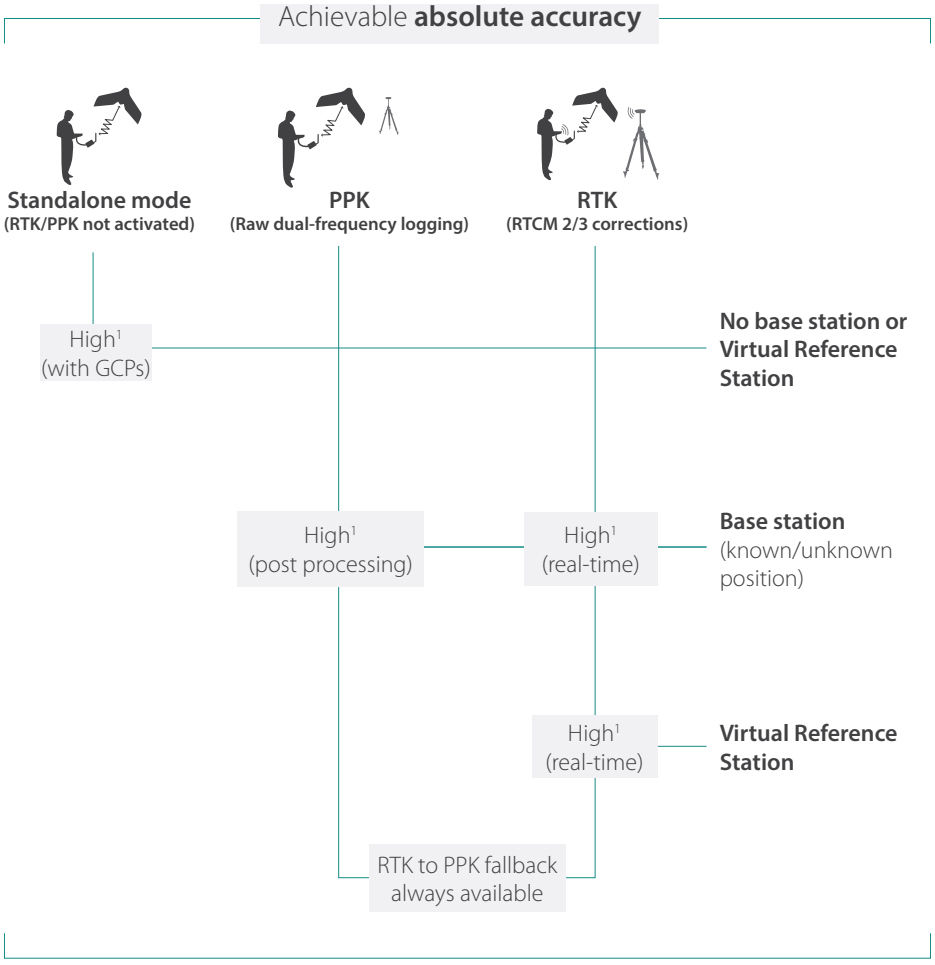
High Precision **on Demand** (HPoD)

The eBee Plus features High Precision on Demand (HPoD) thanks to its built-in RTK/PPK functionality. You can activate this whenever it suits your business—right out of the box, or later. It's survey-grade accuracy *you* control, without the need for ground control points—for less time in the field and more time putting your data to work.

- On-demand survey-grade outputs—without ground control points
- Absolute orthomosaic & digital surface model accuracy of down to 3 cm (1.2 in)
- Achievable across virtually every site
- Employ your existing reference station & GNSS knowledge



Orthomosaic overlaid on DSM. GSD: 3 cm (1.2 in)/pixel. Coverage: 72 ha (178 ac). Flight height: 122 m (400 ft) AGL.



[1] *down to 3 cm (1.2 in) horizontal / 5 cm (2 in) vertical*

Technical specifications

HARDWARE

Wingspan	110 cm (43.3 in)
Weight	1.1 kg (2.4 lb)
Motor	Low-noise, brushless, electric
Radio link range	3 km nominal (up to[1] 8 km) / 1.86 mi (up to[1] 4.97 mi)
Detachable wings	Yes
Sensor (supplied[2])	senseFly S.O.D.A.
Sensors (optional)	Parrot Sequoia, thermoMAP

SOFTWARE

Flight planning & control software (supplied)	eMotion 3
Image processing software (optional)	Pix4Dmapper

OPERATION

Automatic 3D flight planning	Yes
Cruise speed	40 -110 km/h (11-30 m/s or 25-68 mph)
Wind resistance	Up to 45 km/h (12 m/s or 28 mph)
Maximum flight time	59 minutes
Automatic landing	Linear landing with ~ 5 m (16 ft) accuracy
Ground control points (GCPs) required	No (RTK/PPK activated), optional (RTK/PPK unactivated)
Hand launch (no catapult required)	Yes

RESULTS

Nominal coverage[3] at 120 m (400 ft)	2.2 km^2 (0.85 mi^2)
Maximum coverage[4]	40 km^2 (15.4 mi^2)
Ground Sampling Distance	Down to 1 cm (0.4 in) / pixel
Absolute X, Y, Z accuracy (RTK/PPK activated or w/GCPs)	Down to 3 cm (1.2 in) / 5 cm (2 in)
Absolute X, Y, Z accuracy (no RTK/PPK, no GCPs)	1-5 m (3-16 ft)

senseFly S.O.D.A.

Sensor type	RGB (20 megapixel)
Sensor size	1-inch (optical format)
Pixel pitch	2.33 µm
Shutter	Global
Ground resolution (at 122 m/400 ft AGL)	2.9 cm/px (1.1 in/px)
Dust & shock protection	Yes

[1] in ideal conditions
[2] optional in Turkey
[3] flight height above ground level; results excl. reconstructible zone around planned area
[4] based on 2,500 m (8,202 ft) flight altitude above ground level; results incl. reconstructible zone around planned area