



eBee
senseFly

The professional mapping tool



eBee

senseFly

The **eBee** is the **easiest-to-use, fully autonomous** mini-drone on the market.

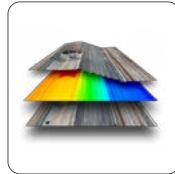
Our drone is a **turn-key solution** and includes **all the accessories required for operation**, as well as our control and monitoring software **eMotion 2** and our image processing software **Postflight Terra 3D**.



CARRY-ON
Sized Case



INTUITIVE
Planning & Control



PROFESSIONAL
Mapping Software

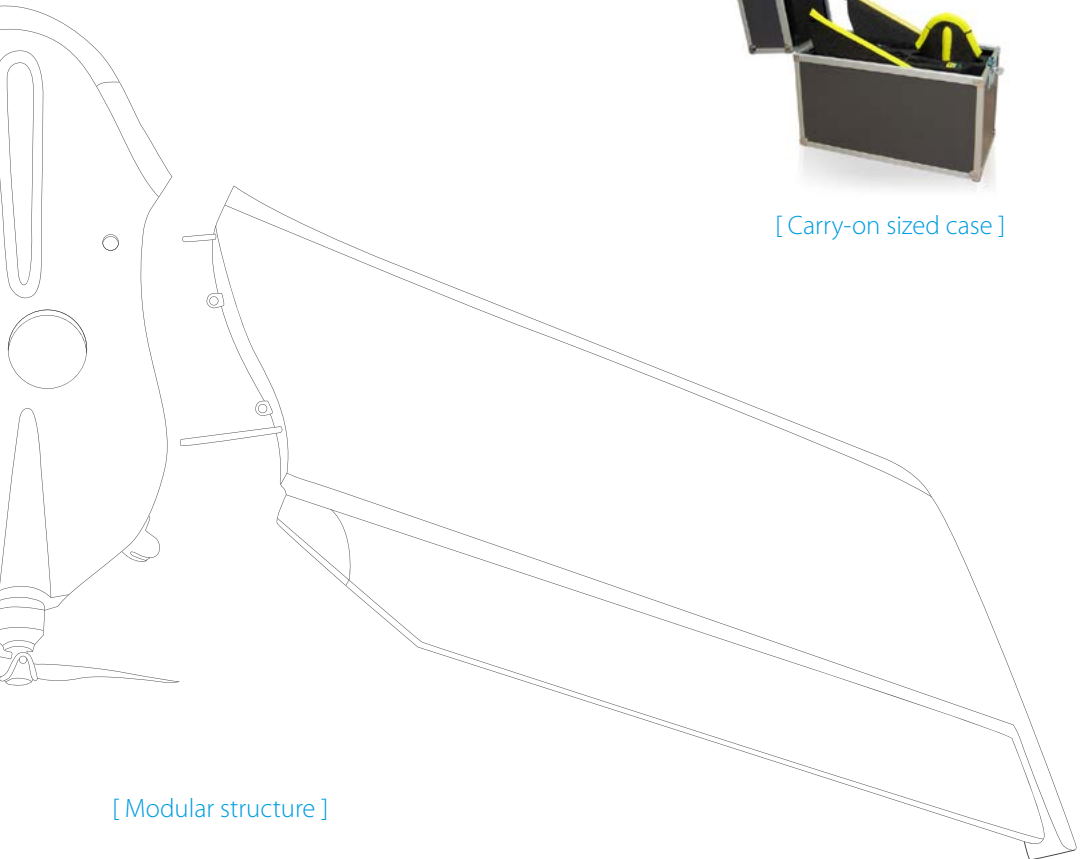
Modular design for easy transport

The eBee fits into a single box and is easy to transport, due to its detachable and replaceable wings.

The eBee has a modular design, allowing the wings to be disassembled and stored along with the central body and all its

accessories in a small case. The case is so small and lightweight that you can even take it as cabin baggage (IATA guidelines).

The eBee will accompany you on all your projects.



[Modular structure]



[Carry-on sized case]

Inherently safer design



At less than 700g (1.5lbs) the eBee is one of the lightest drones on the market.

With its flexible foam airframe and its rear-mounted propeller our drone is designed to enhance the safety of the operation.

Exceptionally lightweight, the eBee can be launched by hand.

Autopilot & artificial Intelligence

Our proprietary autopilot, at the core of all our products, is the result of years of research and development.

The eBee takes off, flies and lands autonomously. The artificial intelligence incorporated in the **senseFly** autopilot continuously analyzes data from the Inertial Measurement Unit and the onboard GPS and takes care of all aspects of the flight mission.



Ground sensing & linear landing



The eBee's ground sensor is composed of a high-speed optical sensor and lens that can estimate the distance to the ground with high accuracy.

This sensor helps the eBee land gently using an autonomous linear landing procedure in a variety of terrains and with more precision than is possible with GPS alone.

Technical specifications

- 96cm wingspan
- Less than 700g (1.5lbs) take-off weight
- Lithium polymer battery powered
- 45 minutes of flight
- 36-57km/h (10-16m/s) cruise speed
- Up to 45km/h (12m/s) wind resistance
- Ground sensor and reverse engine technology for linear landing
- Up to 3km radio link
- 16MP camera, electronically integrated and controlled
- On-board data logging
- Covers areas up to 10km²
- Down to 3cm Orthomosaic accuracy
- Down to 5cm Digital Elevation Model (DEM) accuracy
- 3D flight planning and visualization
- Flight simulator
- Real time mission update and control
- Multiple drones operation capable (with midair collision avoidance)
- Easy data management system (geotag images, create KML files and memorize flight history)

Package contents

- eBee central body complete system with senseFly's built-in autopilot & all electronics (ready to fly)
- Pair of detachable wings
- Still camera (includes memory card, battery, USB cable and charger)
- 2.4 GHz USB radio modem for data link (includes USB cable)
- Lithium-Polymer battery packs (includes charger)
- Spare propeller
- Carrying case with foam protection
- Remote control & its accessories for safety pilots (if legally required)
- User manual
- Software access codes & license keys (eMotion 2, Postflight Terra 3D)





Fully autonomous:
Our drone flies by itself, from take-off to landing



Automatic safety & emergency procedures: Includes wing detection, complete sensor health monitoring and intelligent failsafe behaviours such as ground avoidance and return to home



Very light & hand-launched:
Easy take-off and landing, no additional equipment required



Accurate & efficient:
eBee collects aerial photography of areas up to 10km² in a single flight



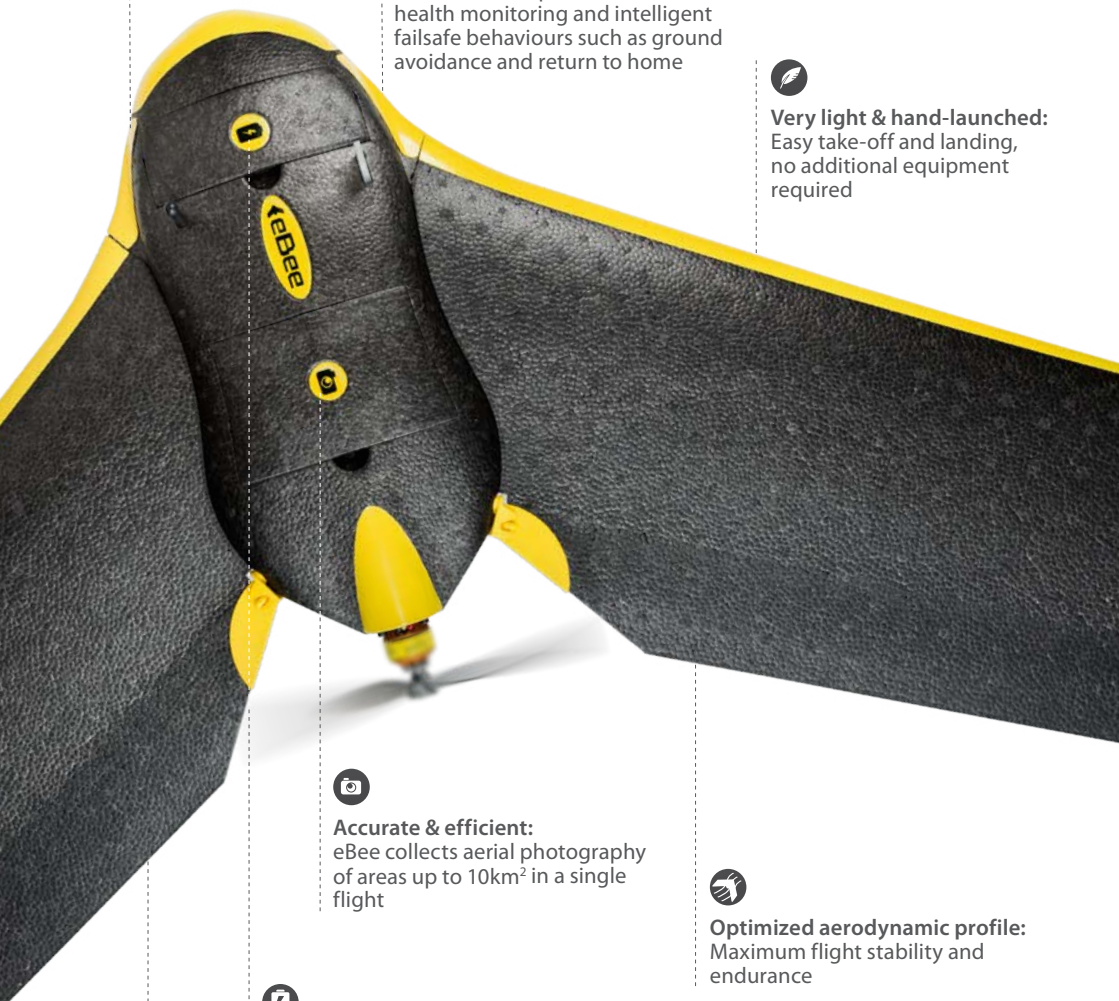
Electric powered:
Low noise level, no pollution



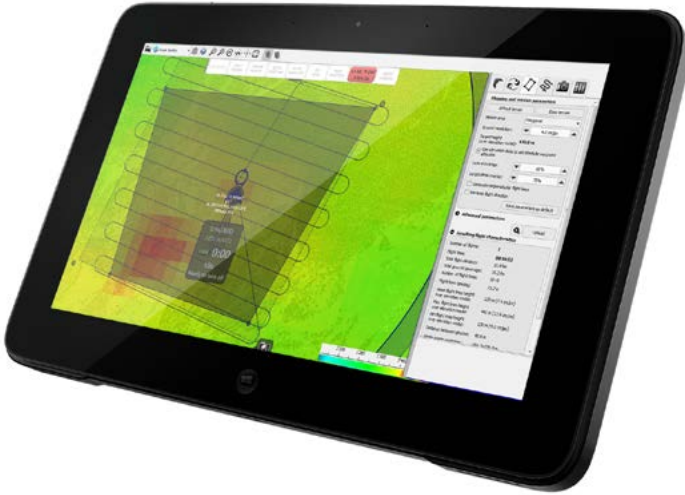
Optimized aerodynamic profile:
Maximum flight stability and endurance



Oblique imagery:
Up to 50° inclination



eMotion 2, intuitive planning & control



eMotion 2
senseFly



Quick to learn and easy to use, senseFly's intuitive ground station software eMotion 2 lets you plan, simulate, monitor and control the trajectory of the eBee both before and during flight.

eMotion 2 is capable of controlling and coordinating multiple drones simultaneously.

01 Plan: Draw a polygon over the area of interest, define ground resolution and image overlap. A **3D flight plan** is automatically calculated and displayed to preview the mission plan.

03 Monitor: Monitor the drone's flight parameters, battery level and image acquisition during a flight in real time and receive status messages and warning.

02 Simulate: Fly the mission virtually and simulate wind strength and direction. Check your flight plan and save it for future use.

04 Control: Update or reprogram the flight plan and landing location while it is in flight and send direct commands to the drone.

Once landed an automated data management allows **image geotagging and mission parameters recording.**

Professional mapping software



**Postflight
Terra** **3D**
Powered by Pix4D

Postflight Terra 3D is a professional photogrammetry software that runs on your desktop computer or laptop and processes aerial imagery into 2D maps and 3D models with centimetre accuracy with just a couple of clicks.

To enhance results, Postflight Terra 3D includes tools for seamline editing and brightness control.

Before launching full processing, Postflight Terra ED allows quick check of image overlap and calculate a rough orthomosaic at 25% of original image resolution while in the field. Such quick maps are perfect as background for precise flight planning in eMotion 2.

NOW INCLUDING: rayCloud

rayCloud is a brand new concept combining the 3D point cloud with the original input images to achieve the highest accuracy possible. Use the rayCloud to:

- Easily view, assess & interpret your data
- Full control over all tie points, calibration & results
- Annotate & measure objects (stockpiles, 3D Breaklines, etc.)
- Semantic CAD modeling using all image content
- Use your annotations to reprocess projects and improve accuracy



More info at: www.sensefly.com



Where can you buy your eBee: Find your nearest reseller on our website: www.sensefly.com/about/where-to-buy or follow the QR Code for direct link.

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Route de Genève 38
1033 Cheseaux-Lausanne
Switzerland

 Swiss made

About senseFly: senseFly designs, assembles and markets autonomous mini-drones and related software solutions for civil professional applications such as accurate mapping of mining sites, quarries, forests, construction sites, crops, etc.

Parrot

A Parrot company: In summer 2012 senseFly became a member of the Parrot group.

Experienced Worldwide



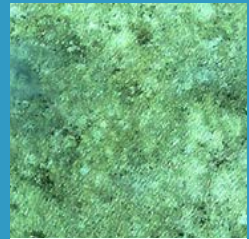
Agriculture
Canada



Disaster Management
Haiti



Surveying
Switzerland



Animal Observation
Indonesia



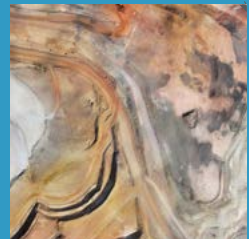
Land Fill Survey
Chile



Forestry Conservation
Côte d'Ivoire



Environmental
Management
Chad



Mining
Australia



senseFly

www.sensefly.com



Parrot

senseFly is a Parrot company