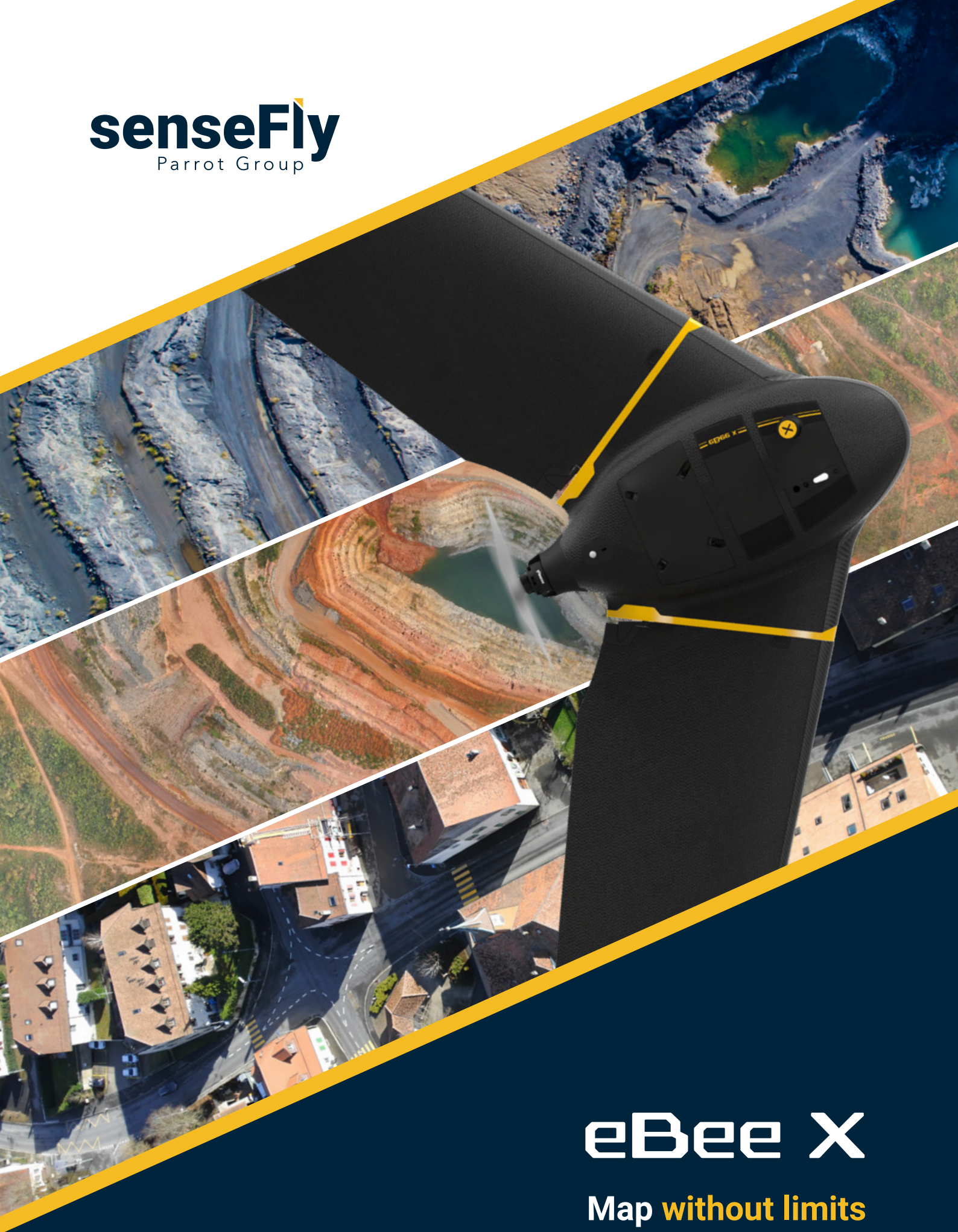
senseFly
Parrot Group



eBee X

Map without limits

Efficient & Precise

MEET EVERY PROJECT'S REQUIREMENTS

The eBee X can meet the exacting requirements of every project. Its unique Endurance Extension unlocks a maximum flight time of 90 min—for vast coverage of up to 500 ha (1,235 ac) at 400 ft*—while its High-Precision on Demand helps you achieve absolute accuracy of down to 3 cm (1.2 in), without GCPs.

Vast coverage

Enjoy single-flight coverage of up to 500 ha (1,235 acres) by activating eBee X's unique Endurance Extension.

High accuracy

Activate High Precision on Demand (HPoD) RTK/PPK for absolute accuracy of down to 3 cm (1.2 in).

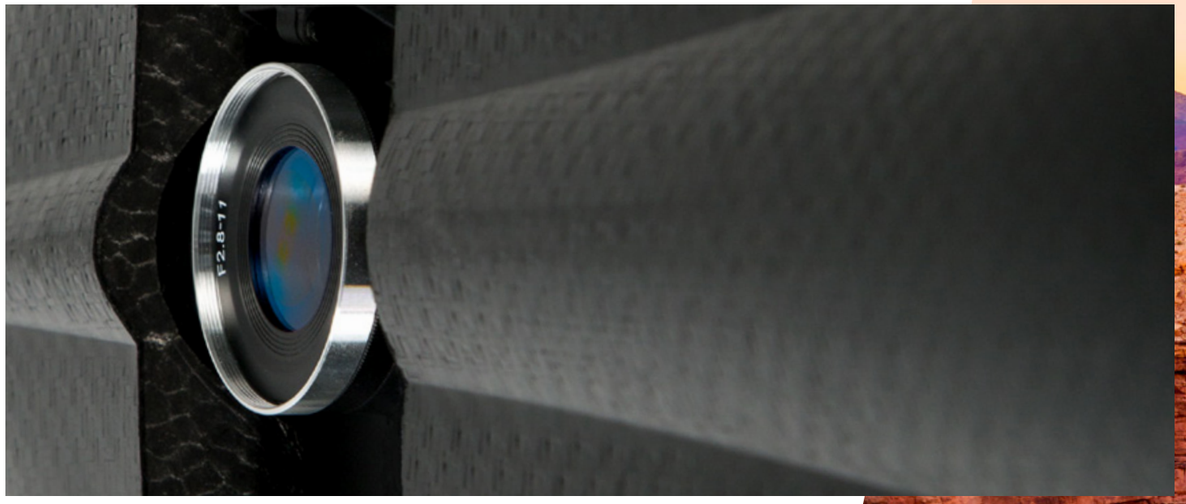
senseFly GeoBase

Enable simple RTK/PPK workflows with senseFly's optional GeoBase plug-and-play GNSS receiver.

"Operation is easy, the drone's Steep Landing technology is very useful, and the quality of the senseFly Aeria X means you can fly higher to achieve the same detail, or stay low and take even better pictures"

Armin Weber, Survey Engineer/Co-Owner, Lerch Weber AG

* Max. coverage figures based on eBee X flight over flat terrain, in optimal conditions, using a senseFly S.O.D.A. 3D camera.



Rugged & Reliable

WORK EVERY SITE, NO MATTER HOW CHALLENGING

The eBee X allows you to work virtually every site, no matter how demanding, thanks to its space-friendly Steep Landing technology, ultra-robust design, live air traffic data and more—all backed by senseFly's trusted professional, local support.

Space-friendly

Enjoy stress-free operations, even in restricted locations, thanks to eBee X's built-in Steep Landing technology.

Work tough

Keep on mapping, even after repeated landings in harsh environments, thanks to the eBee X's ultra-strong underbody.

Optimised for safety

eMotion flight planning software (supplied) features numerous aviation-inspired fail safes and a live air traffic data option for enhanced airspace awareness*.

* Optional ADS-B PingUSB required.

Professional support

Benefit from professional, localised support & senseFly's optional Always On service package* – because business never stops.

* Available in select countries only (ask your local senseFly representative).

"I immediately felt comfortable flying the eBee X and the senseFly Aeria X is a phenomenal mapping camera. As for that material on the body, I can't believe how strong that stuff is!"

Scott Hiebert, CEO, Green Aero Tech

Multi-purpose

ONE TOOL, MULTIPLE CAMERAS, FOR EVERY JOB

senseFly S.O.D.A. 3D

3D mapping, redefined

The senseFly S.O.D.A. 3D camera is a unique photogrammetry sensor that changes orientation during flight to capture three images—two oblique, one nadir—each time, for a much wider field of view.

- Stunning digital 3D reconstructions of vertical environments (urban areas, cliff faces etc.)
- Huge coverage over flat terrain—up to 500 ha (1,235 ac) per 122 m (400 ft) flight (with Endurance Extension)

Suits: urban mapping, mine & quarry surveying, coastline mapping, large-area mapping over flat terrain.

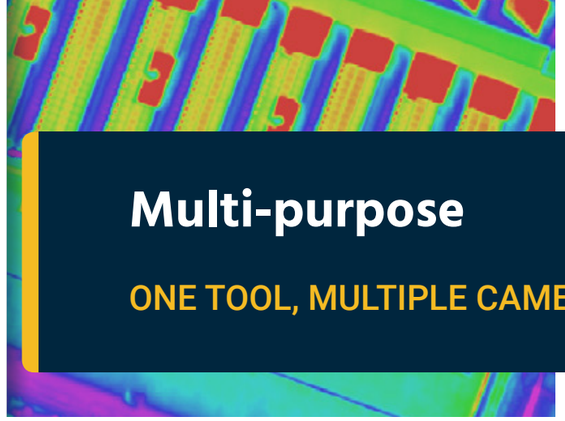
senseFly Aeria X

Your drone mapping powerhouse

The senseFly Aeria X is a compact photogrammetry powerhouse for those who demand the highest quality RGB outputs.

- APS-C sensor w/global shutter
- Stunning detail & clarity in virtually all light conditions (map for more hours per day)
- Includes Direct In-Flight Georeferencing (less image overlap required for greater flight coverage and quicker image processing)

Suits: surveying & cadastre, topographic mapping, site digitisation, volume measurement, site inspection.



senseFly Duet T

2 sensors, 1 heat map star

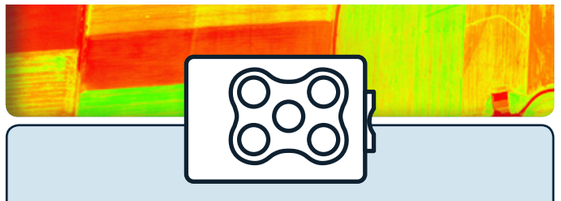
The senseFly Duet T is a professional dual-camera rig for thermal mapping applications. Use it to create high-resolution, geo-accurate thermal maps, reliably, on demand.

- One rugged, intelligent camera rig
- Two high-performance cameras: thermal infrared, senseFly S.O.D.A. RGB
- Imagery harmonised by unique Camera Position Synchronisation (CPS) technology

Suits: solar panel inspection, irrigation planning & analysis, animal management, heat tracking & leak detection, environmental monitoring.

MicaSense RedEdge-MX

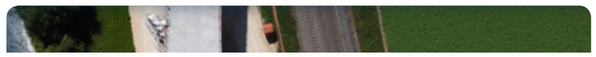
The sensor that doesn't compromise



The MicaSense RedEdge-Mx is a rugged and precise multispectral sensor for advanced agricultural analysis.

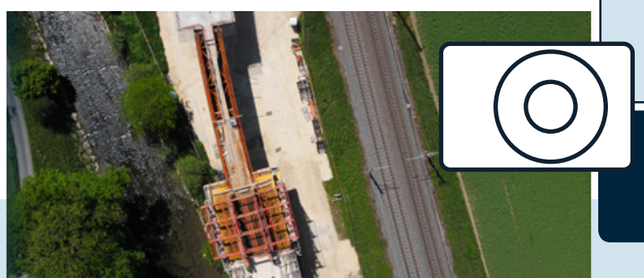
- Five spectral bands & composite RGB
- Optimised GSD of 8 cm (3.1 in) at 120 m (400 ft) AGL
- DLS 2 light sensor for accurate radiometric calibration
- Global shutter for distortion-free images

Suits: plant health analysis, research/field trials, emergence tracking, disease monitoring, management zone definition, input planning/optimisation.



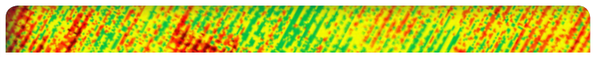
senseFly S.O.D.A.

The sensor optimised for drone applications



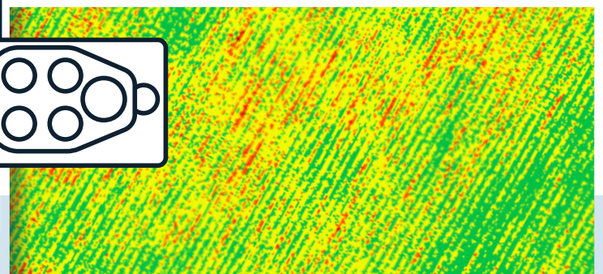
The first camera built specifically for professional drone photogrammetry. An additional senseFly Corridor option is available for linear mapping.

Suits: surveying & cadastre, topographic mapping, site digitisation, volume measurement, site inspection.



Parrot Sequoia+

Capture the invisible



This multispectral crop camera captures imagery across four spectral bands, plus RGB. It features automatic radiometric calibration for consistent measurements and is RTK/PPK compatible for precise georeferenced results.

Suits: plant health analysis, emergence tracking, disease monitoring, management zone definition, input planning/optimisation.

Hardware

Wingspan	116 cm (45.7 in)
Weight	1.4 kg (3.1 lb)
Motor	Low-noise, brushless, electric
Radio link range	3 km nominal (up to 8 km) / 1.9 mi (up to 5 mi)
Detachable wings	Yes
Camera options	senseFly S.O.D.A. 3D, senseFly Aeria X, senseFly Duet T, Parrot Sequoia+, senseFly S.O.D.A., senseFly Corridor, MicaSense RedEdge-MX
Accessory options	Radio tracker, PingUSB (air traffic data receiver)

Software

Flight & data management (included)	eMotion
Compatible image processing software	Pix4Dmapper/Pix4Dbim/Pix4Dfields (optional with eBee X), Agisoft PhotoScan, Esri Drone2Map, DroneDeploy, Trimble Business Center, Bentley ContextCapture
Image processing output compatibility	AutoCAD, ArcGIS, Trimble Business Center, Leica Geo Office, VAGNET Office Tools, ArcGIS, MicroStation & more

Flight performance

Automatic 3D flight planning	Yes
Cruise speed	40-110 km/h (11-30 m/s or 25-68 mph)
Wind resistance	Up to 46 km/h (12.8 m/s or 28.6 mph)
Max. flight time (w/o Endurance Extension)	59 minutes
Max. flight time with Endurance Extension	90 minutes
Automatic landing	Yes
Landing type	Linear landing with Steep Landing technology (5 m/16.4 ft accuracy in 35° angle cone)
Ground Control Points (GCPs) required?	No, with included High-Precision on Demand (RTK/PPK)
Hand launched	Yes

Coverage & accuracy

Nominal coverage at 122 m (400 ft)	220 ha (550 ac), with senseFly S.O.D.A. / no Endurance Extension
Max. nominal coverage at 122 m (400 ft)	500 ha (1,235 ac), with senseFly S.O.D.A. 3D / Endurance Extension
Ground sampling distance at 122 m (400 ft)	2.5 cm/px (1.0 in/px), with senseFly Aeria X
Absolute accuracy (RTK/PPK activated or w/GCPs)	Down to 3 cm (1.2 in)

For more information: **www.senseFly.com/eBee-X**

At **senseFly**, we believe in using technology to make work safer and more efficient. Our proven drone solutions simplify the collection and analysis of geospatial data, allowing professionals in surveying, agriculture, engineering and humanitarian aid to make better decisions, faster. **senseFly** was founded in 2009 and quickly became the leader in mapping drones. The company is a commercial drone subsidiary of **Parrot Group**.