Sequoia sensor

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.

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

Education included
Our staff are experts in their fields, plus senseFly customers gain access to a wealth of educational materials, including bi-monthly senseFly Academy webinars and a full online Knowledge Base.

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.

+530,000	FLIGHTS TO DATE
+150,000	FLIGHT HOURS
+26,700,000	HA COVERAGE

Technical specifications

HARDWARE

Wingspan	110 cm (43.3 in)
Weight	1.1 kg (2.42 lb)
Motor	Low-noise, brushless, electric
Ground modem	2.4 GHz USB
Radio link range	3 km nominal (up to 8 km[1]) / 1.86 mi (up to 4.97 mi[1])
Detachable wings	Yes
Sensor (supplied)[2]	Parrot Sequoia
Accessories (optional)	Radio tracker, backpack, camera protection kit

SOFTWARE

|	
Flight planning & control software (supplied)	eMotion Ag
Image processing software (optional)	Pix4Dmapper Pro/Ag, MicaSense Atlas

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 (12m/s or 28 mph)
Maximum flight time	55 minutes
Automatic landing	Linear landing with ~ 5 m (16.4 ft) accuracy
Ground control points (GCPs)	Optional
Hand launch (no catapult required)	Yes

RESULTS

Nominal coverage at 120 m (400 ft)[3]	200 ha (~500 ac)
GSD multispectral	12 cm/px (4.72 in/px)
GSD RGB	3.1 cm/px (1.22 in/px)
Maximum coverage at 2,000 m (6,500 ft)[4]	3,000 ha (~7,400 ac)
GSD multispectral	2 m/px (6.56 ft/px)
GSD RGB	55 cm/px (21.65 in/px)

SEQUOIA

Main body

Sunshine sensor
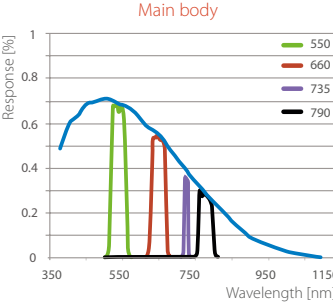
- Four 1.2 MP spectral cameras
- Up to 1 fps
- One 16 MP RGB camera w/rolling shutter
- 64 GB built-in storage
- IMU & magnetometer
- 5 W (~12 W peak)
- 72 g (2.5 oz)
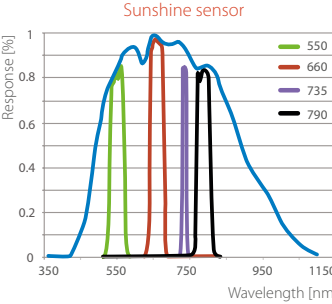
- 4 spectral sensors (same filters as body)
- GPS
- IMU & magnetometer
- SD card
- 1 W
- 35 g (1.2 oz)

[1] in ideal conditions
[2] optional in Turkey
[3] flight height above ground level; results excl. reconstructible zone around planned area
[4] flight altitude above ground level; results incl. reconstructible zone around planned area

Sunshine sensor

eBee SQ

The
advanced
**agricultural
drone**

4 reasons
to choose the eBee SQ

More precise
The eBee SQ's precise, calibrated multispectral imagery provides reliable insights into the real health of your crops.

Larger coverage
The eBee SQ can cover hundreds of acres in a single flight for extremely efficient crop monitoring and analysis.

Workflow compatible
The eBee SQ is compatible with your existing FMIS, ag machinery and workflow. There is no need to reinvent how you work.

Affordable
The eBee SQ is available at a low, value-packed price that fits your farm or agronomy business' budget.

Getting you **from drone to action**

senseFly
Parrot Group

////////More precise **crop data**

The eBee SQ is built around Parrot's ground-breaking Sequoia camera.

This fully-integrated and highly precise multispectral sensor captures data across four spectral bands, plus visible RGB imagery*—in just one flight.

> > Highly precise
> > 4 multispectral bands
> > + RGB data
> > In 1 flight

With this precise data you can generate accurate index maps and use these to create high quality prescriptions—carefully optimising crop treatments to improve production quality, boost yields & reduce costs.

- **Green**
- **Red**
- **Near-infrared**
- **Red-edge**
- **RGB**

" I have been co-operating with senseFly for more than five years now. senseFly is a very innovative company, especially in remote sensing for precision agriculture, where they have advanced their contribution tremendously. "

Ewald Kappes Ph.D., Trialing Expert Indications, Biological Assessment EAME, Syngenta

* useful for gaining a quick visual overview of a field & basic measurements. Not suitable for creating survey-quality orthomosaics & point clouds/DSMs for 3D data analysis.

Up to 10x greater coverage than quadcopter drones

///////Larger coverage for **greater efficiency**

The eBee SQ can cover hundreds of acres in a single flight—up to 10 times more ground than quadcopter drones—for extremely efficient crop monitoring and analysis. This means fewer flights in total, for less time spent collecting data and more time acting on it.

> > Larger coverage
> > Fewer flights
> > Less time collecting data
> > More time acting on it

Farm Management Information System (FMIS)

Import application map **(shapefile)**

Import crop boundaries **(shapefile)**

Create index & application maps

Create vegetation index map <
Define application zones & treatment values <
Generate machine-readable application map <

Workflow **compatible**

Thanks to its farming-focused eMotion Ag software, the eBee SQ is compatible with your existing FMIS and ag machinery - there is no need to reinvent how you work. **Monitor crops and gather data all year long.**

eMotion Ag flight planning software

> > Plan flight
> > Define ground resolution & overlap
> > Define landing zone
> > Upload flight plan to drone

Process data (local/cloud)

Fly & capture images

Define field boundaries in FMIS

Import boundaries into eMotion Ag & set key mission parameters

Process drone's images & create machine-readable application map (Pix4Dmapper shown)

Import high-quality application map into tractor terminal & begin treatment