



Getting you  
**from drone**  
**to action**

SO  
**eBee**

The  
advanced  
**agricultural**  
**drone**

  
**senseFly**  
a Parrot company



Sunshine sensor



Sequoia sensor

## 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.

## 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 repair centres. Further maintenance packages & extended warranty options are also available.

### 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.

### 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.

## 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.



“ 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. ”

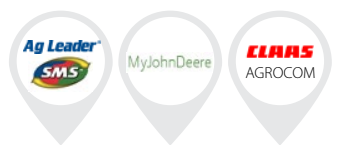
Ewald Kappes Ph.D., Trialing Expert Indications, Biological Assessment EAME, Syngenta

Up to 10x  
greater  
coverage than  
quadcopter  
drones

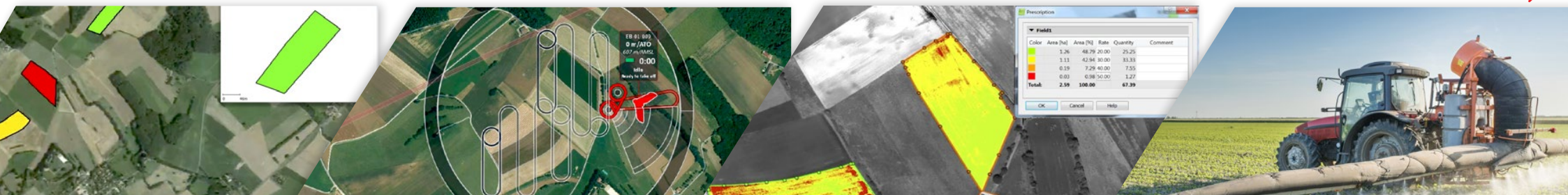
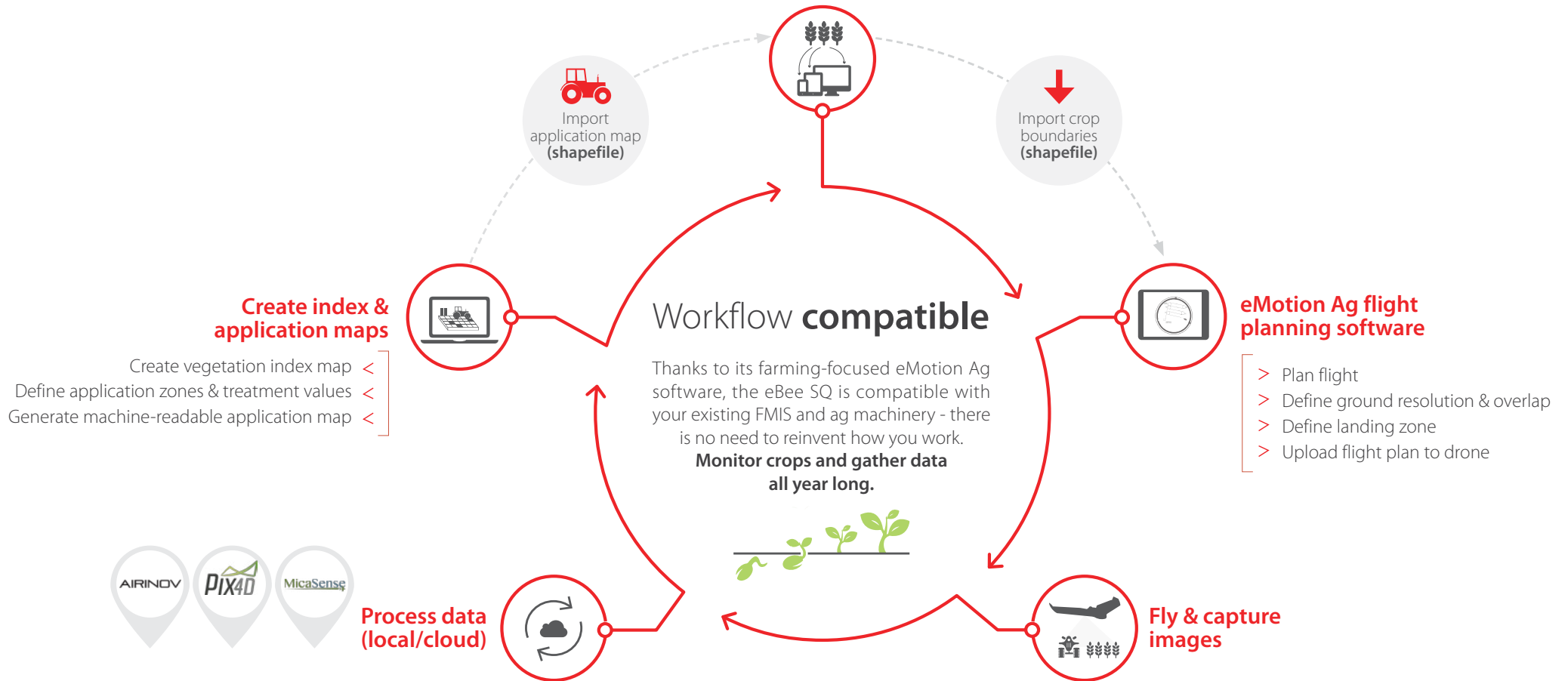
## Larger coverage for **greater efficiency**

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)**



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

Color	Area [ha]	Area [%]	Rate	Quantity	Comment
1.24	48.79	50.00	25.25		
1.11	42.94	50.00	33.33		
0.19	7.29	40.00	7.55		
0.03	0.98	50.00	1.27		
<b>Total</b>	<b>2.59</b>	<b>100.00</b>	<b>67.39</b>		

# 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 <sup>1</sup> ) / 1.86 mi (up to 4.97 mi <sup>1</sup> )
Detachable wings	Yes
Sensor (supplied) <sup>2</sup>	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

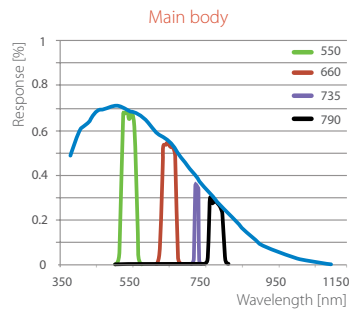
## OPERATION

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

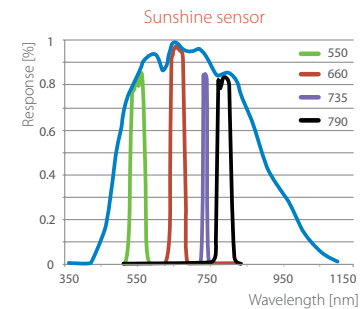
## RESULTS

<b>Nominal coverage at 120 m (400 ft)<sup>3</sup></b>	200 ha (~500 ac)
GSD multispectral	12 cm/px (4.72 in/px)
GSD RGB	3.1 cm/px (1.22 in/px)
<b>Maximum coverage at 2,000 m (6,500 ft)<sup>4</sup></b>	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



- 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)

<sup>1</sup> in ideal conditions

<sup>2</sup> optional in Turkey

<sup>3</sup> flight height above ground level; results excl. reconstructible zone around planned area

<sup>4</sup> flight altitude above ground level; results incl. reconstructible zone around planned area