senseFly
Camera Collection
A professional sensor for every application
The senseFly S.O.D.A. 3D is a unique innovation—a professional drone photogrammetry camera that changes orientation during flight to capture three images (2 oblique, 1 nadir) every time, instead of just one, for a much wider field of view. It is optimised for quick, robust image processing with Pix4Dmapper.

- Stunning digital 3D reconstructions in vertically-focused environments such as urban areas, open pit mines and coastlines—over larger areas than quadcopters can achieve
- Vast coverage over flat, homogenous terrain (up to 500 ha / 1,235 ac per 122 m / 400 ft flight*)

Suits:
- Urban mapping
- Mine & quarry mapping
- Coastline mapping
- Large area mapping over flat terrain

Compatible with:
- eBee X

senseFly S.O.D.A. 3D’s wide field of view ensures excellent 3D results in vertically-focused environments or vast mapping coverage over flat terrain.

* eBee X flight with Endurance Extension.
The senseFly Aeria X is a compact drone photogrammetry powerhouse. This rugged innovation offers the perfect blend of size, weight and DSLR-like image quality. It offers stunning image detail and clarity, in virtually all light conditions, allowing you to map for more hours per day than ever before.

Its built-in Direct In-Flight Georeferencing meanwhile boosts your efficiency even further by lowering the amount of image overlap required—for greater coverage and quicker post-flight image processing.

Meet the senseFly Aeria X
The compact marvel of drone photogrammetry

Suits:
- Surveying & cadastre
- Topographic mapping
- Site digitisation
- Volume measurement
- Inspection

Compatible with:
- eBee X

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Smart Exposure technology
- Optimised exposure time suits numerous light conditions, including low-light
- Super sharp, rarely over-exposed images
- Minimal risk of noise & motion blur

Direct In-Flight Georeferencing (DIFG)
- Records the GPS position and exact orientation of senseFly Aeria X at each capture location
- Less image overlap is required, enabling greater flight coverage and quicker image processing
- Improved reconstructions over difficult environments (water, forests etc.)

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Sensor
- APS-C
- RGB

Lens
- F/2.8-16, 18.5mm (28mm equivalent: 35 mm)

Resolution
- 24 MP
- 6,000 x 4,000 px (3:2)

Formats
- RGB: JPEG, DNG+JPEG

Exposure compensation
- ±2.0 (1/3 increments)

Shutter
- Global
- 1/500–1/2000s (user-configurable)

White balance
- Auto, sunny, cloudy, shady

ISO range
- 100-6400 (sensor)
- 100-2000 (user-configurable)

FOV
- 75° (diagonal)
- HFOV: 64°

Direct In-Flight Georeferencing (DIFG)
- Records the GPS position and exact orientation of senseFly Aeria X at each capture location.
- Less image overlap is required, enabling greater flight coverage and quicker image processing.
- Improved reconstructions over difficult environments (water, forests etc.).

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Image: senseFly Aeria X orthomosaic (1 cm/0.4 in GSD)
The senseFly Duet T is a rugged dual-camera thermal mapping rig. Use it to create geo-accurate thermal maps and digital surface models quickly and easily.

The Duet T includes a high-resolution thermal infrared (640 x 512 px) camera and a senseFly S.O.D.A. RGB camera. Both image sources can be accessed as and when required, while the rig’s built-in Camera Position Synchronisation feature works in sync with Pix4Dmapper photogrammetry software (optional) to simplify the map reconstruction process.

Presenting senseFly Duet T

2 sensors, 1 heat map star

Suits:
- Solar panel inspection
- Irrigation planning & analysis
- Animal management (e.g. counting & detection)
- Heat tracking & leak detection
- Environmental monitoring

Compatible with:
- eBee X
The RedEdge-MX is a rugged and precise multispectral sensor for advanced agricultural analysis. It captures both the spectral bands required for crop health indices and an additional blue band for deeper insights into specific issues.

The RedEdge-MX features an optimised GSD of 8 cm (3.1 in) per pixel at 120 m / 400 ft, composite RGB color images, a global shutter for distortion-free captures and an additional light sensor (DLS 2) for highly-accurate radiometric calibration, making the RedEdge-MX one of the most powerful crop sensors on the market.

Suits:
- Plant health analysis
- Agricultural research / field trials
- Emergence tracking
- Disease monitoring
- Definition of management zones
- Fertiliser/input planning & optimisation

Compatible with:
- eBee X
The Parrot Sequoia+ is the most popular multispectral sensor in agriculture. This lightweight, adaptable and value-packed solution features two types of sensor for the price of one: four multispectral 1.2 MP sensors, with global shutters, and RGB, plus a sunshine sensor.

When used with Pix4D software, the Sequoia+ is the first multispectral camera to provide absolute reflectance measurements without the need for a radiometric calibration target. The Sequoia+ is also the only crop sensor to support RTK/PPK workflows for precise georeferenced results. And it offers the largest single-flight coverage of any sensor in its class (nominal coverage of 200 ha / 494 ac with an eBee SQ flown at 120 m / 400 ft).

**Suits:**
- Plant health analysis
- Emergence tracking
- Disease monitoring
- Definition of management zones
- Fertiliser/input planning & optimisation

**Compatible with:**
- eBee X, eBee SQ, eBee Plus, eBee Classic
senseFly
S.O.D.A.

The sensor optimised for drone applications

The senseFly S.O.D.A. is the first camera to be built for professional drone photogrammetry and has quickly become the reference sensor in its field. It captures amazingly sharp aerial images, across light conditions, with which to produce detailed, vivid orthomosaics and ultra-accurate 3D digital surface models.

Suits:
- Surveying & cadastre
- Topographic mapping
- Site digitisation
- Volume measurement
- Inspection
- Plant counting
- Irrigation design

Compatible with:
- eBee X, eBee Plus, eBee Classic

sensor
1”
RGB

Lens
F/2.8-11, 10.6 mm (35 mm equivalent: 29 mm)

Shutter
Global
1/30-1/2000s (sensor)
1/500-1/2000s (User-configurable)

White balance
Auto, sunny, cloudy, shady

Exposure compensation
±2.0 (1/3 increments)

ISO range
125-6400 (sensor)
125-1600 (User-configurable)

Formats
RGB: JPEG, DNG+JPEG

Resolution
5,472 x 3,648 px (3:2)

senseFly Corridor
Linear mapping made easy

senseFly Corridor is a combined senseFly S.O.D.A./eMotion software solution that makes corridor mapping easy. With its portrait camera position, senseFly Corridor requires 30% fewer images to map the same linear route. This, in turn, means 30% shorter processing times.

Suits:
- Planning, design & analysis of linear infrastructure
- River & coastline mapping

Compatible with:
- eBee X, eBee Plus
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<tbody>
<tr>
<td>senseFly S.O.D.A. 3D</td>
<td>F/2.8-11, 10.6 mm (35 mm equivalent: 29 mm)</td>
<td>20 MP, 5,472 x 3,648 px (3.2)</td>
<td>±2.0 (1/3 increments)</td>
<td>Global</td>
<td>Auto, sunny, cloudy, shady</td>
<td>125-6400</td>
<td>Total FOV: 154°, 64° optical, 90° mechanical</td>
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<td>-10°C - 40°C</td>
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<td>JPEG, DNG+JPEG</td>
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<tr>
<td>senseFly Aeria X</td>
<td>F/2.8-16, 18.5 mm (28 mm equivalent: 18 mm)</td>
<td>24 MP, 6,000 x 4,000 px (3.2)</td>
<td>±2.0 (1/3 increments)</td>
<td>Global</td>
<td>Auto, sunny, cloudy, shady</td>
<td>125-6400</td>
<td>Total FOV: 64°, VFOV: 46°, DFOV: 75°</td>
<td>Yes</td>
<td>-10°C - 40°C</td>
<td>F/1.25, 13 mm (35 mm equivalent: 40 mm)</td>
<td>640 x 512 px (5:4)</td>
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<td>senseFly Duet T</td>
<td>F/2.8-11, 10.6 mm (35 mm equivalent: 29 mm)</td>
<td>20 MP, 5,472 x 3,648 px (3.2)</td>
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<td>Global</td>
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<td>MicaSense RedEdge-MX</td>
<td>F/2.8-11, 10.6 mm (35 mm equivalent: 29 mm)</td>
<td>16 MP, 4,608 x 3,456 px (4:3)</td>
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<td>Global</td>
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<td>125-6400</td>
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<td>Parrot Sequoia+</td>
<td>F/2.8-11, 10.6 mm (35 mm equivalent: 29 mm)</td>
<td>20 MP, 5,472 x 3,648 px (3.2)</td>
<td>±2.0 (1/3 increments)</td>
<td>Global</td>
<td>Auto, sunny, cloudy, shady</td>
<td>125-6400</td>
<td>HFOV: 64°, VFOV: 50°, DFOV: 74°</td>
<td>Yes</td>
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<td>F/1.25, 13 mm (35 mm equivalent: 40 mm)</td>
<td>Rolling, 30 Hz</td>
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<td>HFOV: 64°, VFOV: 50°, DFOV: 74°</td>
<td>Yes</td>
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<td>±2.0 (1/3 increments)</td>
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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.