The world’s leading provider of fixed wing mapping drones

Based near Lausanne, Switzerland & 4 regional offices

Founded in 2009, Spin-off of EPFL

Team CH

Team US
senseFly pioneered professional drones in 2009 and is world leader in fixed-wing drones.
The eBee evolution

- **2010**: swinglet CAM
  - Speed: 25km/h - 15m/h

- **2012**: eBee
  - Speed: 43km/h - 26m/h

- **2014**: eBee RTK
  - Speed: 43km/h - 26m/h

- **2016**: eBee SQ
  - Speed: 43km/h - 26m/h

- **2018**: eBee X
  - Speed: 43km/h - 26m/h
  - RTK / PPK

- **2018**: eBee Plus
  - Speed: 59m
  - RTK / PPK
eBee Ag

- Up to 55 minutes flight time*
- Down to 2.5 cm absolute accuracy with RGB
- Optimized multispectral outputs
- Lightweight and durable
- Safe and easy to use

*Results can vary depending on the flight conditions
The advanced dual-purpose agricultural camera

Use cases:

- Crop Planning
- Planting (stand & population counts)
- Plant health monitoring
- Crop scouting
- Water and soil management
- Pest, diseases and weed tracking
- Prescription maps
- Fertilizer and input efficacy
- Yield monitoring & forecasting
- Crop insurance assessments
Duet M multispectral camera: Parrot Sequoia+ bands

Visible light
- Soils
- Reflectance (%): 0.7, 0.6, 0.5, 0.4, 0.3, 0.2, 0.1, 0.0
- Wavelength (nm): 400, 500, 600, 700, 800, 900

Non-Visible light
- Green (560 nm center, 20 nm)
- Red (668 nm center, 10 nm)
- Red edge (717 nm center, 10 nm)
- Near-IR (840 nm center, 40 nm)
MicaSense RedEdge-MX
Multispectral Camera
Micasense RedEdge MX bands

Visible light

- Blue (475 nm center, 20 nm)
- Green (560 nm center, 20 nm)
- Red (668 nm center, 10 nm)
- Red edge (717 nm center, 10 nm)
- Near-IR (840 nm center, 40 nm)

Non-Visible light

- Soil
## The senseFly Duet T

<table>
<thead>
<tr>
<th>Type</th>
<th>Longwave Infrared Sensor</th>
<th>RGB Sensor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product</td>
<td>FLIR Tau 2</td>
<td>senseFly S.O.D.A.</td>
</tr>
<tr>
<td>Resolution</td>
<td>640 x 512 px</td>
<td>5’472 x 3’648 px</td>
</tr>
<tr>
<td>Lens</td>
<td>F/125, 13mm</td>
<td>F/2.8-11, 10.6mm</td>
</tr>
<tr>
<td>Spectral band</td>
<td>7.5 – 13.5 μm</td>
<td>Visible R, G, B</td>
</tr>
<tr>
<td>Scene range</td>
<td>-25°C – 135°C</td>
<td>-</td>
</tr>
<tr>
<td>Sensor size</td>
<td>10.9 x 8.7 mm</td>
<td>1 inch</td>
</tr>
<tr>
<td>Shutter</td>
<td>Rolling, 30Hz</td>
<td>Global 1/500 – 1/2000s</td>
</tr>
<tr>
<td>Measurement</td>
<td>Radiometric, &lt;0,05 K sensitivity</td>
<td>-</td>
</tr>
<tr>
<td>Accuracy</td>
<td>+/- 5°C (5% or readings)</td>
<td>-</td>
</tr>
</tbody>
</table>
senseFly Duet T’s thermal band

Infrared imaging technology detects infrared radiation = heat!

- **Visible**: 400 – 700 nm
- **Infrared**: 700 – 1’000’000 nm

- **Near IR**
- **Short Wave IR**
- **Mid Wave IR**
- **Long Wave IR**
- **Far Infrared**

**senseFly Duet T**
7.5 – 13.5 μm

⚠️ *Near Infrared ≠ Thermal Infrared*
Take-off
Easy to use Flight Planning Software: eMotion by senseFly

Plan
Simulate
Fly
Data import
CORN - NDVI
CORN - NDRE
SUGAR CANE
SUGAR CANE
NDVI X NDRE