

6X Sensor



Get Fast-Frame Rate Performance and High Radiometric Accuracy with Science-Grade Multispectral Imagery

Designed to meet the most demanding research and data sciences requirements, the 6X Sensor from Sentera captures eight channels of image data to provide more advanced imagery for the most precise and accurate analytics.

Accelerated post-processing operations give you insight to actionable data faster, meaning you can get the detailed imagery you need without sacrificing timeliness.



Compatible with Industry-Leading Ag Drones



Matrice (M200, M300, M600)
Inspire (1, 2)



Astro

Key Specifications of the 6X:

Size	3.13" x 2.60" x 2.66" (65mm x 65 mm x 22mm)
Weight	290 grams
Power	15W
Image Format	JPEG, TIFF, RAW 5 fps Sustained Capture Rate
Storage	512 GB Internal PCIe NVMe
Interfaces	USB-C Gigabit Ethernet Optional Expansion Port



6X Multispectral Sensor

Science-grade multispectral imagery with fast-frame rate performance combined with high radiometric accuracy for more advanced imagery.

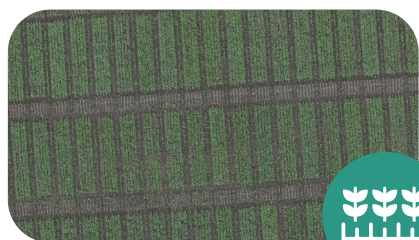


6X Thermal Sensor

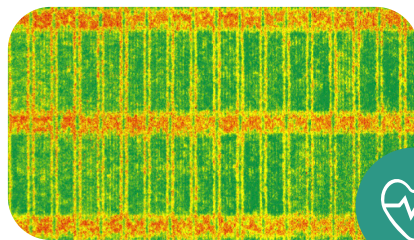
Extend optics with pixel-level temperature measurement across all imagery, delivering even more precise insights to power critical decisions.

Faster Data Collection, More Precise Analytics

Rely on Sentera's powerful machine learning platform to translate imagery into detailed analytics.



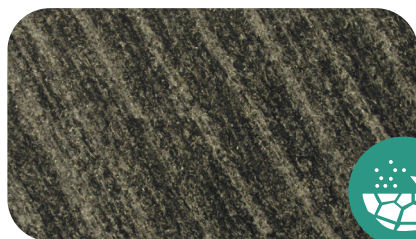
CANOPY COVER



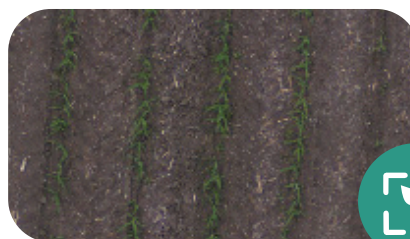
CROP HEALTH



FLOWER COVER



RESIDUE COVER



STAND COUNT

Sensor Resolution & Lens Overview

6X Multispectral Sensor

5X 3.2 MP Monochrome Global Shutter

- HFOV: 47°
- GSD @ 200 ft - 1.0" (2.6 cm)
- GSD @ 400 ft - 2.0" (5.2 cm)

Spectral Bands

- Blue: 475 nm x 30 nm
- Green: 550 nm x 20 nm
- Red: 670 nm x 30 nm
- Red Edge: 715 nm x 10 nm
- NIR: 840 nm x 20 nm

1X 20MP RGB Electronic Rolling Shutter

- HFOV: 47°
- GSD @ 200 ft - 0.4" (1.0 cm)
- GSD @ 400 ft - 0.8" (2.0 cm)

6X Thermal Sensor

4X 3.2 MP Monochrome Global Shutter

- HFOV: 47°
- GSD @ 200 ft - 1.0" (2.6 cm)
- GSD @ 400 ft - 2.0" (5.2 cm)

Spectral Bands

- Green: 550 nm x 20 nm
- Red: 670 nm x 30 nm
- Red Edge: 715 nm x 10 nm
- NIR: 840 nm x 20 nm

1X 20 MP RGB Electronic Rolling Shutter- Sony IMX147

- HFOV: 47°
- GSD @ 200 ft - 0.4" (1.0 cm)
- GSD @ 400 ft - 0.8" (2.0 cm)

1X FLIR Boson 320 x 256 LWIR, Radiometric

- HFOV: 50°
- Thermal Accuracy: +/- 5 C
- Thermal Sensitivity: <50mK
- GSD @ 200 ft - 7.0" (17.7 cm)
- GSD @ 400 ft - 13.9" (35.5 cm)