

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.

Faster Data Collection, More Precise Analytics

With the 6X, capture high-resolution aerial imagery. The result? Access to our analytics, helping you make critical in-season decisions about key inputs based on identified outcomes.

- Canopy Cover
- Flowering
- Crop Health
- Residue Cover
- Stand Count



Compatible Drones

Connect our 6X Sensor to a drone you already own.

No drone? No problem – we can help build the right ag drone system for your needs.

**DJI Matrice
M200 or M300**



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.

Sensor Resolution & Lens Overview

5X 3.2 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)

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: 47
- Thermal Accuracy: +/- 5 C
- Thermal Sensitivity: <50mK
- GSD @ 200 ft - 7.0" (17.7 cm)
- GSD @ 400 ft - 13.9" (35.5 cm)

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