

High-Precision Single Sensor



Generate More Accurate Vegetation Index Measurements

Clearly understand how your crops are performing with the ability to capture data related to crop health, maturity, and vigor. With the High-Precision Single Sensor from Sentera, go beyond NDVI and NDRE satellite imagery to get more precise multispectral images for detailed Crop Health Analytics.



Compatible with Industry-Leading Ag Drones



Phantom 4 Pro
Mavic 2 Pro

Key Specifications for the High-Precision Single Sensor

Resolution & Lens

1.2MP CMOS

- HFOV: 60° Horizontal / 47° Vertical
- GSD @ 200ft - 2.2" (5.5 cm)
- GSD @ 400ft - 4.3" (11.0 cm)
- Focal Length: 4.14 mm

NDVI

- Red Band: 625nm CWL x 100 nm width
- NIR Band: 850nm CWL x 40 nm width

NDRE (Red Edge)

- Red Edge Band: 720 nm x 40 nm width
- NIR Band: 840 nm x 20 nm width

Shutter: Global

Pixel Size: 3.75 um

Pixel Count: 12.48 horizontal / 950 vertical

Size: 1" x 1.33" x 1.47" (25.4mm x 33.8mm x 37.3mm)

Weight: 30 grams

Power: 2.5W

Voltage Input Range: 5V to 40V

Frame Rate

1.2MP; Stills: 7fps

Image Format: JPEG, TIFF

Storage

- 32GB SD card per sensor
- JPEG: 200,000 images; TIFF: 8,000 images

Interfaces

Ethernet, Serial/UART, Bluetooth

Control

Open ICD for triggering and metadata logging over serial or IP, compatible with:

- PIXHAWK™ autopilot
- MAVLink™- based systems
- Customized ICD options available