



# 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 Drones

Connect our Double 4K Sensor to a drone you already own.

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

- DJI PHantom 4 Pro
- DJI 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