sentera

FIELDAGENT™

DOUBLE 4K SENSOR | NDVI + NDRE

Sentera's Double 4K Sensor with NDVI and NDRE data capture helps agronomists, crop consultants and growers easily gain plant health insights so they can take action on or off the field.

Featuring innovative filtering, you can simultaneously collect normalized difference vegetation index (NDVI) and normalized difference red edge (NDRE) data - critical plant health indices that offer a vegetative health report card, more complete than ever before.

Sentera's Double 4K sensor delivers crop health insights at an unmatched 4K resolution, allowing you to confidently leverage scouting results to perform analysis and help take action.

FEATURES & BENEFITS

- Simultaneously collects 12MP NDVI and NDRE data
- Small form factor, fits a GoPro® HERO4 footprint
- Compatible with several drone platforms
- Quickly attaches to DJI Inspire 1 or Inspire 2 drones with easy Lock-and-Go gimbal technology
- Seamlessly integrates with FieldAgent™ Web, Mobile, and Desktop platform

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INSTALLATION OPTIONS

The Sentera Double 4K NDVI + NDRE sensor variant can be integrated on multiple platforms including the Sentera Omni™, DJI Phantom 4, and Lockheed Martin Indago quadrotor drones or a PHX™ fixed-wing drone.

Additionally, the Sentera lock-and-go gimbal allows you to simply click the Double 4K into a DJI Inspire 1 or 2, or a Matrice 100 or 200 drone. The gimbal stabilizes the sensor and has a dedicated GPS for geo-tagging data. Without tools or modifications, you can quickly swap between the Double 4K sensor and other gimbals, including the X3, XT, and X5.

Lock-and-Go Gimbaled
Double 4K Sensor on DJI Inspire 1

Double 4K Sensor on DJI Phantom 4

Double 4K Sensor on Sentera Omni

Lock-and-Go Gimbaled
Double 4K Sensor on DJI Inspire 2

Double 4K Sensor on Sentera PHX

Double 4K Sensor on
Lockheed Martin Indago

SPECIFICATIONS

Sensors	12.3MP BSI CMOS • Sony Exmor R™ IMX377 Sensor
Spectral bands	NDVI • Red: 625nm x 100nm width • NIR: 850nm x 40nm width NDRE • Red Edge: 720nm x 40nm width • NIR 840nm x 20nm width
Size	2.32" x 1.61" x 1.75" (59mm x 41mm x 44.5mm) • Fits the GoPro® Hero4 footprint
Weight	80 grams
Power	8W typical / 12W maximum
Image format	JPEG
Field of view	60° HFOV (4K Stills / Video) 1080p ranges 30° - 60° HFOV

Data capture	12.3MP Stills 4K Ultra HD video @ 30fps 1080p/720p Video • H.264 encoding
Interfaces	Ethernet, Serial/UART. USB 3.0, I2C, GPIO • Web-based camera configuration • Pushbutton control for single photo and mode select
Control	Open ICD for triggering and metadata logging over serial or IP, compatible with: • Lockheed Martin Kestrel™ autopilot • PIXHAWK™ autopilot • MAVLink™-based systems • Customized ICD options available
Storage	64GB SD card, standard and removable
Data integration	Seamlessly integrates with Sentera FieldAgent™ Web, Mobile, and Desktop Software

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FIELDAGENT™

Contact us—let's do something amazing!

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