MULTISPECTRAL DOUBLE 4K SENSOR

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

The game-changing Sentera Multispectral Double 4K Sensor can capture five precise spectral light bands: blue, green, red, red-edge, and near-infrared (NIR). With this innovative filtering, you can collect full-color imagery as well as plant health indices such as normalized difference vegetation index (NDVI) or normalized difference red edge (NDRE) data, all at an unmatched 4K resolution.

With the Multispectral Double 4K Sensor, you will enjoy easily collecting, using and integrating the collected data with your existing agriculture tools and platforms.

FEATURES & BENEFITS
- Capture five spectral bands: blue, green, red, red-edge, and near-infrared
- Simultaneously collects 12MP NDVI or NDRE and high-resolution RGB data
- Capable of 4K ultra-high-definition video capture
- Compatible with several drone platforms
- Easily attach to a DJI Inspire 1, Inspire 2, Matrice 100 or 200 drone with easy Lock-and-Go gimbal
- Seamlessly integrates with FieldAgent™ Web, Mobile, and Desktop software

THE ONLY COMPLETE REAL-TIME CROP SCOUTING SOLUTION

Sentera's complete solutions enable you to collect and make use of highly precise on-field data in real time. Easily compare, share, and analyze your NDVI or NDRE plant health data in no time. Creating actionable data has never been easier.
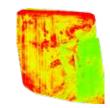

FieldAgent Mobile App **+** Precision Scouting Tool **+** FieldAgent Web App **=** Highly Precise, Actionable Plant Health Data

INSTALLATION OPTIONS

The Sentera Multispectral Double 4K sensor can be integrated on multiple platforms including the Sentera Omni™ quadrotor or PHX™ fixed-wing drones.

Additionally, the Sentera lock-and-go gimbal allows you to simply click the Multispectral Double 4K into a DJI Inspire 1, Inspire 2, Matrice 100 or 200 drones. The gimbal stabilizes the sensor, has a dedicated GPS for geo-tagging data, and can be configured to capture imagery with the your desired level of overlap. No tools or modifications are required for this integration, allowing you to quickly swap between the Multispectral Double 4K sensor and other gimbals, including the X3, XT, and X5.

Multispectral Double 4K Sensor on Sentera PHX Drone

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

SPECIFICATIONS

Sensors	12.3MP BSI CMOS • Sony Exmor R™ IMX377 Sensor
Spectral bands	• Blue: 446nm x 60nm width • Green: 548nm x 45nm width • Red: 650nm x 70nm width • Red Edge: 720 nm x 40nm width • Near-Infrared (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	Data integrates with Sentera FieldAgent™ Web, Mobile, & Desktop Software

Contact us—let's do something amazing!

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