



# Sentera Double 4K NDVI/NDRE Sensor

## for DJI Mavic 3 Enterprise

The Sentera Double 4K NDVI/NDRE sensor, designed for the DJI Mavic 3 Enterprise (M3E), provides precise and versatile solutions for agricultural professionals. This system simultaneously captures high-resolution RGB imagery and critical plant health indices (NDVI/NDRE), enabling efficient and actionable insights for crop scouting and vegetation analysis. With this integration, users can scout and diagnose field conditions more effectively while gaining a visual and analytical understanding of their crops.

Seamlessly integrating with Sentera's FieldAgent software, the Double 4K offers a streamlined workflow for faster decision-making in the field, providing an efficient, cost-effective solution for agronomists, growers, and crop consultants.

## Key Features

- **Simultaneous NDVI & NDRE Data Capture:** Innovative filtering allows users to collect both NDVI and NDRE data in the same flight, providing comprehensive insights into plant health.
- **High-Resolution RGB and NDVI/NDRE Capture:** Delivers high-resolution 20MP RGB imagery alongside 4K NDVI and NDRE outputs, making it ideal for both analytical and visual context, enhancing scouting and diagnosis efforts.
- **Lightweight Design for Extended Missions:** At only 80 grams, the sensor's minimal weight enables longer flight times and more ground coverage per flight, maximizing operational efficiency.
- **Seamless Integration:** Fully compatible with DJI Mavic 3 Enterprise and Sentera's FieldAgent software suite, ensuring quick and easy data integration and analysis.

## Applications

### Precision Agriculture

Collect NDVI and NDRE data to assess plant health, detect stress, and make informed decisions for nutrient management.

### Environmental Monitoring

Track vegetative health across ecosystems, monitor environmental changes, and support conservation efforts.

### Crop Scouting

Streamline field scouting with accurate, high-resolution imagery to detect issues such as pest infestations, disease, or water stress.

### Faster Data Processing for Efficient Workflows

Enjoy faster data collection and simplified processing compared to multispectral alternatives, helping users make quick, actionable decisions in the field.



## Sentera Double 4K NDVI/NDRE Sensor

### SPECIFICATIONS\*\*

Sensor	12.3MP BSI CMOS (Sony Exmor R IMX377)
Lenses	Standard: 5.4mm, HFOV: 60°
Ground Sampling Distance (GSD)	1.8cm at 60m, 3.5cm at 120m
Spectral Bands	NDVI (Red: 625nm x 100nm, NIR: 850nm x 40nm) NDRE (Red Edge: 720nm x 40nm, NIR: 840nm x 20nm)
Frame Rate	12.3MP stills, 4K Ultra HD video at 30fps
Image Format	JPEG (stills), 1080p/720p Video (H.264 encoding)
Storage	64GB SD card (standard and removable)
Dimensions	59mm x 40.9mm x 44.5mm (2.32" x 1.61" x 1.75")
Weight	80 grams
Power Consumption	8W typical / 12W maximum
Interfaces	Ethernet, Serial/UART, USB 3.0, I2C, GPIO
Control	Compatible with PIXHAWK autopilot and MAVLink-based systems
Supported Drones	DJI Mavic 3 Enterprise Sentera PHX DJI Phantom 4 Pro DJI Mavic 2 Pro

\*\*Specifications are subject without notice

\*\*With appropriate post-processing



### Why Choose Sentera Double 4K NDVI/NDRE?

The Sentera Double 4K NDVI/NDRE sensor provides an efficient and cost-effective solution for agricultural and environmental professionals seeking high-resolution RGB and NDVI/NDRE imagery in a lightweight, easy-to-integrate package. Designed to enhance DJI Mavic 3 Enterprise capabilities, the Double 4K sensor's streamlined data processing ensures faster decision-making in the field. With wide compatibility across existing drone platforms, the Double 4K delivers a practical, scalable upgrade for users seeking reliable, high-quality crop and environmental insights without the complexity of multispectral data processing.



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