# 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.

![sentera SENSORS & DRONES logo]

## 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

Visit us at senterasensors.com to learn more.

# SPECIFICATIONS**

## Sentera Double 4K NDVI / NDRE Sensor

| | |
|---|---|
| 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 30 FPS |
| 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 (2.32in x 1.61in x 1.75in) |
| Weight | 80g |
| 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 to change 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.



Scan QR code to
shop this product

## sentera
### SENSORS & DRONES