VERSATILE

Equipped with wide normalized difference vegetation index (NDVI) and narrow RGB imagery, Sentera’s Double 4K Analytics Sensor allows users to gain production analysis and full coverage crop health mapping in single flight.

ACCURATE

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

- Simultaneously collects 12MP NDVI and 4x zoom RGB imagery
- Bluetooth enabled
- Tassel Count Analytics enabled
- Quickly attaches to DJI Inspire and Matrice drones with easy Lock-and-Go gimbal technology
- Seamlessly integrates with FieldAgent Web, Mobile, and Desktop platform.

CUTTING-EDGE

Have confidence in the data you collect and analyze. Sentera’s Double 4K Analytics Sensor helps you gain valuable insights on Stand Count, Tassel Count, Crop Health, Weed Maps, and Elevation Maps.
Installation Options
The Sentera Double 4K Analytics Sensor variant can be integrated on multiple platforms including the DJI Matrice 200, DJI Matrice 210, DJI Matrice 300, DJI Inspire 1, and DJI Inspire 2 drone or a PHX fixed-wing drone.

The Sentera Lock-and-Go gimbal allows you to simply click the Double 4K Sensor into a DJI Inspire or Matrice 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.

PERFORMANCE SPECIFICATIONS

Sensors:
- 12.3PM BSI CMOS
- Sony Exmore R IMX377 Sensor

Ground Sample Distance:
- NDVI
  - 3.5cm @ 400ft
  - 1.75cm @ 200ft
- RGB
  - 0.75cm @ 400ft
  - 0.38cm @ 200ft

Size:
2.32” x 1.61” x 1.75” (59mm x 41mm x 44.5mm)

Weight:
80 grams

Power:
8W typical / 12W maximum

Image Format:
JPEG

Storage:
64GB SD card, standard and removable

Field of View:
- 60 degree HFOV - NDVI
- 15 degree HFOV - Zoom RGB

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

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

Data Integration:
Seamlessly integrates with Sentera FieldAgent Web, Mobile, and Desktop Software.