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, NDRE and/or 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 or M200 series drone with a removable, gimbaled, Lock & Go or AGX710
MULTISPECTRAL DOUBLE 4K SENSOR

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.

INSTALLATION OPTIONS

The Sentera Multispectral Double 4K sensor can be integrated on multiple platforms including the Sentera PHX fixed-wing drone.

Additionally, the Sentera Lock & Go and AGX710 gimbals allow you to simply click the Multispectral Double 4K into a DJI Inspire 1 or Inspire 2 drone. 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.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Sensors</th>
<th>12.3MP BSI CMOS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sony Exmor R™ IMX377 Sensor</td>
</tr>
<tr>
<td>Spectral bands</td>
<td>Blue: 466nm x 60nm width</td>
</tr>
<tr>
<td></td>
<td>Green: 548nm x 45nm width</td>
</tr>
<tr>
<td></td>
<td>Red: 650nm x 70nm width</td>
</tr>
<tr>
<td></td>
<td>Red Edge: 720 nm x 40nm width</td>
</tr>
<tr>
<td></td>
<td>Near-Infrared (NIR): 840nm x 20nm width</td>
</tr>
<tr>
<td>Size</td>
<td>2.32” x 1.61” x 1.75” (59mm x 41mm x 44.5mm)</td>
</tr>
<tr>
<td></td>
<td>Fits the GoPro® Hero4 footprint</td>
</tr>
<tr>
<td>Weight</td>
<td>80 grams</td>
</tr>
<tr>
<td>Power</td>
<td>8W typical / 12W maximum</td>
</tr>
<tr>
<td>Image format</td>
<td>JPEG</td>
</tr>
<tr>
<td>Field of view</td>
<td>60° HFOV (4K Stills / Video)</td>
</tr>
<tr>
<td></td>
<td>1080p ranges 30° - 60° HFOV</td>
</tr>
</tbody>
</table>

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
  - PXHAWK™ autopilot
  - MAVLink™-based systems
  - Customized ICD options available

Storage

- 64GB SD card, standard and removable

Contact us - Start scouting smarter!

Sentera, Inc
6636 Cedar Ave South, Ste 250
Minneapolis, MN 55423
+1 (844) SENTERA (844.736.8372)
+1 (612) 204.2000 direct
info@sentera.com

©2017-2019 Sentera, Inc. All rights reserved. Patent Pending. Inspire and Matrice are registered trademarks of DJI.