## Sensor Comparison

<table>
<thead>
<tr>
<th></th>
<th>RedEdge-MX</th>
<th>Altum</th>
<th>(Either) + DJI SkyPort</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Spectral Bands</strong></td>
<td>Blue, green, red, red edge, near-infrared (NIR)</td>
<td>Blue, green, red, red edge, near-infrared (NIR)</td>
<td>(Specific to camera)</td>
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<tr>
<td><strong>Thermal Band</strong></td>
<td>--</td>
<td>8-14 μm</td>
<td>(Specific to camera)</td>
</tr>
<tr>
<td><strong>Spatial Resolution</strong></td>
<td>8 cm/pixel per band</td>
<td>5.2 cm/pixel per band 81 cm/pixel thermal</td>
<td>(Specific to camera)</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>SD Card</td>
<td>USB 3.0 (unlimited)</td>
<td>(Specific to camera)</td>
</tr>
</tbody>
</table>
| **RGB Output**            | 3.6 MP  
• Global shutter for distortion-free images.  
• Aligned with all bands | 9.6 MP  
• Global shutter for distortion-free images.  
• Aligned with all bands | (Specific to camera) |
| **Capture Rate**          | 1 capture per second (all bands), 12-bit or 16-bit RAW | 1 capture per second (all bands), 12-bit or 16-bit RAW | (Specific to camera) |
| **Communication with drone** | Serial, Mavlink, or Ethernet (Requires integration) | Serial, Mavlink or Gig E Ethernet (Requires integration) | Automatic  
(DJI M200 or 210) |

### OUR SENSORS ARE...
- Capable of integrating into almost any drone
- RTK ready
- Made in the USA
- Used by customers in 75+ countries, and in over 100 research publications

### THE DATA CAPTURED IS...
- 12 or 16 bit TIFF files
- Radiometrically calibrated
- Geotagged automatically
- Open and compatible with almost any processing platform

Imagery by MicaSense Altum  
Layers Shown: Thermal, RGB, DSM
Sensors for UAVs and Vegetation Mapping

RedEdge·MX™
by MicaSense®

The industry standard multispectral sensor

Open interfaces for easy integration
(Mavlink, Ethernet, Serial)

Five narrow bands
(Red, Green, Blue, Red Edge, Near Infrared)

8 cm/pixel GSD at 400 ft (120 m)

Open outputs for processing
SD card for storage
DLS 2 with Embedded GPS
8 light sensors and 12 directional sensors

Thermal, multispectral, and high-resolution RGB

Open interfaces for easy integration
(Serial, Mavlink, GigE Ethernet)

High capacity USB for storage

Synchronized narrow bands and radiometric thermal sensor

DLS 2 with Embedded GPS
8 light sensors and 12 directional sensors

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