Capture 4.2Mpx raw images made of nine 680x680 pixels spectral sub-images with the CMS4 snapshot multispectral cameras.

**CMS4 Series**

4Mpx Multispectral Cameras

**CMS4-C (400-700nm)**

**COLOR** dedicated

**Applications**
- Color measurements
- Color process control
- Waste sorting (papers, plastic bottles, ...)
- Fruits & vegetables aspect control
...

**CMS4-V (550-800nm)**

**VEGETATION** dedicated

**Applications**
- Vegetation index measurement (NDVI, MCARI, MSR, SAVI, TVI, ...)
- Field mapping for modern agriculture monitoring
- Fertilization and irrigation optimization
- Environmental monitoring
...

**CMS4-S (650-900nm)**

**SECURITY** dedicated

**Applications**
- Surveillance
- Authentication
- Forensics
- Oximetry
- Defense
...

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CMS4 Series
4Mpx Multispectral Cameras

<table>
<thead>
<tr>
<th></th>
<th>Wavelength range (nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMS4-C</td>
<td>430-700 nm</td>
</tr>
<tr>
<td>CMS4-V</td>
<td>550-830 nm</td>
</tr>
<tr>
<td>CMS4-S</td>
<td>650-930 nm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Camera</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Bands</td>
<td>9 (8 colors + 1 B&amp;W)</td>
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<tr>
<td>Bandwidth (FWHM)</td>
<td>20 to 40 nm</td>
</tr>
<tr>
<td>Imager Type</td>
<td>CMOS sensor</td>
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<tr>
<td>Spatial Resolution</td>
<td>2048 x 2048 full picture (4.2 Mpx)</td>
</tr>
<tr>
<td>Frame Rate</td>
<td>up to 95 full frame/s</td>
</tr>
<tr>
<td>Pixel Pitch</td>
<td>5.5 microns</td>
</tr>
<tr>
<td>Bit Depth</td>
<td>10</td>
</tr>
<tr>
<td>Interfaces</td>
<td>USB3.0</td>
</tr>
</tbody>
</table>

Typical transmission bands (filter)... ... corresponding typical QE (sensor)

Hybrid assembly

Pixelated Multispectral Filter

CMS-Sensor