

CMS Series

1Mpx Multispectral Cameras

SILIOS Technologies' CMS-Sensors and CMS Cameras are based on the *COLOR-SHADES*® multispectral technology. The C, V and S ranges of sensors and cameras are delivered in snapshot configuration. The output signal is built of 8 interleaved colored pictures plus 1 wideband picture over specific wavelength ranges to address a wide spectrum of applications.



CMS-C (430-700nm) **COLOR** dedicated

Applications

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

...

CMS-V (550-830nm) **VEGETATION** dedicated

Applications

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

...

CMS-S (650-930nm) **SECURITY** dedicated

Applications

- Surveillance
- Authentication
- Forensics
- Oximetry
- Defense

...

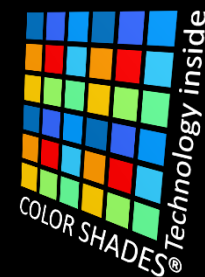


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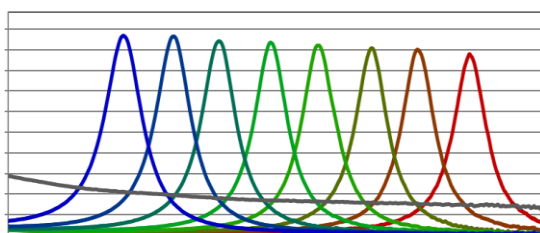
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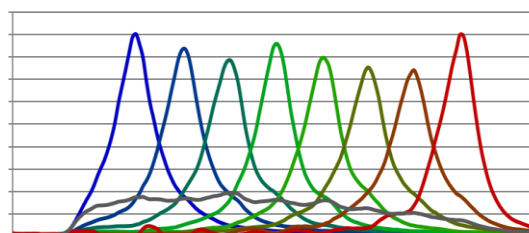


	Wavelength range (nm)
CMS-C	430-700 nm
CMS-V	550-830 nm
CMS-S	650-930 nm

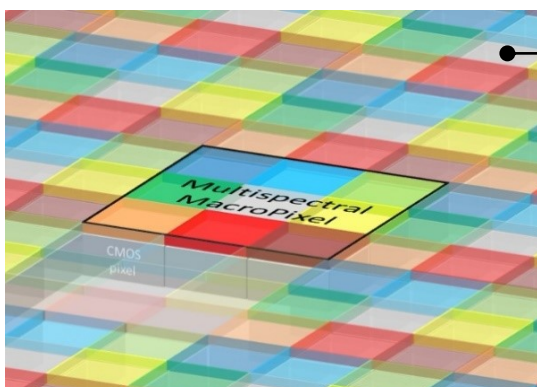
	Camera
Number of Bands	9 (8 colors + 1 B&W)
Bandwidth (FWHM)	30 to 50 nm
Imager Type	CMOS sensor
Spatial Resolution	1280 x 1024 full picture (1.3 Mpx)
Frame Rate	up to 60 full frame/s
Pixel Pitch	5.3 microns
Bit Depth	10
Interfaces	USB3.0, GigE



Typical transmission bands (filter)...

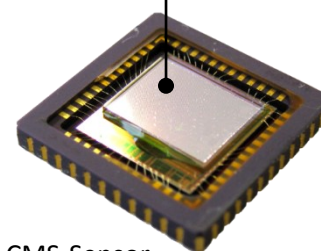


... corresponding typical QE (sensor)



Pixelated Multispectral Filter

Hybrid assembly



CMS-Sensor



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