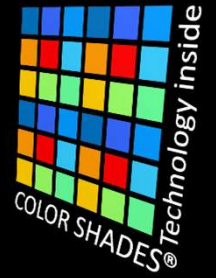


CMS Series

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 (400-700nm) **COLOR** dedicated

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

CMS-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
 - ...

CMS-S (650-900nm) **SECURITY** dedicated

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

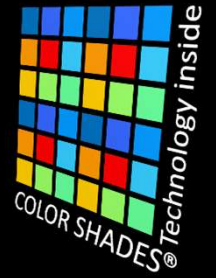


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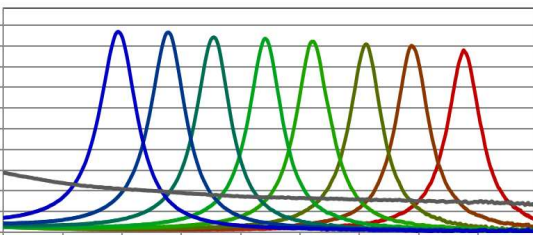
CMS Series

1Mpx Multispectral Cameras

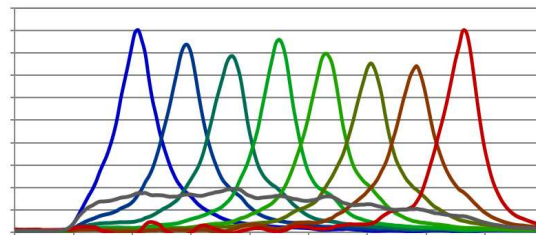


	Wavelength range (nm)
CMS-C	430-700 nm
CMS-V	550-830 nm
CMS-S	650-930 nm

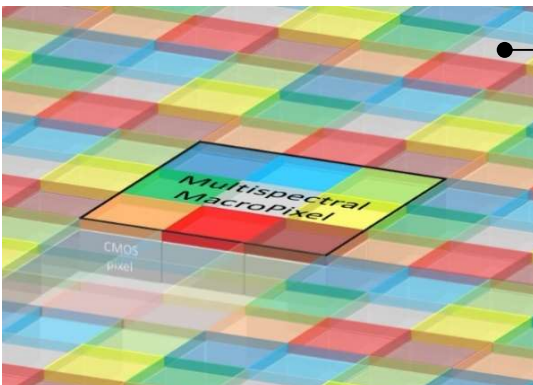
	Camera
Number of Bands	9 (8 colors + 1 B&W)
Bandwidth (FWHM)	30 to 50 nm
Imager Type	CMOS sensor
Spatial Resolution	1280 x 1024 full picture (1.3 Mpx)
Frame Rate	up to 60 full frame/s
Pixel Pitch	5.3 microns
Bit Depth	10
Interfaces	USB3.0, GigE



Typical transmission bands (filter)...

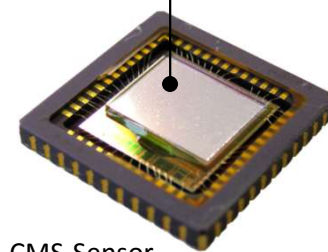


... corresponding typical QE (sensor)



Pixelated Multispectral Filter

Hybrid assembly



CMS-Sensor



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