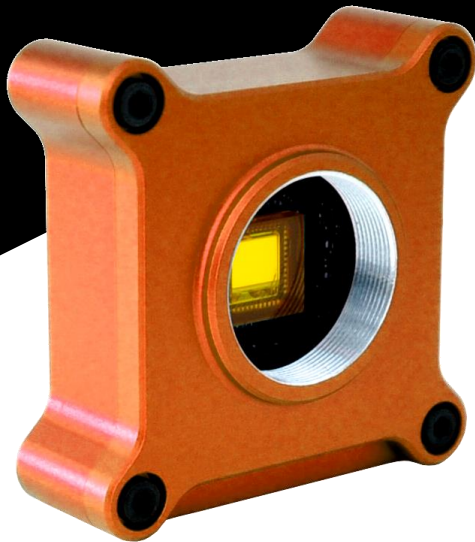


CMS Series

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

...

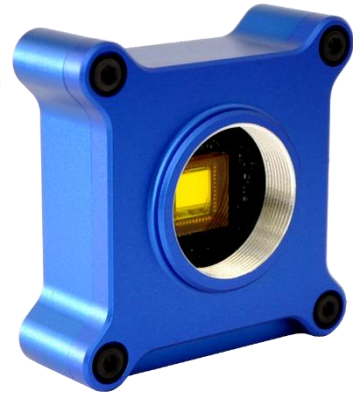


CMS-V (550-800nm)
VEGETATION dedicated

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

...



Tel : +33 (0)4 42 53 89 60
Fax : +33 (0)4 42 53 89 59
Email : contact@silios.fr
www.silios.com

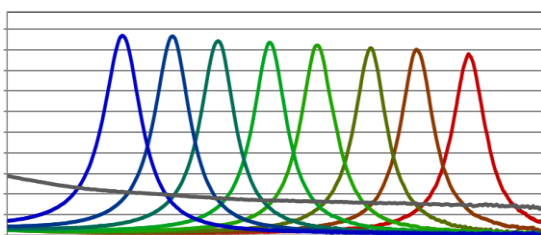
CMS Series

1Mpx Multispectral Cameras

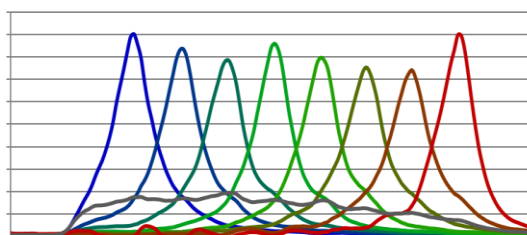


	Wavelength range (nm)
CMS-C	430-700 nm
CMS-V	550-830 nm
CMS-S	650-930 nm

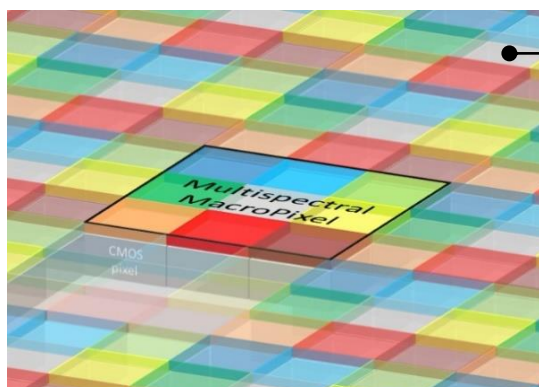
	Camera
Number of Bands	9 (8 colors + 1 B&W)
Bandwidth (FWHM)	20 to 40 nm
Imager Type	CMOS sensor
Spatial Resolution	1280 x 1024 full picture (1.3 Mpx)
Frame Rate	up to 60 full frame/s
Pixel Pitch	5.3 microns
Bit Depth	10
Interfaces	USB3.0, GigE



Typical transmission bands (filter)...

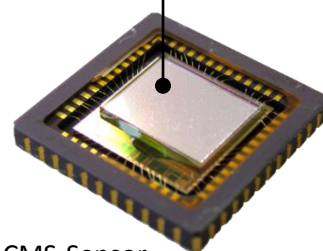


... corresponding typical QE (sensor)



Pixelated Multispectral Filter

Hybrid assembly



CMS-Sensor

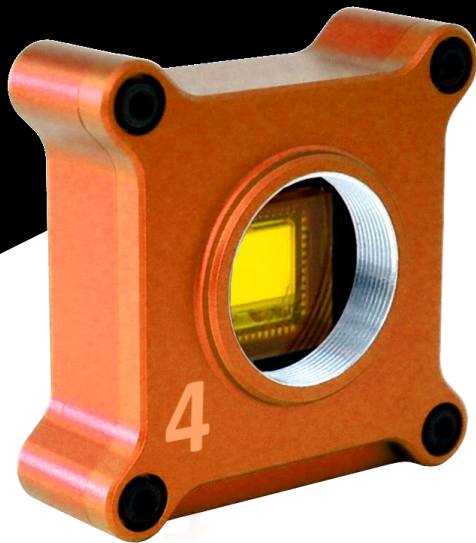


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CMS4 Series

4Mpx Multispectral Cameras

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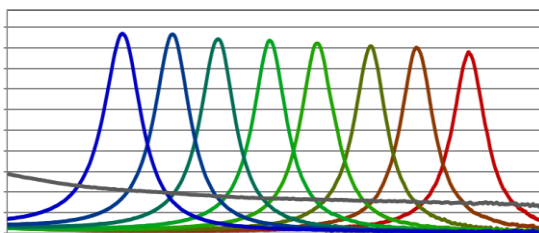
CMS4 Series

4Mpx Multispectral Cameras

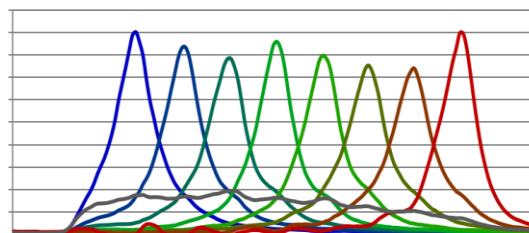


	Wavelength range (nm)
CMS4-C	430-700 nm
CMS4-V	550-830 nm
CMS4-S	650-930 nm

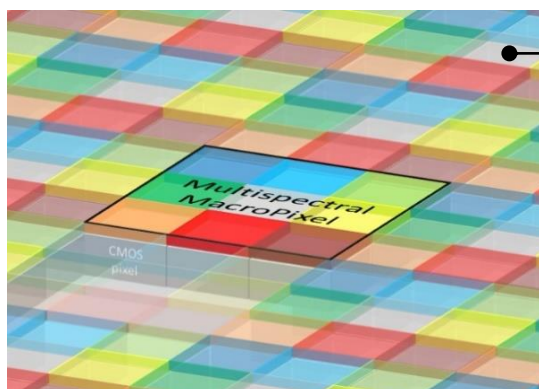
	Camera
Number of Bands	9 (8 colors + 1 B&W)
Bandwidth (FWHM)	20 to 40 nm
Imager Type	CMOS sensor
Spatial Resolution	2048 x 2048 full picture (4.2 Mpx)
Frame Rate	up to 95 full frame/s
Pixel Pitch	5.5 microns
Bit Depth	10
Interfaces	USB3.0



Typical transmission bands (filter)...

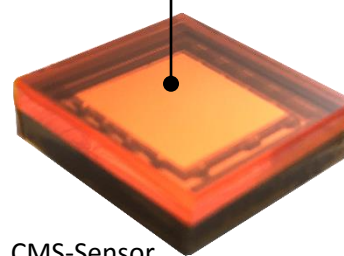


... corresponding typical QE (sensor)



Pixelated Multispectral Filter

Hybrid assembly



CMS-Sensor



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