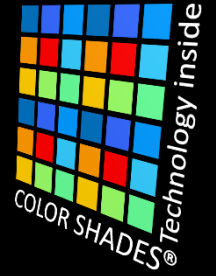


# CMS Series

## 1Mpx Multispectral Cameras

SILIOS Technologies' CMS-Sensors and CMS Cameras are based on the *COLOR-SHADES*<sup>®</sup> 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

...



SILIOS Technologies  
ZI Peynier-Rousset  
Rue Gaston Imbert prolongée  
13790 Peynier (France)

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

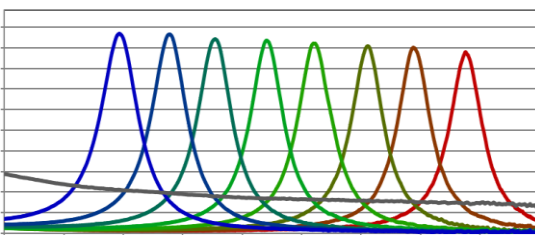
# CMS Series

## 1Mpx Multispectral Cameras

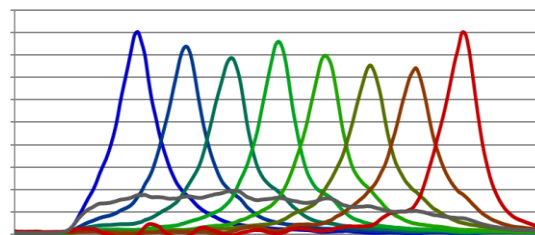


	Wavelength range (nm)
CMS-C	430-700 nm
CMS-V	550-830 nm
CMS-S	650-930 nm

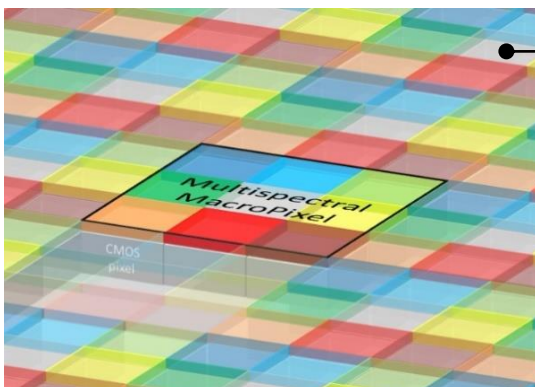
	Camera
Number of Bands	9 (8 colors + 1 B&W)
Bandwidth (FWHM)	20 to 40 nm
Imager Type	CMOS sensor
Spatial Resolution	1280 x 1024 full picture (1.3 Mpx)
Frame Rate	up to 60 full frame/s
Pixel Pitch	5.3 microns
Bit Depth	10
Interfaces	USB3.0, GigE



Typical transmission bands (filter)...

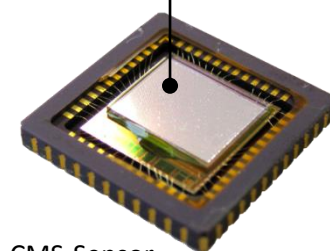


... corresponding typical QE (sensor)



Pixelated Multispectral Filter

Hybrid assembly



CMS-Sensor



SILIOS Technologies  
 ZI Peynier-Rousset  
 Rue Gaston Imbert prolongée  
 13790 Peynier (France)

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