

CMS : MULTI-SPECTRAL CAMERAS

COLOR SHADES® Technology inside



SILIOS Technologies' CMS-Sensors and CMS-Cameras are based on the *COLOR-SHADES*® multi-spectral 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

- Intrusion detection
- Authentication
- Forensics
- Rescue
- Defense
- ...



CMS : MULTI-SPECTRAL CAMERAS

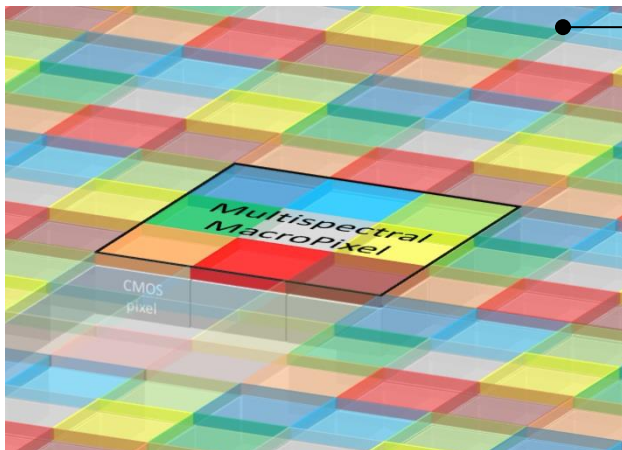
COLOR SHADES® Technology inside



Specifications

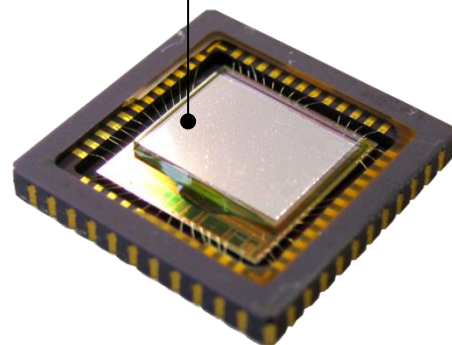
	Wavelength range (nm)
CMS-C	400 - 700 nm
CMS-V	550 – 800 nm
CMS-S	650 – 900 nm

	Sensor	Camera
Number of bands	9 (8 colors + 1 B&W)	9 (8 colors + 1 B&W)
Bandwidth (FWHM)	30 nm	30 nm
Imager type	CMOS sensor (e2V Ruby)	CMOS sensor (e2V Ruby)
Spatial resolution	1280x1024 full picture	1280x1024 full picture
Frame rate	up to 60 full frame/s	up to 25 full frame/s
Pixel pitch	5.3 microns	5.3 microns
Bit depth	8 or 10	8
IO port	-	USB 2.0 (optional : USB 3.0, GigE)



Pixelated Multi-spectral Filter

Hybrid assembly



CMS-Sensor

COLOR SHADES®



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We are on the same wavelength