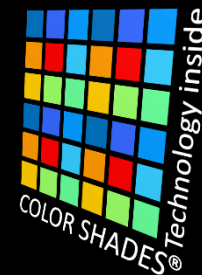


# TOUCAN Camera

Wide Spectral Range  
Multispectral Camera

SILIOS Technologies' TOUCAN Sensors and Cameras are based on the *COLOR-SHADES*® pixelated filter technology.

These snapshot multispectral cameras capture 4.2Mpx raw images made of ten 512x512 pixels spectral sub-images over the full VIS+NIR spectral range (400-900nm).



**Snapshot Multispectral Camera**  
**400-900 nm Spectral Range**  
**10 Spectral Bands**  
**4.2 Mpx Raw Spatial Resolution**  
**10 Bits**  
**USB3.0**



**THE UNIQUE VIS+NIR  
SNAPSHOT & SYNCHRONOUS  
MULTISPECTRAL CAMERA  
AVAILABLE ON THE MARKET !**



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

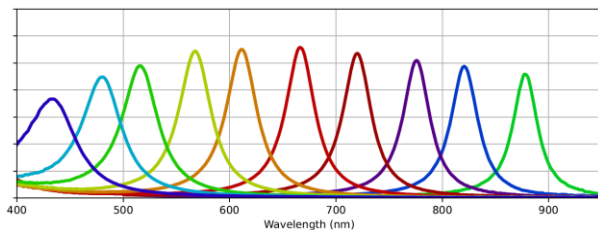
Tel : +33 (0)4 42 53 89 60  
Fax : +33 (0)4 42 53 89 59  
Email : [contact@silios.fr](mailto:contact@silios.fr)  
[www.silios.com](http://www.silios.com)

# TOUCAN Camera

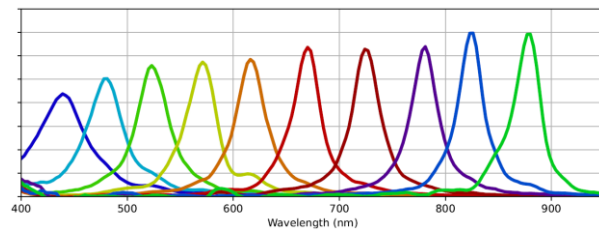
Wide Spectral Range  
Multispectral Camera



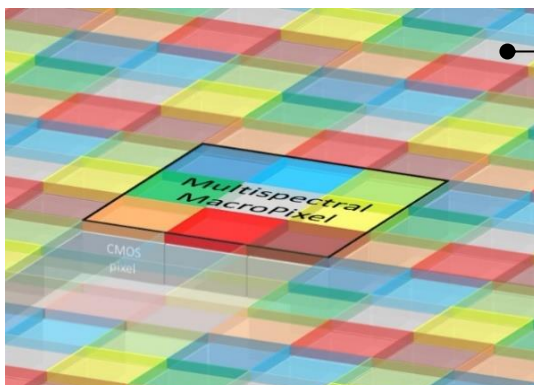
|                       | FEATURES                                                               |
|-----------------------|------------------------------------------------------------------------|
| Wavelength range (nm) | 420-870 nm                                                             |
| Number of Bands       | 10                                                                     |
| Bandwidth (FWHM)      | 30 to 50 nm                                                            |
| Imager Type           | CMOS sensor                                                            |
| Spatial Resolution    | 2048 x 2048 full picture (4.2 Mpx)                                     |
| Frame Rate            | Camera : 65 FPS (10 bits) / <i>COLOR SHADES Lab</i> : 20 FPS (10 bits) |
| Pixel Pitch           | 5.5 microns                                                            |
| Bit Depth             | 10                                                                     |
| Interfaces            | USB3.0                                                                 |



Typical transmission bands (filter)...

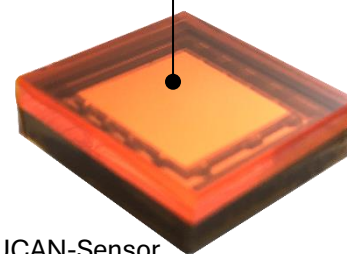


... corresponding typical QE (sensor)



Pixelated Multispectral Filter

Hybrid assembly



TOUCAN-Sensor



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