

# 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 nine 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 MULTISPECTRAL CAMERA  
AVAILABLE ON THE MARKET !**

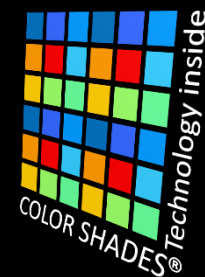


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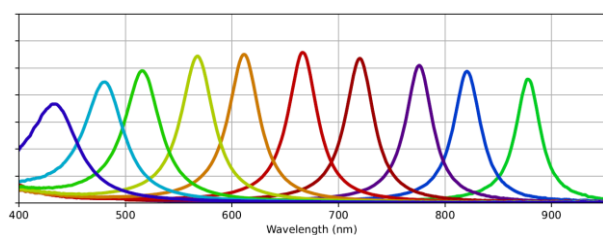
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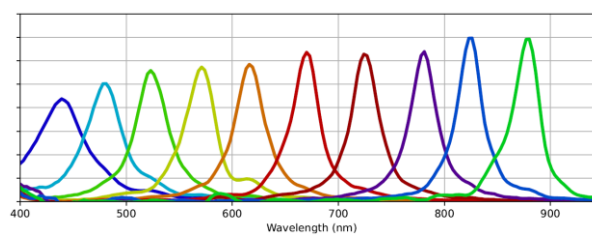
Wide Spectral Range  
Multispectral Camera



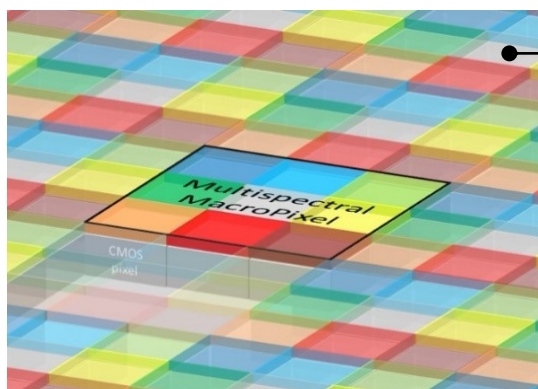
	FEATURES
Wavelength range (nm)	420-870 nm
Number of Bands	10
Bandwidth (FWHM)	30 to 50 nm
Imager Type	CMOS sensor
Spatial Resolution	2048 x 2048 full picture (4.2 Mpx)
Frame Rate	Camera : 65 FPS (10 bits) / COLOR SHADES Lab : 20 FPS (10 bits)
Pixel Pitch	5.5 microns
Bit Depth	10
Interfaces	USB3.0



Typical transmission bands (filter)...

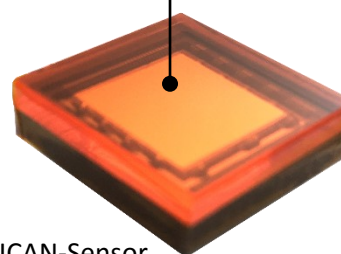


... corresponding typical QE (sensor)



Pixelated Multispectral Filter

Hybrid assembly



TOUCAN-Sensor



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