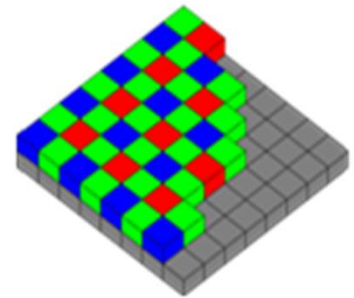


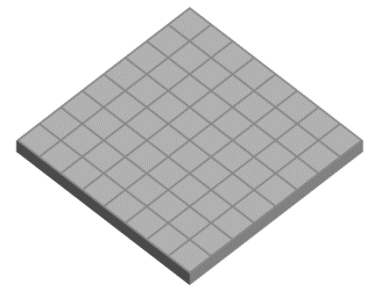
## CUSTOM BAYER MATRICES FOR MULTI-SPECTRAL IMAGING

Standard **BAYER MATRIX** allows to produce colored images with 3 different "color filters" Red, Green, Blue

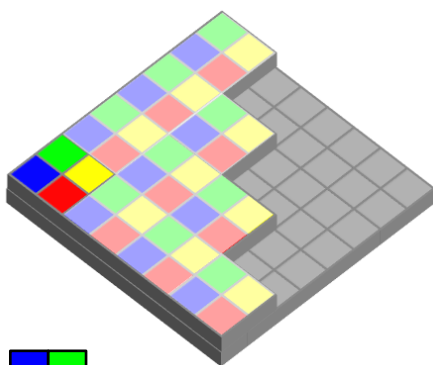


SILIOS Technologies' Custom **COLOR SHADES® MATRIX FILTERS** (pixelated filters) allow to generate 4, 9 or 16 different colored images.

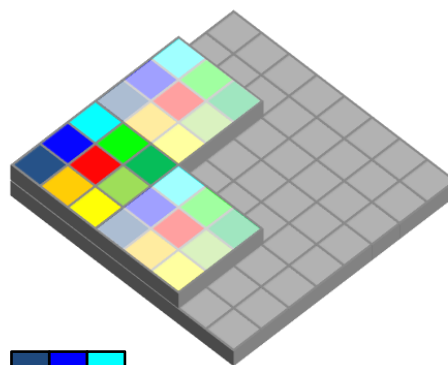
The pixelated filter is aligned and assembled onto the commercial imager (hybridization).



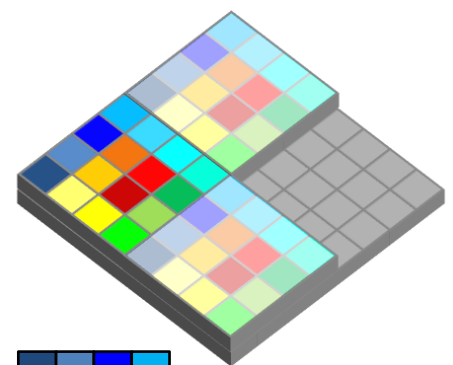
Standard imager  
Resolution : N x M



4 interleaved images  
Resolution : N/2 x M/2



9 interleaved images  
Resolution : N/3 x M/3



16 interleaved images  
Resolution : N/4 x M/4



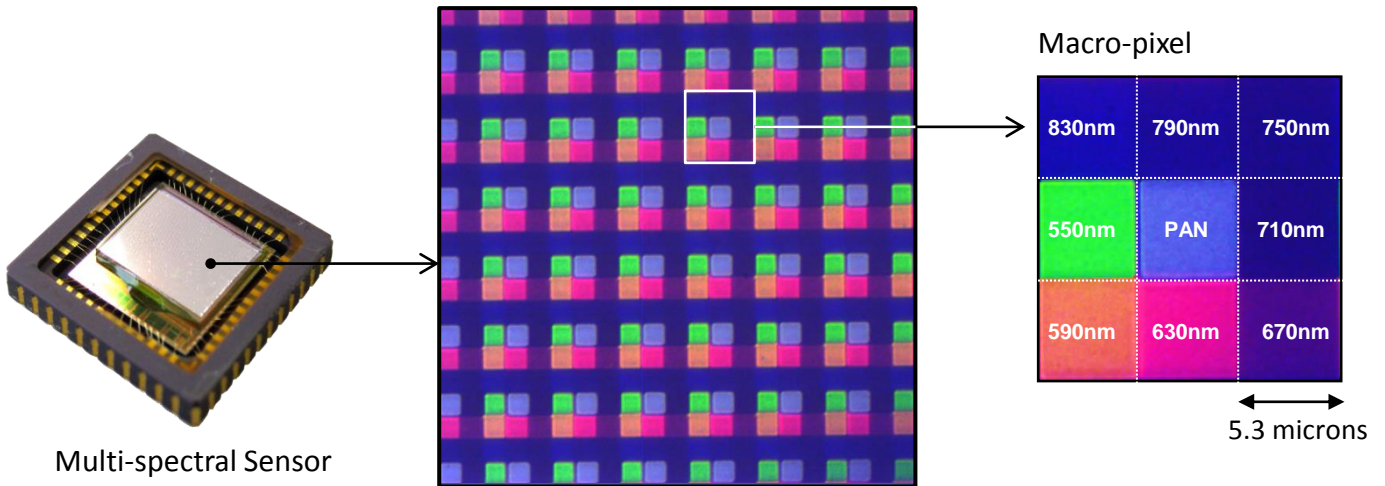
# CMS : MULTI-SPECTRAL FILTERS

*COLOR SHADES®* Technology inside



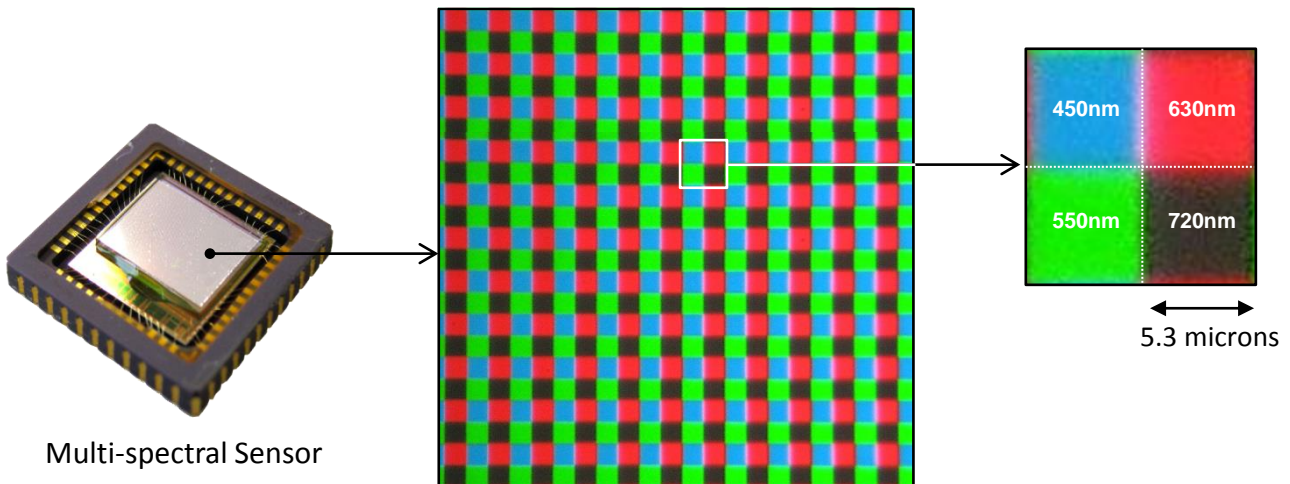
## Example 1

Spectral characteristics : 8 bands in the range [550-800nm] + 1 panchromatic  
 Resolution : 1.3 Mp (1280x1024)  
 Pixel pitch : 5.3 microns



## Example 2

Spectral characteristics : 4 bands in the range [450-750nm] (Blue, Green, Red, NIR)  
 Resolution : 1.3 Mp (1280x1024)  
 Pixel pitch : 5.3 microns



COLOR SHADES®



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We are on the same wavelength