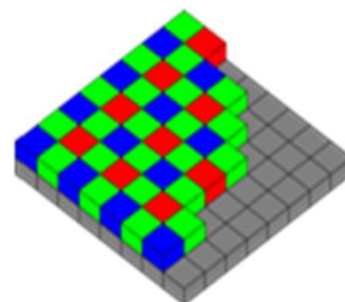
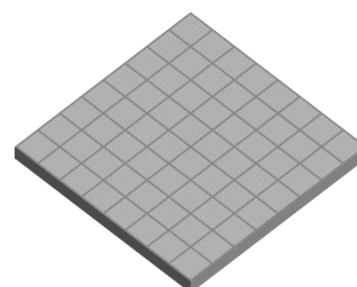


CUSTOM BAYER MATRICES FOR MULTI-SPECTRAL IMAGING

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



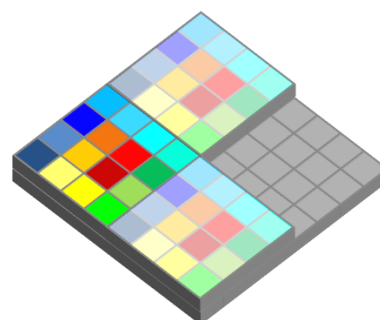
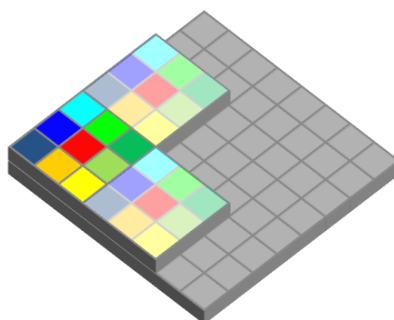
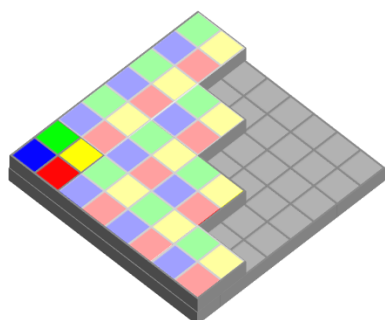
SILIOS Technologies' Custom **COLOR SHADES® MATRIX FILTERS** (pixelated filters) allow to generate 4, 9 or 16 different colored images organized in matrices (for snap shot configuration) or in lines (for push broom configuration).





Standard imager
Resolution : $N \times M$


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

SNAP SHOT

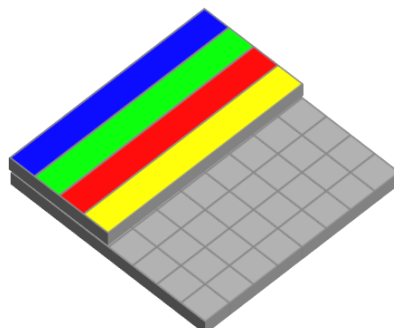


 4 interleaved images
Resolution : $N/2 \times M/2$

 9 interleaved images
Resolution : $N/3 \times M/3$

 16 interleaved images
Resolution : $N/4 \times M/4$

PUSH BROOM



Ex: 4 interleaved spectral lines
for push broom camera system



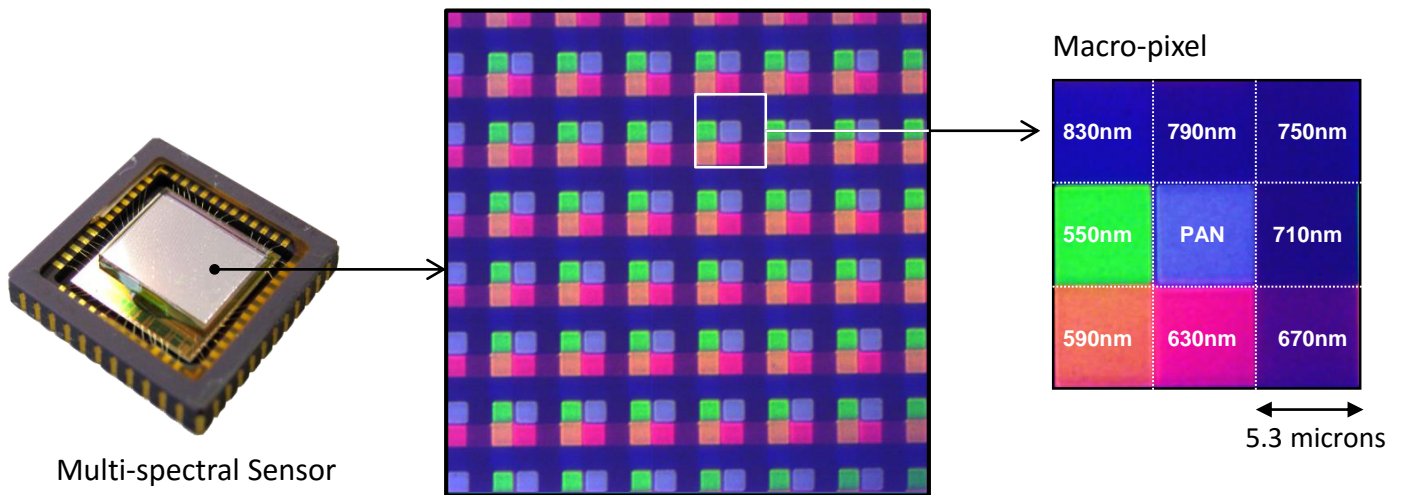
CMS : MULTI-SPECTRAL FILTERS

COLOR SHADES® Technology inside



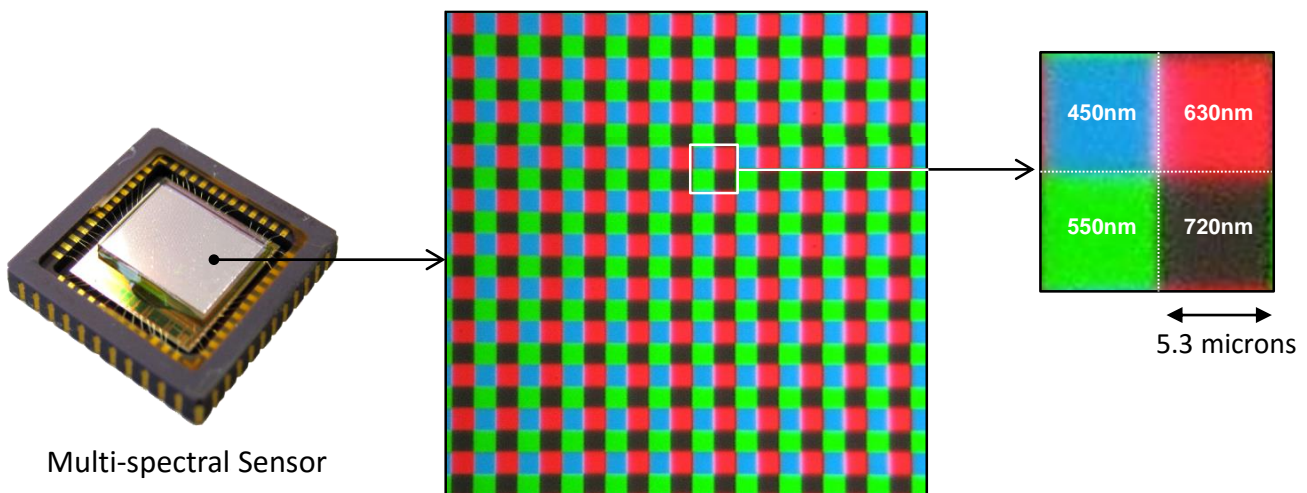
Example 1

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