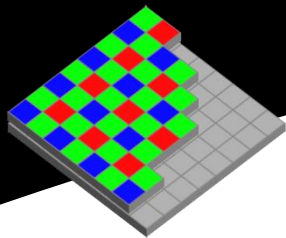
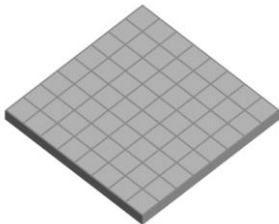


Custom Bayer Matrices

For Multispectral Imaging



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

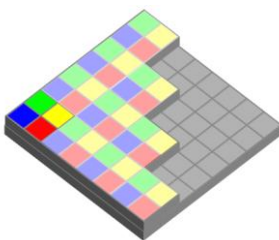



Standard imager
Resolution : $N \times M$

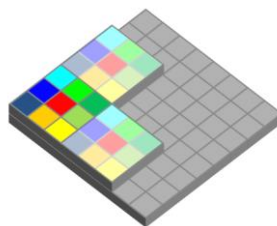
SILIOS Technologies' Custom **COLOR SHADES® MATRIX FILTERS** (pixelated filters) allow to generate 4, 9 or 16 different colored images organized in matrices (for snap shot configuration) or in lines (for push broom configuration).


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

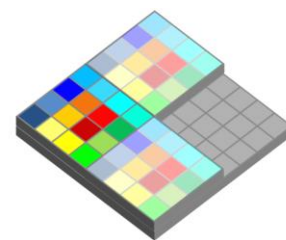
SNAP SHOT




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

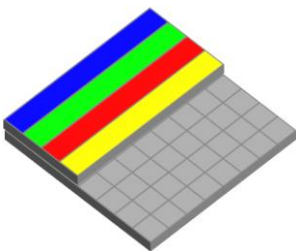


 9 interleaved images
Resolution : $N/3 \times M/3$



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

PUSH BROOM



Ex: 4 interleaved spectral lines
for push broom camera system

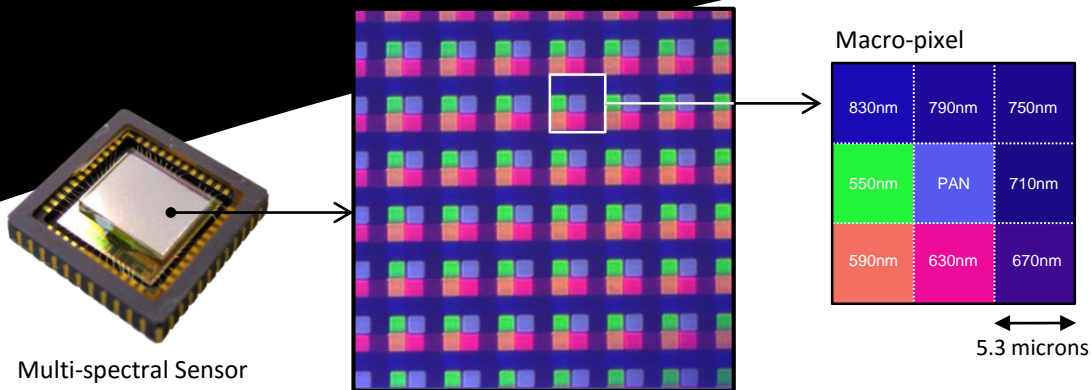


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Email : contact@silios.fr
www.silios.com

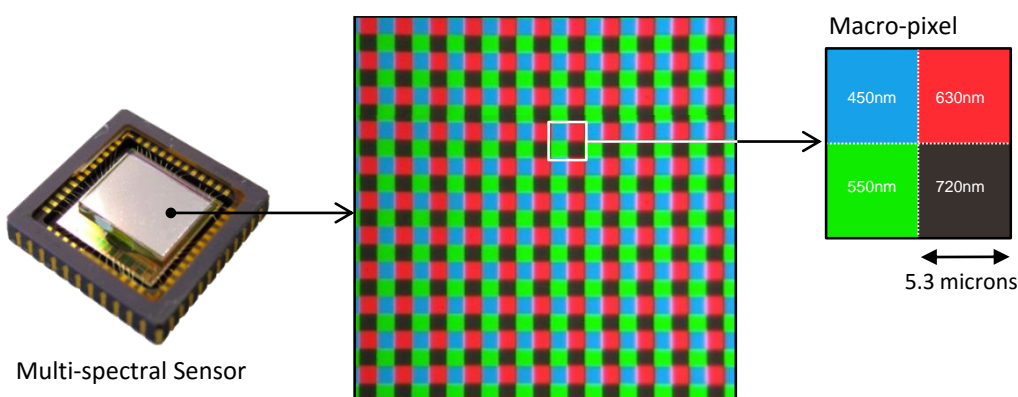
Custom Bayer Matrices

For Multispectral Imaging



Example 1

Spectral characteristics : 8 bands in the range [550-830nm] + 1 panchromatic
 Resolution : 1.3 Mpx (1280x1024)
 Pixel pitch : 5.3 microns



Example 2

Spectral characteristics : 4 bands in the range [450-720nm] (Blue, Green, Red, NIR)
 Resolution : 1.3 Mpx (1280x1024)
 Pixel pitch : 5.3 microns



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