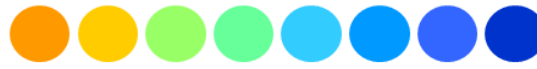


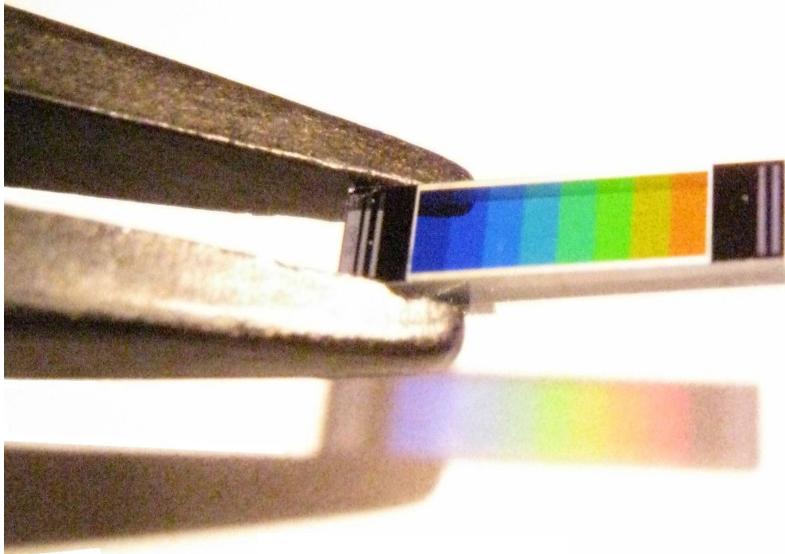
COLOR SHADES



by SILIOS TECHNOLOGIES

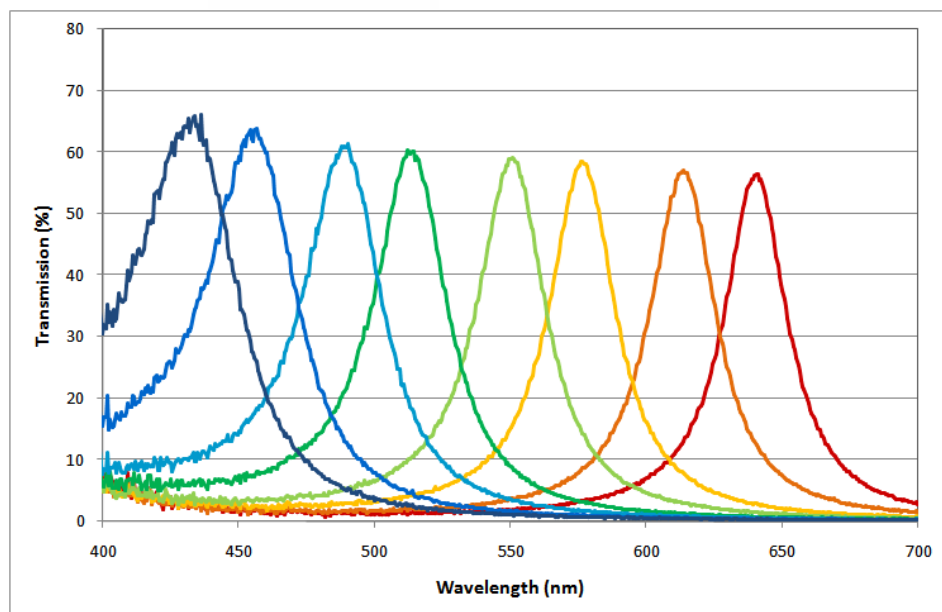
COLOR SHADES VIS-8

Multi band-pass filter for the visible range (8 channels)



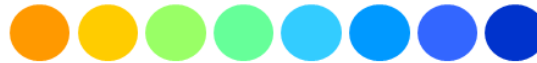
SILIOS Technologies proposes in OEM an off the shelf 8 band pass filter optical chip which fits to 1D CMOS sensor and can replace a simple RGB sensor in a client's colorimeter.

This visible range optical chip technology can be customized to fit any 1D or 2D sensor geometry and allow a customer to develop its own colorimeter or multi-spectral imaging system in the visible range (custom Bayer matrix with 2x2, 3x3 or 4x4 colors and also 1x16 wavelengths). It can be adapted to any application requiring an analysis in the visible range.





COLOR SHADES

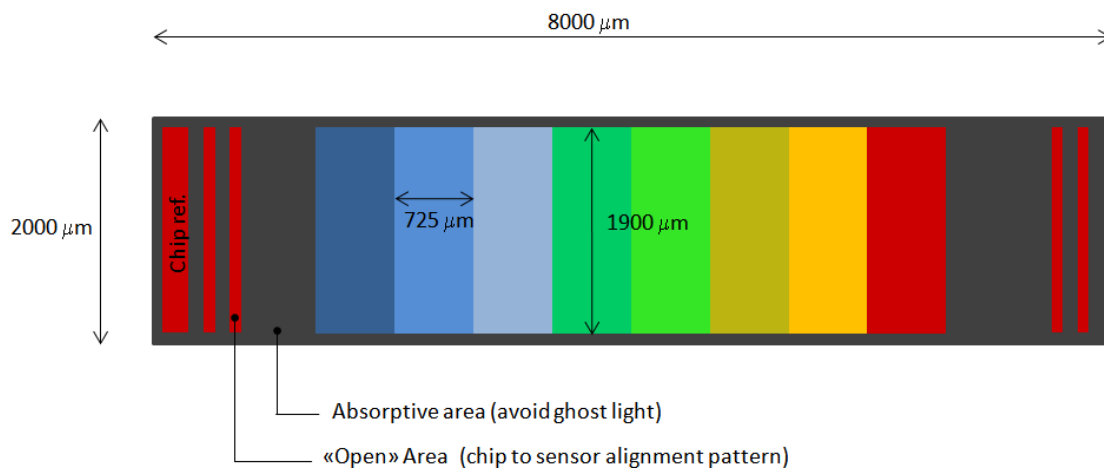


by SILIOS TECHNOLOGIES

Physical specifications	
Size	8x2mm ² +/- 0.05 mm
Thickness	1 mm +/- 0.1 mm

Spectral specifications	
Spectral Range	400 – 700 nm
Number of Channels	8
Channel Bandwidth (FWHM)	25 - 40 nm
Centering accuracy	+/- 5 nm
Transmission	>50%

Geometrical characteristics :



Supply :

Each filter is supplied with a test report indicating for each channel :

- Its centering
- Its transmission
- Its bandwidth (FWHM)

Z.I Peynier-Rousset
Rue Gaston Imbert prolongée
13790 Peynier (France)

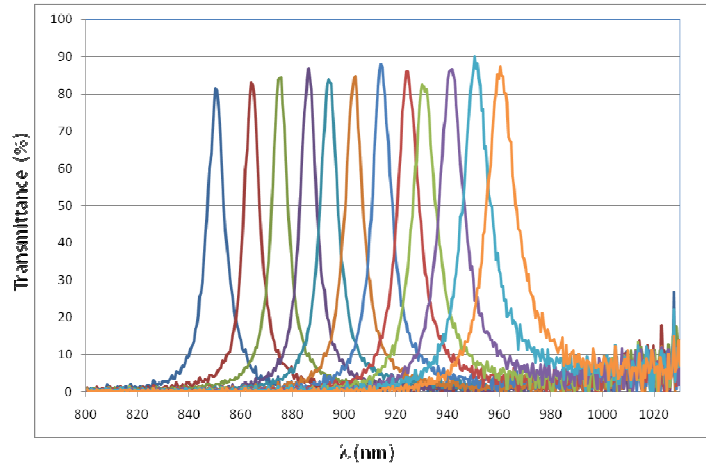
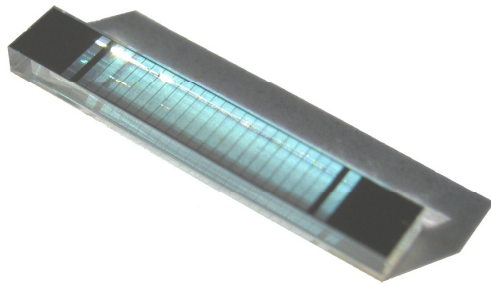
Tel : +33 442 53 89 60
Fax : +33 442 53 89 59

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



COLOR SHADES NIR-25

Multi band pass filter for the Near Infra-Red range



Spectral response of COLOR SHADES NIR-25 filter
(Only 12 bands are displayed for readability)

<i>Physical specifications</i>	
Size	6x1mm ² +/- 0.05 mm
Thickness	1 mm +/- 0.1 mm

<i>Spectral specifications</i>	
Spectral Range	850 – 980 nm
Number of Channels	25
Channel Bandwidth (FWHM)	5 nm
Centering accuracy	+/- 2 nm
Transmission	> 75%

<i>Environmental specifications</i>	
Sensitivity to temperature	0.03 nm/°C
Resistance to temperature	Centering variations of less than 1nm after thermal cycling (100 cycles from -20 to +105°C / transition time: 10s)

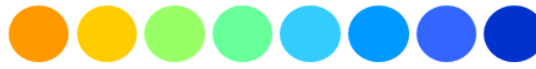
Supply:

Each filter is supplied with a test report indicating for each channel:

- Its centering
- Its transmission
- Its bandwidth (FWHM)



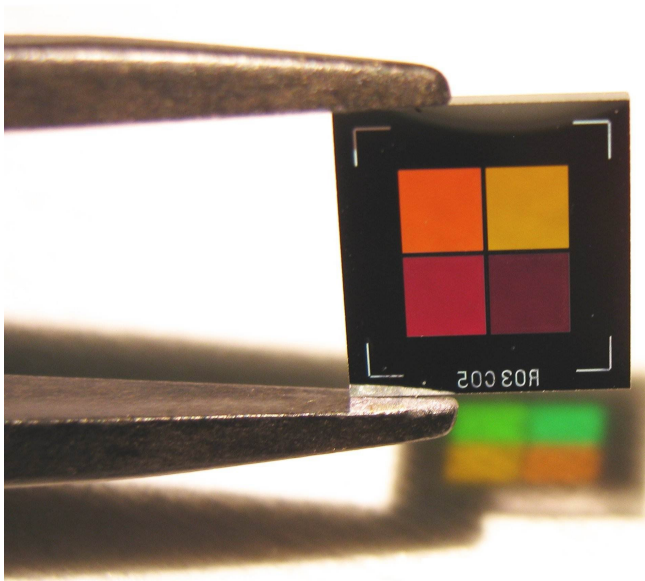
COLOR SHADES



by SILIOS TECHNOLOGIES

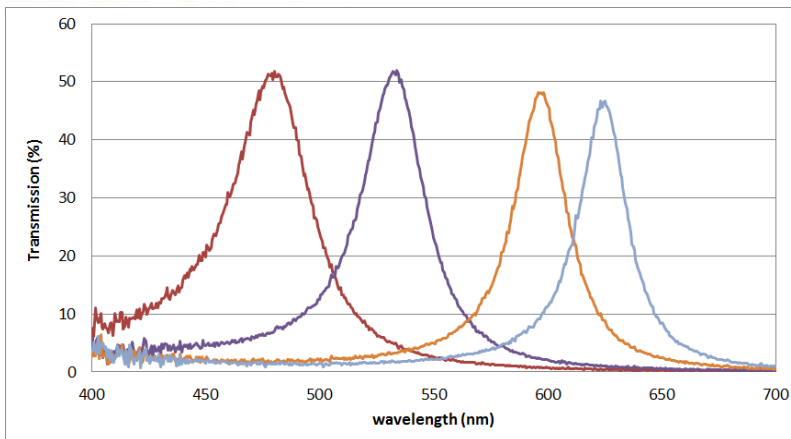
COLOR SHADES VIS-4

Multi band-pass filter for the visible range (4 channels)



SILIOS Technologies proposes in OEM an off the shelf 4 band pass filter optical chip which fits to 1D CMOS sensor and can replace a simple RGB sensor in a client's colorimeter.

This visible range optical chip technology can be customized to fit any 1D or 2D sensor geometry and allow a customer to develop its own colorimeter or multi-spectral imaging system in the visible range (custom Bayer matrix with 2x2, 3x3 or 4x4 colors and also 1x16 wavelengths). It can be adapted to any application requiring an analysis in the visible range.



Example of spectral transmission of a *COLOR SHADES VIS-4* chip.



COLOR SHADES

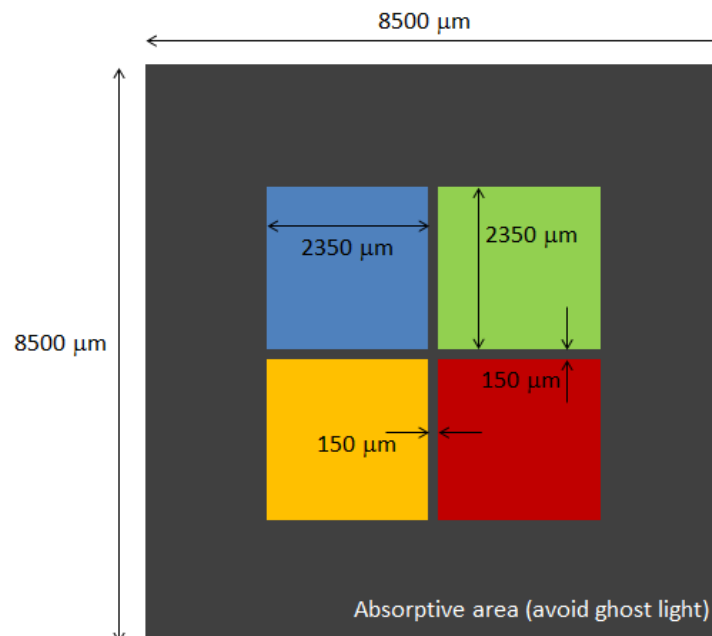


by SILIOS TECHNOLOGIES

Physical specifications	
Size	8.5x8.5mm ² +/- 0.05 mm
Thickness	1 mm +/- 0.1 mm

Spectral specifications	
Spectral Range	400 – 700 nm
Number of Channels	4
Channel Bandwidth (FWHM)	25 - 40 nm
Centering accuracy	+/- 5 nm
Transmission	>40%

Geometrical characteristics :



Supply :

Each filter is supplied with a test report indicating for each channel :

- Its centering
- Its transmission
- Its bandwidth (FWHM)

Z.I Peynier-Rousset
Rue Gaston Imbert prolongée
13790 Peynier (France)

Tel : +33 442 53 89 60
Fax : +33 442 53 89 59

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