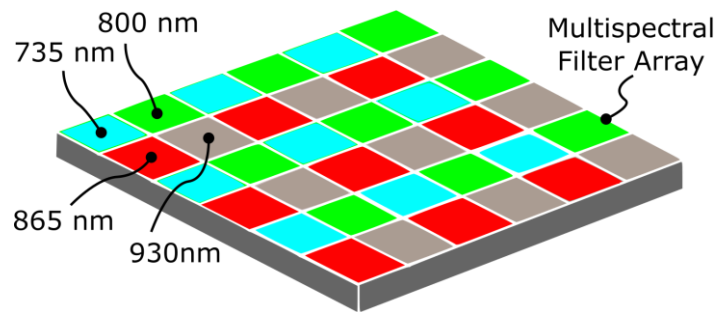


The MSC2 BIO is ultra-compact, ultra-light multispectral camera with a high performance 4MP CMOS sensor modified with Spectral Devices proprietary Anti-X-Talk™ multispectral filter array technology and designed specifically for biomedical applications.

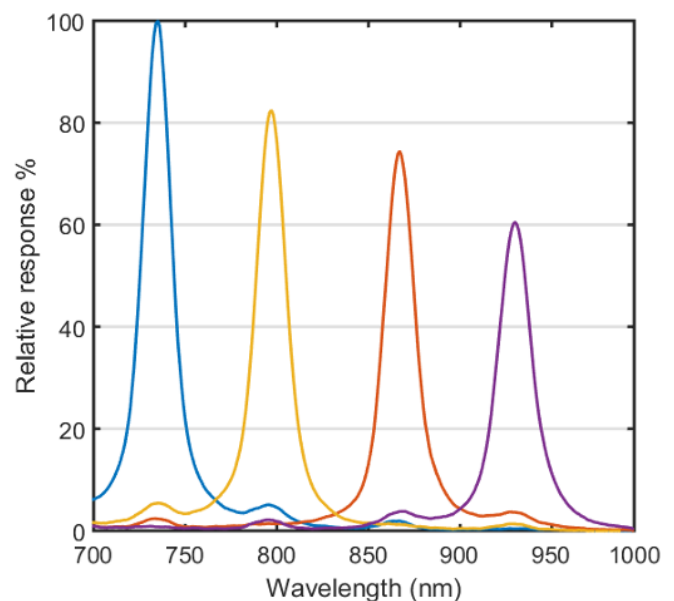
## FEATURES

- Captures co-registered spectral images simultaneously
- 4 bands – 735, 800, 865, 930nm
- Anti-X-Talk™ Technology - enhances contrast and spectral performance
- Sustained frame rates @ 178 FPS
- 4MP Global Shutter CMOS sensor
- USB3 Vision & GenICam Compliant
- Ultra-compact (28 x 28 x 47 mm)
- Ultra-light (< 55g)
- Accommodates c-mount lenses

## SENSOR



## SPECTRAL RESPONSE



# TECHNICAL SPECIFICATIONS

Feature	Description
# of bands	4
Band Locations	735, 800, 865, 930 nm
Spectral Bandwidth	~25 nm
Pixels/band	512 x 512
Sensor Type	CMOS
Sensor Model	AMS CMV4000
Sensor Format	1-inch
Effective pixel size	5.5 x 5.5 $\mu$ m
Shutter Type	Global
Frame Rate	8bits @ 178 fps 10bits @ 90 fps 12bits @ 74 fps
Noise Level (Gain 0 dB)	8bits output: <3 digits 10bits output: <12 digits 12bits output: <48 digits
Exposure Time	22 $\mu$ s to 16.77 s
Lens Compatibility	c-mount
Connectors	USB 3.0, Hirose
System Sync	External trigger (Hardware, Software), Free run

## DIMENSIONS

