Spectral DEVICES INC.

Multispectral Camera
with RGB and NIR

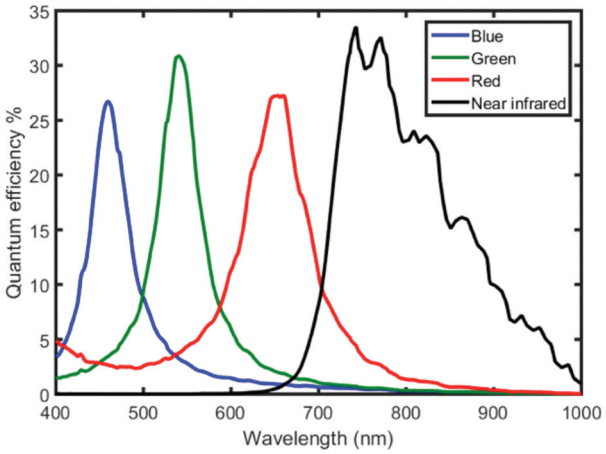
Our line of multispectral cameras are USB3 Vision-compliant offering wide software compatibility. The cameras incorporate high performance CMOS sensors from CMOSIS, which have been modified with our proprietary pixelated filter array technology. With the modified sensors, these cameras simultaneously capture images at 4 distinct bands at the frame rate of the camera. There is no need to add filters, filter wheels, or tunable filters in the optical path. All of the spectral information is captured simultaneously by the modified sensor. Our multispectral camera with RGB and NIR bands has 4 bands of spectral discrimination. The first three bands are sensitive to red, green, and blue, respectively. The fourth band is sensitive to near-infrared light (NIR). The multispectral camera with RGB and NIR bands greatly outperforms competitors products based on dye-based color filter arrays. The level of cross-talk between bands is much lower, especially between the NIR and the color bands. Power is supplied by the USB3 cable simplifying setup. Compact and light, these cameras are well-suited for a variety of applications where color and NIR imaging must be performed simultaneously.

FEATURES:

- Snapshot Camera - Capture all bands simultaneously
- Red, Green, Blue with NIR or Mono option
- High Performance CMOS Sensor
- USB3 Vision compliant
- High Frame Rates
- Small and Lightweight

SPECIFICATIONS:

- Lens Mount: C-mount
- Interface USB3 Vision
- Maximum Bit Depth 12 bit
- Shutter Global Shutter
- Sensor Type CMOS Sensor
- Capture Method Area Snapshot
- Sensor Model CMV4000
- Sensor Format 1 inch
- Sensor Size 4 MP
- Number of Channels 4 bands
- Pixels Per Channel 512 X 512 (pixels x pixels)
- Pixel Size (H X V) 5.5 X 5.5 (µm x µm)
- Maximum QE 65 %
- Dynamic Range 60 dB
- Dark Noise 13 e- (RMS)
- Dark Current 125 e-/s (25 degrees C)
- Power Requirement USB 3.0 interface
- Width 52 mm
- Height 46 mm
- Depth 53 mm



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