

# PixelCam™

## OEM Multispectral Cameras

### Snapshot Multispectral Imaging

PixelCam™ multispectral cameras provide live imaging of 3-9 spectral bands, off-the-shelf or custom, at video rates. Simultaneous multi-channel "snapshot" acquisition delivers rich, real-time data without scene change or pixel shift. Custom dichroic filter arrays are integrated into the focal plane array at wafer-level to create robust linear and area sensors that extract high-contrast spectral information at specific visible and infrared wavelengths. This breakthrough technology enables easy integration into handheld, mobile and aerial cameras – all with the same frame rate, size, weight and power consumption as monochrome cameras.

# Summary

	VIS+NIR	NIR+SWIR
<b>Spectral response</b>	400-1000 nm	700-1700 nm
<b>Resolution</b>	<b>4 MP:</b> 2048 x 2048 px <b>16 MP:</b> 4864 x 3232 px	640 x 512 px
<b>Sensor</b>	Si interline CCD 7.4 µm pixel pitch	InGaAs 25 µm pixel pitch
<b>Spectral bands</b> <i>*Custom spectral bands &amp; mosaics available on request</i>	<b>*6-band:</b> RGB + 3xNIR (740/60 nm, 840/60 nm, 940/60 nm) <b>*9-band:</b> VIS + NIR (410, 450, 530, 575, 610, 650, 720, 790, 850 nm)	<b>*4-band:</b> 900/400 nm, 1200/100 nm, 1400/100 nm, 1650/100 nm
<b>Active area</b>	<b>4 MP:</b> 15.15 mm (H) x 15.15 mm (V), 21.43 mm (diagonal) <b>16 MP:</b> 36.0 mm (H) x 23.9 mm (V), 43.2 mm (diagonal)	16.0 mm (H) x 12.8 mm (V), 20.5 mm (diagonal)
<b>Frame rate overclocked</b>	<b>4 MP:</b> 15 fps at full resolution <b>16 MP:</b> 16 fps at full resolution	30 fps
<b>Optical interface</b>	<b>4 MP:</b> C mount <b>16 MP:</b> F mount	Ni-42
<b>Digital output</b>	<b>4 MP:</b> GigE Vision® <b>16 MP:</b> Camera Link®	Camera Link®, 14 bit
<b>Dimensions (no lens or mount)</b>	<b>4 MP:</b> 52.5 mm (H) x 52.5 mm (W) x 79.4 mm (D) <b>16 MP:</b> 91 mm (H) x 91 mm (W) x 104 mm (D)	52.1 mm (H) x 52.1 mm (W) x 64.7 mm (D) 2.1" (H) x 2.1" (W) x 2.6" (D)
<b>Weight</b>	<b>4 MP:</b> 377 g <b>16 MP:</b> 414 g	235 g (0.52 lb.)

# Benefits

- Simultaneous multi-band imaging
- Custom VIS-NIR-SWIR spectral bands
- Portable size, weight and power consumption
- Robust, high reliability, scalable production

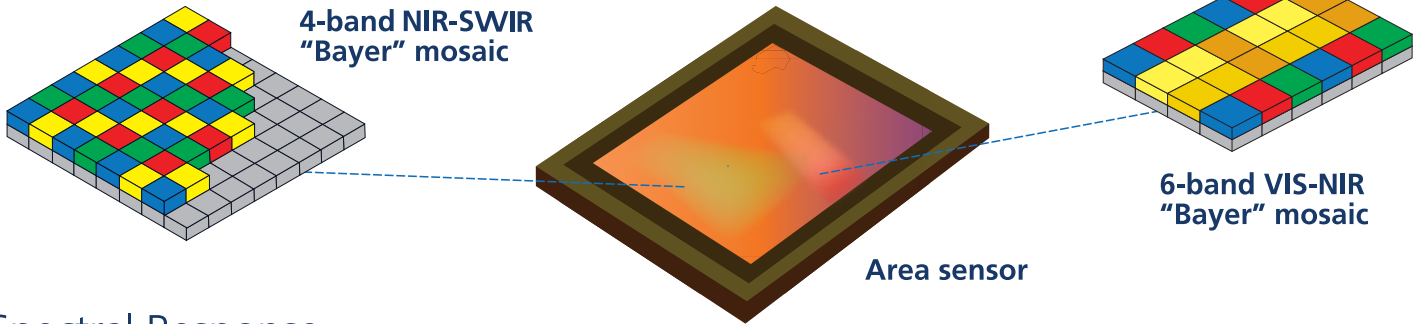
# OEM Customization

- Application-specific spectral bands
- Custom pixel-scale mosaic patterning
- Sensor, camera and housing options
- Mechanical and environmental requirements
- Proof-of-concept prototypes to high-volume production

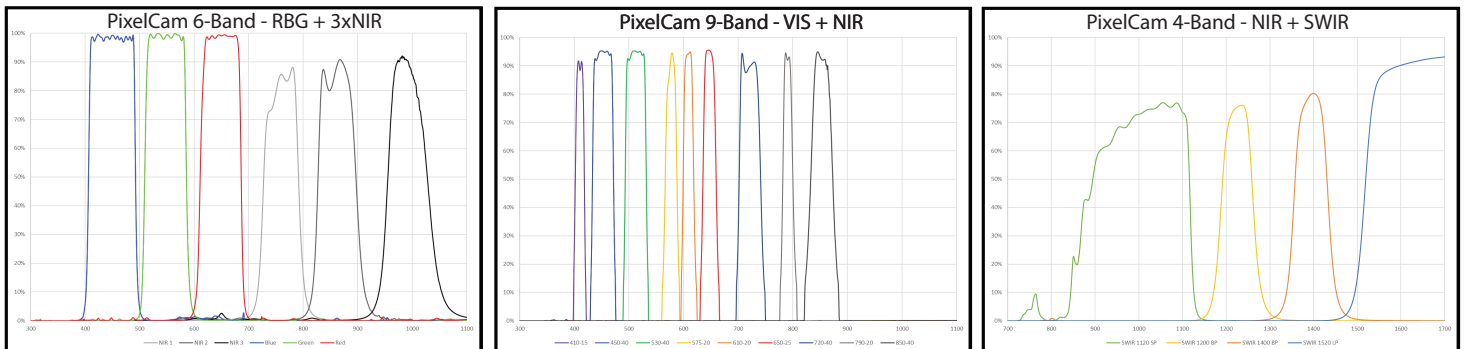
# Applications

- Aerial mapping
- Biomedical imaging
- Machine vision
- Product screening
- Remote sensing
- Surveillance and authentication
- Unmanned systems

# Dichroic Filter Array



# Spectral Response



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