PixelCam™ Multispectral Cameras



PixelCam™ multispectral cameras offer live imaging of 3-9 spectral bands at video rates. Simultaneous multi-channel snapshot acquisition delivers rich, realtime data without scene change or pixel shift. Custom dichroic filter arrays are integrated into the focal plane array to create robust sensors that extract highcontrast spectral information at specific wavelengths.

Benefits

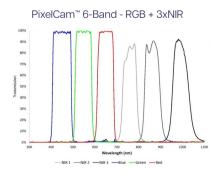
- Custom VIS-NIR-SWIR Spectral Bands
- Portable Size, Weight, and Power Consumption
- Robust, High Reliability, and Scalable Production
- Simultaneous Multi-band Imaging

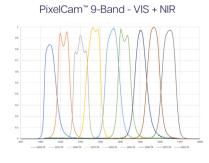
OEM Customisation

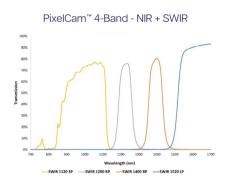
- Application-specific Spectral Bands
- Custom Pixel-scale Mosaic Patterning
- Sensor, Camera, and Housing Options
- Mechanical and Environmental Requirements
- Proof-of-concept Prototypes to Highvolume Production

	04MCP400 (4 Band RGB+NIR) + 06MCP400 (6 Band RGB+3xNIR)	09MCP1000 (9 Band SWIR)
Spectral Response	400-1000nm	1000-1700nm
Resolution	2072 x 2072px	1280 x 1280px
Sensor	Si Interline CCD 7.4 um pitch	InGaAs Area CMOS 5.0µm Pixel Pitch
Spectral Bands	4 Band: RGB + NIR 450/100, 550/100, 650/100, 750LP 6 Band: RGB + 3xNIR 450/100, 550/100, 650/100, 740/60, 840/60, 940/60	9 Band: SWIR 1050/70, 1125/70, 1200/70, 1275/70, 1350/70, 1425/70, 1500/70, 1575/70, 1650/70
Active Area	15.2mm (H) x 15.2mm (V), 21.4mm (Diagonal)	6.40mm (H) x 5.12mm (W)
Frame Rate Overclocked	15 fps at full resolution	> 90 fps at full resolution
Optical Interface	F Mount	C Mount
Digital Output	GigE Vision	GigE Vision
Dimensions (no lens or mount)	60mm (H) x 60mm (W) x 70.8 (D)	50mm (H) x 50mm (W) x 42.5 (D)
Weight	389g	139g

Spectral Response







Europe, UK, Asia & RoW: info@knightoptical.co.uk | +44 1622 859 444 USA & Canada: usasales@knightoptical.com | +1 401-583-7846









