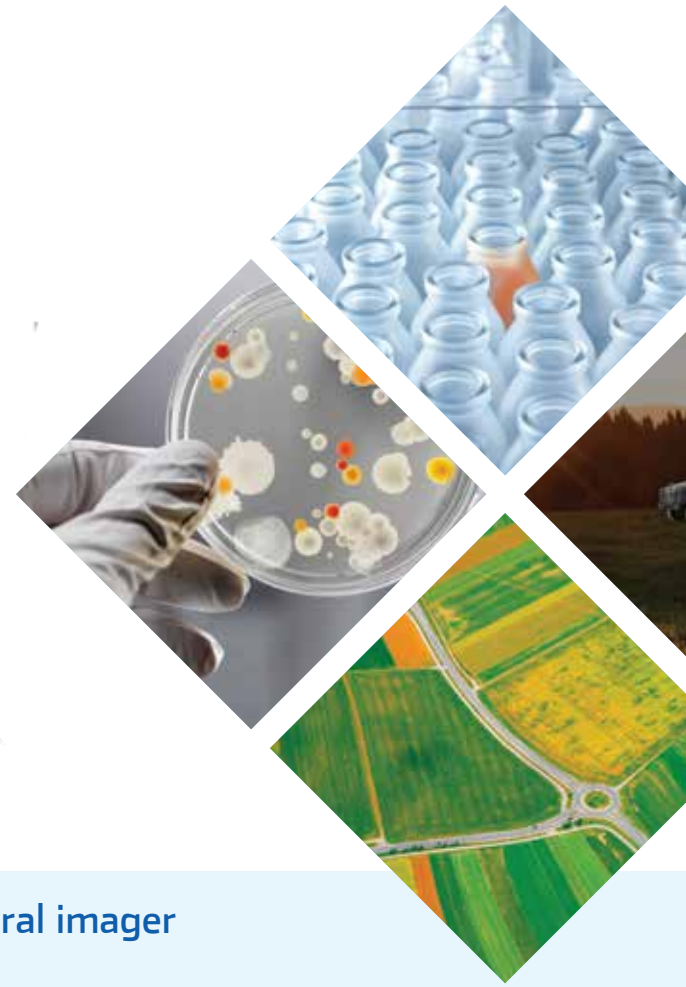
SpectroCam™

Multispectral Camera | SWIR

PIXELTEQ

micro-patterned filters | sensors | cameras



Sequential 6-band multispectral imager

500 - 1700nm

SpectroCam Short Wave InfraRed (SWIR) multispectral cameras deliver sequential full-frame images for up to 6 spectral bands between 500 – 1700nm at rates up to 30 frames per second (~5 stacks per second). Using standard and custom interchangeable filters, SpectroCam images the spectral bands fit to your specific applications. These cameras incorporate a high-sensitivity solid state InGaAs sensor, available in SWIR (1000 – 1700nm) and VIS-SWIR (500 - 1700nm) versions with resolution up to 640 x 512 pixels. SpectroCam multispectral cameras are flexible platforms that simplify development and shorten design time. The SpectroCam SWIR camera is configurable to support a variety of wavelength ranges (SWIR, NIR-SWIR, VIS-SWIR), lenses (F-mount standard), and image formats. Also available in customized OEM modules for easy integration into handheld spectral devices and instruments.

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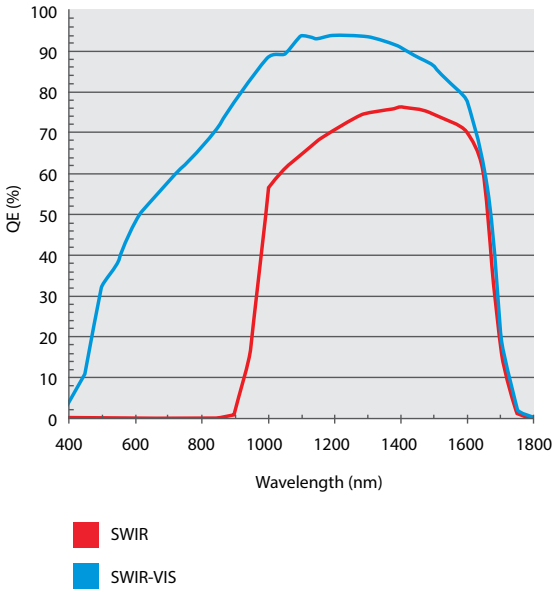
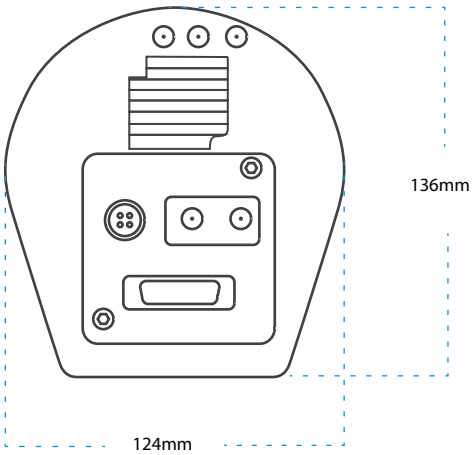
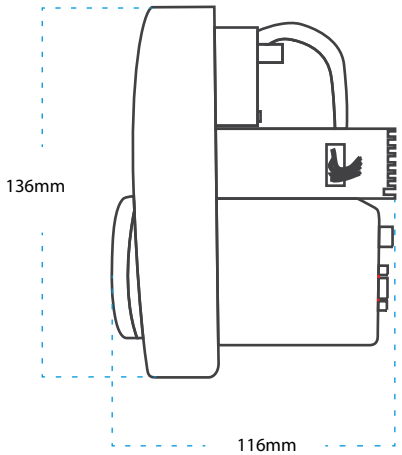
Spectral response



Dimensions





Specifications

Spectral response	VIS-SWIR 500 - 1700nm *(640 x 512 px)*	VIS-SWIR 500 - 1700nm *(320 x 256 px)*	SWIR 1000 - 1700nm *(320 x 256 px)*
Sensor	Solid State InGaAs 15µm pixel pitch	Solid State InGaAs 30µm pixel pitch	Solid State InGaAs 30µm pixel pitch
Active area	9.6 x 7.68mm		
Frame rate	up to 30 Hz		
Optical interface	F mount standard; range of lenses available *(adapters available on request)*		
Digital output	CameraLink, 14 bit		
Image enhancement	Automated gain control (AGC) Non Uniformity Correction (NUC): 3-point (offset, gain & dark current) Pixel correction		
Trigger interface	trigger IN and OUT - TTL compatible		
Dimensions	136mm H x 124mm W x 116mm D "(5.4" H x 4.9" W x 4.6" D)"		
Operating Temp.	-20°C to +55°C (-4°F to +131°F)		

Benefits

- Sequential 6-band multispectral imaging
- Broad VIS, NIR, SWIR imaging with single camera
- Up to 30 frames/second acquisition for persistent video
- Flexibility of interchangeable standard & custom filters
- 14-bit CameraLink output supports high speed digital video
- On-board AGC & NUC delivers quality images in day & night lighting

Applications

- Aerial & remote sensing
- Authentication & surveillance
- Biomedical imaging & instrumentation
- Low-light obscured vision enhancement
- Semiconductor & solar panel inspection

OEM Custom Options

- Application-specific spectral bands
- Sensor / camera / housing options
- Mechanical & environmental requirements
- Proof of concept prototypes to high volume

Contact an Application Engineer to discuss your specific application.

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