



PIKA SWIR HYPERSPECTRAL CAMERA



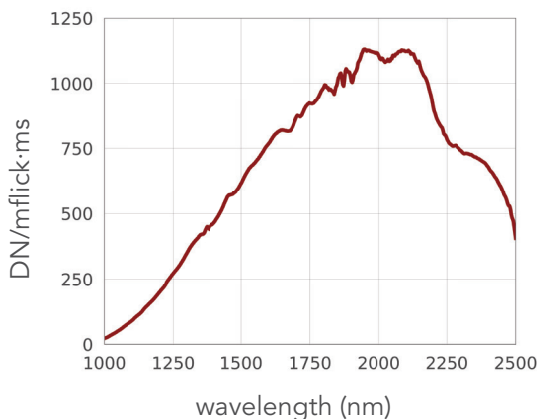
The Pika SWIR is a hyperspectral camera for the Short-Wave Infrared (SWIR) spectral range (1000 – 2500 nm), enabling a wide range of applications, including mineral exploration, pharmaceutical inspection, soil characterization, and waste recycling.

The Pika SWIR can be used with our **laboratory**, **outdoor**, and **airborne** hyperspectral imaging systems.

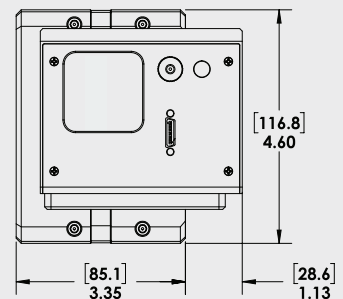
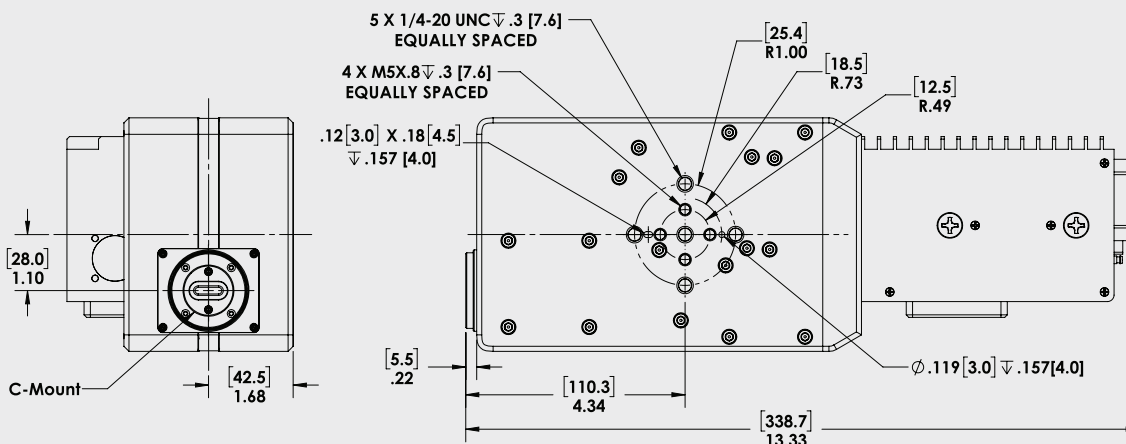
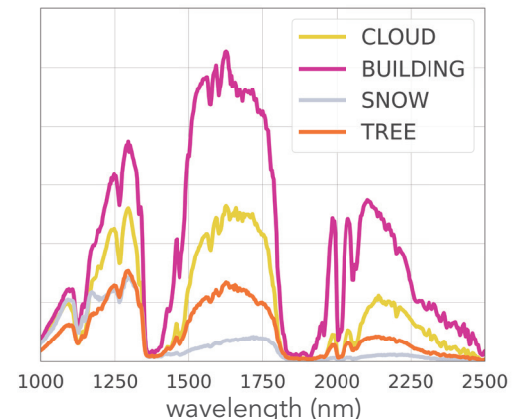
FEATURES

- Spectral Range: 1000 – 2500 nm
- 640 Spatial Pixels Per Line
- 245 Spectral Channels Per Line
- 7.7 nm Spectral Resolution (FWHM)

SPECTRAL RESPONSE



ACTUAL DATA



PIKA SWIR SPECIFICATIONS

OPTICAL

Spectral Range	1000 - 2500 nm
Spectral Bands	245
Spatial Channels	640
Spectral Resolution (FWHM)	7.7 nm
Field of View Options	22°, 33°, 62°, 77°
f/# (at default objective lens aperture)	1.8
Pixel Size	15 µm
Slit Width	30 µm
Spectral Sampling per Pixel	3.06 nm
Spectrometer Magnification	1.08

DATA

Maximum Frame Rate	120 fps
Bit Depth	16
Spectral Binning: default / all options	2 / 2-10
Spatial Binning: default / all options	1 / 1-10
Pixel Well Depth	1.85 Me-
Peak SNR (with default binning, higher with more binning)	1,825
Software Development Kit	Not Currently

PHYSICAL / ENVIRONMENTAL

Dimensions	338.7 x 116.8 x 113.7 mm
Weight (without objective lens)	3.98 kg
Objective Lens Mount	C-mount
Data Interface	USB 3.0 (via frame grabber)
Power Interface	12 V supply
Sensor Type	Cryogenically-Cooled MCT
Sensor Cooling	Linear Stirling (MTTF >20K hrs)
Power Consumption	4.0 W
Operating Temperature (non-condensing)	-50 to +70 C
Recommended Temperature (non-condensing)	-20 to +50 C