RESCNON

PIKA IR-L HYPERSPECTRAL CAMERA

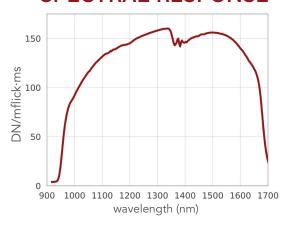


The Pika IR-L is a line-scan hyperspectral camera that covers the near-infrared spectral range (925 – 1700 nm). The Pika IR-L is a high-speed, light-weight infrared imager, ideal for remote sensing applications. It can be used with any of Resonon's benchtop, outdoor, and airborne systems, standalone with our software development kit, and integrated into machine vision systems.

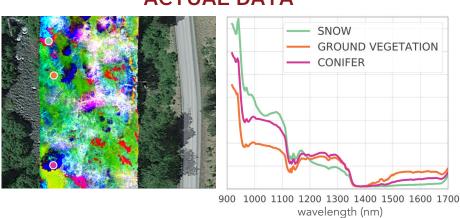
FEATURES

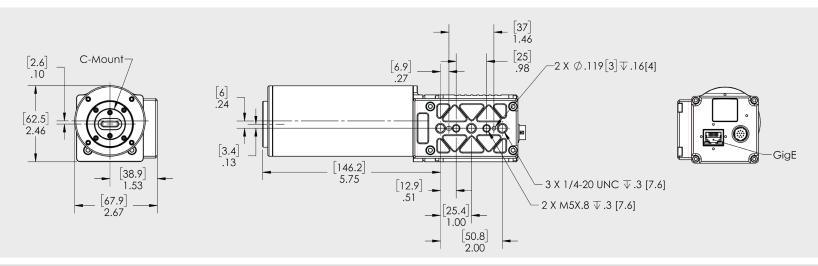
- Spectral Range: 925 1700 nm
- 320 Spatial Pixels Per Line
- 236 Spectral Channels Per Line
- High Speed (364 fps max.)

SPECTRAL RESPONSE



ACTUAL DATA







PIKA IR-L SPECIFICATIONS

Spectral Range 925 - 1700 nm Spectral Channels ^[1] 236 Spectral Bandwidth 3.3 nm Spectral Resolution (FWHM) 5.9 nm Dispersion per Pixel 3.3 nm Spatial Pixels per Line 320 f/# 1.8 Dimensions 210 x 68 x 63 mm Weight (without Lens) 1.01 kg Power Requirements 10.8 V to 30.0 V Max Frame Rate 364 fps Interface GigE
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Max Frame Rate 364 fps
Interface GiaE
19-
Bit Depth 14
Pixel Size 30 µm
Peak SNR ^[2] 1581
Binning spectral and spatial available
Pixel Well Depth 2.5 Me-
Slit Width 30 µm
Spectrometer Magnification 1.0
Sensor Type InGaAs
Sensor Cooling TEC
Operating Temperature (non-condensing) $-20 + 50 C$
Recommended Temperature (non-condensing) $+5 + 0 + 40 C$
Objective Lens Mount CS-mount
Objective Lens Field-Of-View Options 5°, 7°, 11°, 22°, 77°
Software Development Kit Windows, C++

^[1] This is the number of spectral channels spanning 925 – 1700 nm. The total number of spectral channels delivered by the Pika IR-L is 240, with bands extending beyond both edges of the Spectral Range.

 $[\]hbox{\footnote{\footnote{1.5}{10}} This value obtained at minimum binning. SNR can be increased with spectral and spatial binning.}$