PIKA XC2 HYPERSPECTRAL CAMERA

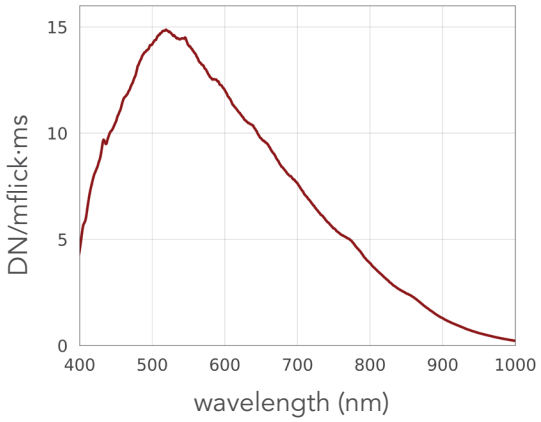
The Pika XC2 is a high spatial and spectral resolution hyperspectral camera for the Visible and Near-Infrared (VNIR) spectral range (400 – 1000 nm). The excellent imaging and high spectral resolution make it ideal for laboratory applications.

The Pika XC2 can be used in our airborne, laboratory, and outdoor hyperspectral systems, as well as standalone or integrated into your system with our programming guidance document.

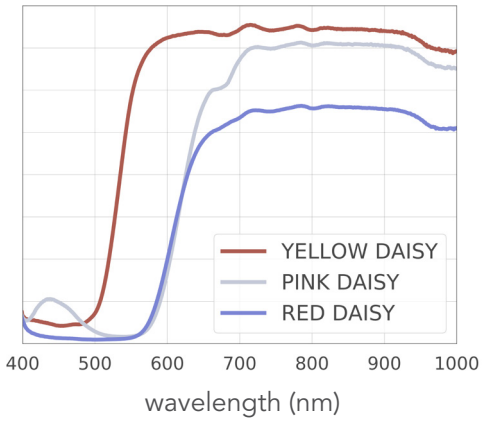
FEATURES

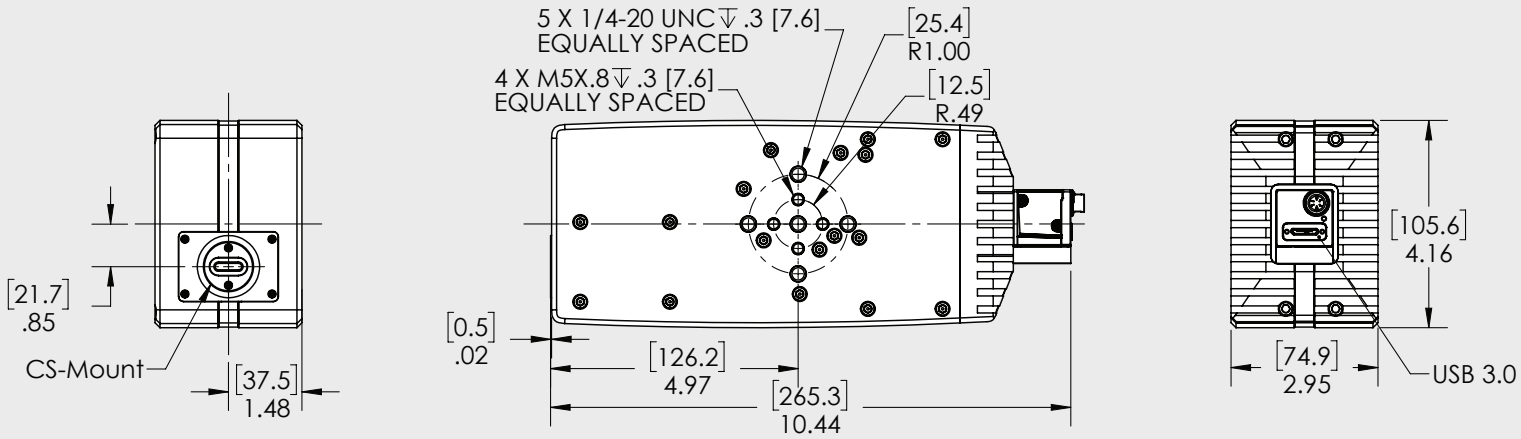
- Spectral Range: 400 – 1000 nm
- 1600 Spatial Pixels Per Line
- 447 Spectral Channels Per Line
- High Performance (1.9 nm FWHM spectral resolution)

SPECTRAL RESPONSE



ACTUAL DATA





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PIKA XC2 SPECIFICATIONS

OPTICAL

Spectral Range	400 - 1000 nm
Spectral Bands	447
Spatial Channels	1600
Spectral Resolution (FWHM)	1.9 nm
Field of View Options	8°, 11°, 21°, 23°, 31°, 43°, 61°
f/# (at default objective lens aperture)	2.4
Pixel Size	5.86 µm
Slit Width	12 µm
Spectral Sampling per Pixel	0.67 nm
Spectrometer Magnification	1.00

DATA

Maximum Frame Rate	165 fps
Bit Depth	12
Spectral Binning: default / all options	2 / 2-10
Spatial Binning: default / all options	1 / 1-10
Pixel Well Depth	32.7 ke-
Peak SNR (with default binning, higher with more binning)	255
Software Development Kit	Yes

PHYSICAL / ENVIRONMENTAL

Dimensions	265 x 106 x 75 mm
Weight (without objective lens)	2.51 kg
Objective Lens Mount	C-mount
Data and Power Interface	USB 3.0
Sensor Type	CMOS
Sensor Cooling	Passive
Power Consumption	3.4 W (via USB)
Operating Temperature (non-condensing)	0 to +50 C
Recommended Temperature (non-condensing)	+5 to +40 C

Spectronon hyperspectral data analysis software and
sample data are available for free at downloads.resonon.com.