

# RESONON

## PIKA XC2 HYPERSPECTRAL CAMERA

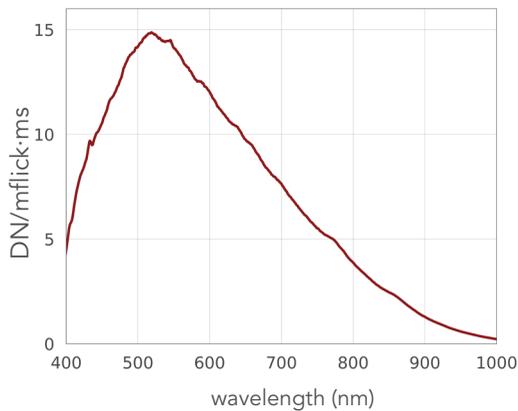


The Pika XC2 is a line-scan hyperspectral camera that covers the visible and near-infrared spectral range (400 – 1000 nm). The Pika XC2 has high spatial resolution and best in-class spectral resolution, providing excellent imaging quality. It can be used with any of Resonon’s benchtop, outdoor, and airborne systems, standalone with our software development kit, and integrated into machine vision systems.

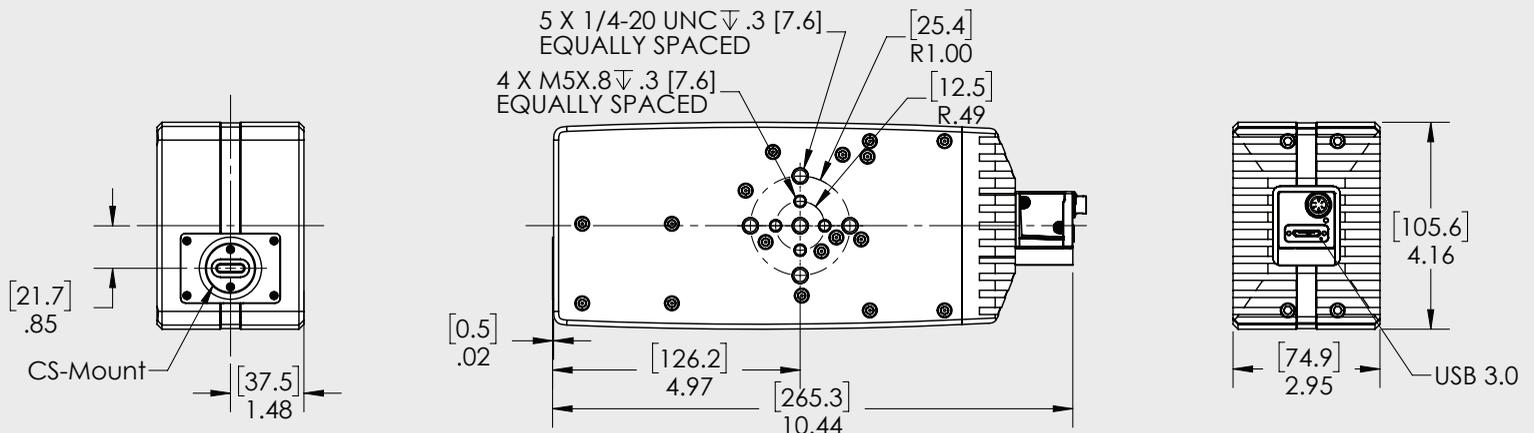
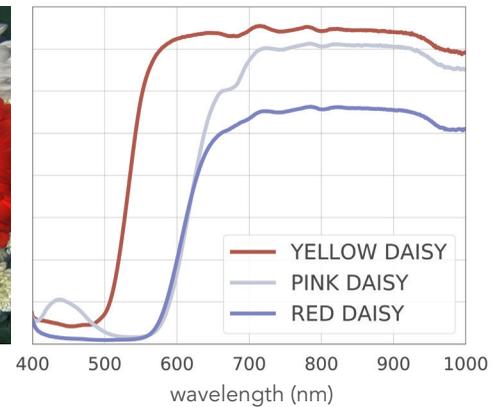
### FEATURES

- Spectral Range: 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



## PIKA XC2 SPECIFICATIONS

<b>Spectral Range</b>	400 - 1000 nm
<b>Spectral Channels<sup>[1]</sup></b>	447
<b>Spectral Bandwidth</b>	1.3 nm
<b>Spectral Resolution (FWHM)</b>	1.9 nm
<b>Dispersion per Pixel</b>	0.67 nm
<b>Spatial Pixels per Line</b>	1600
<b>f/#</b>	2.4
<b>Dimensions</b>	265 x 106 x 75 mm
<b>Weight (without Lens)</b>	2.51 kg
<b>Power Requirements</b>	3.4 W via USB
<b>Max Frame Rate</b>	165 fps
<b>Interface</b>	USB 3.0
<b>Bit Depth</b>	12
<b>Pixel Size</b>	5.86 $\mu$ m
<b>Peak SNR<sup>[2]</sup></b>	255
<b>Binning</b>	spectral and spatial available
<b>Pixel Well Depth</b>	32.7 ke-
<b>Slit Width</b>	12 $\mu$ m
<b>Spectrometer Magnification</b>	1.00
<b>Sensor Type</b>	CMOS
<b>Sensor Cooling</b>	passive
<b>Operating Temperature (non-condensing)</b>	0 to +50 C
<b>Recommended Temperature (non-condensing)</b>	+5 to +40 C
<b>Objective Lens Mount</b>	CS-mount
<b>Objective Lens Field-Of-View Options</b>	8°, 11°, 23°, 31°, 43°, 61°, 76°
<b>Software Development Kit</b>	Windows, C++

[1] This is the number of spectral channels spanning 400 – 1000 nm. The total number of spectral channels delivered by the Pika XC2 is 462, with bands extending beyond both edges of the Spectral Range.

[2] This value obtained at minimum binning. SNR can be increased with spectral and spatial binning.

Sample data and hyperspectral analysis software are available for free download at [downloads.resonon.com](https://downloads.resonon.com). Resonon provides a programming guidance document for integrating our imagers using readily available SDKs.