

## Hyperspectral Imaging Cameras

Lightweight, compact, affordable hyperspectral cameras for benchtop, field, industrial, and airborne applications.

**Resonon provides the industry's most affordable and complete hyperspectral imaging solutions.**



### **Pika NUV** (350 – 800 nm)

Near-ultraviolet hyperspectral imager. High spatial resolution. Includes custom high-performance objective lens optimized for ultraviolet imaging.



### **Pika II** (400 – 900 nm)

Our most popular and most affordable hyperspectral imaging camera.



### **Pika XC** (400 – 1000 nm)

High-performance hyperspectral imager. High spatial resolution, covers a larger spectral range than the **Pika II**, enhanced response at blue wavelengths, and excellent temperature stability. Compatible with any 2/3" C-mount camera.



### **Pika NIR** (900 – 1700 nm)

Hyperspectral imaging camera covering the near infrared wavelengths.



### **Pika NIR-f** (900 – 1700 nm)

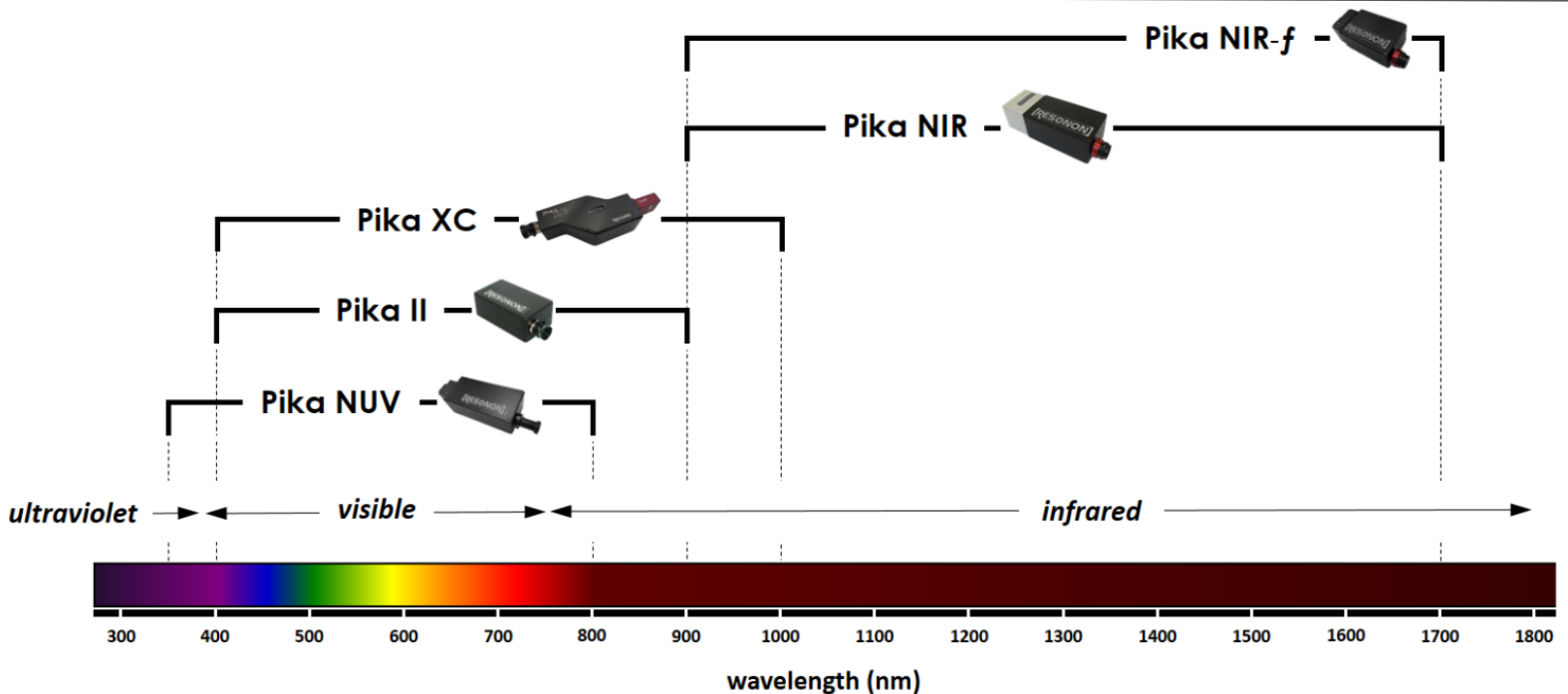
High-framerate, low-cost, low-resolution hyperspectral imaging camera covering the near infrared wavelengths.

## Imager Specifications

	Pika NUV	Pika II	Pika XC	Pika NIR	Pika NIR-f
<b>Spectral Range (nm)</b>	350 – 800	400 – 900	400 – 1000	900 – 1700	900 – 1700
<b>Spectral Resolution (nm) *</b>	2.5	2.1	2.5	5.5	12.5
<b>Spectral Channels</b>	184	240	240	145	64
<b>Spatial Channels</b>	1600	640	1600	320	64
<b>Max Frame Rate (fps)</b>	67	145	242	100	1,000
<b>Bit Depth</b>	12	12	14	14	16
<b>Weight (lb / kg)</b>	4.7, 2.1	2.8, 1.3	4.1, 1.9	10.4, 4.7	5.8, 2.7
<b>Dimensions (cm)</b>	10.0 x 26.4 x 7.3	9.7 x 16.8 x 6.4	12.4 x 23.9 x 8.4	11.9 x 30.5 x 8.9	12.3 x 22.0 x 7.9
<b>Connection Type</b>	GigE, CameraLink	GigE	GigE	USB	CameraLink
<b>Temperature Range (°F / C)</b>	32-113, 0-45	46-90, 8-32	32-113, 0-45	32-122, 0-50	32-122, 0-50
<b>f/#</b>	2.4	3.0	2.4	1.8	1.8
<b>Avg. RMS Spot Radius (μm)</b>	8	7	6	10	10
<b>Smile (peak-to-peak) (μm)</b>	4	5	2	10	10
<b>Keystone (peak-to-peak) (μm)</b>	6	7	6	10	10

\* The number of spectral channels equals the spectral range divided by the spectral resolution. The number of independent spectral channels is NOT the same as the number of sensor pixels in the spectral direction.

Multiple objective lens options are available. See our website at [www.resonon.com/imagers\\_lenses.html](http://www.resonon.com/imagers_lenses.html) for more information.



**SpectrononPro** is Resonon's user-friendly data acquisition and analysis software. **SpectrononPro** controls the hyperspectral imaging system, contains useful tools for hyperspectral data analysis, supports user-written plugins, and provides numerous output options. A free version of **SpectrononPro** and sample datacubes are available for download at [www.downloads.resonon.com](http://www.downloads.resonon.com).

Resonon also provides a **C++ API** for customers wishing to integrate our hyperspectral imaging cameras into their own system. This **API** is available free to customers upon request.