

# RESONON

## HYPERSPECTRAL IMAGING SYSTEMS

Complete systems for laboratory and outdoor applications.



Resonon's hyperspectral imaging systems are fully-integrated, plug-and-play solutions, with all hardware and software necessary to acquire and analyze hyperspectral data.

### **BENCHTOP SYSTEM**

For laboratory use

#### **System components:**

- ◆ Hyperspectral Imaging Camera
- ◆ Data Acquisition Computer & Software
- ◆ Linear Translation Stage
- ◆ Mounting Tower
- ◆ High-Intensity Illumination
- ◆ Calibration Target

### **OUTDOOR FIELD SYSTEM**

Tripod-mounted scanning system

#### **System components:**

- ◆ Hyperspectral Imaging Camera
- ◆ Rotational Scanning Stage & Tripod
- ◆ Ruggedized Laptop & Data Acquisition Software
- ◆ Radiometric Calibration
- ◆ Calibration Target
- ◆ Power Supply
- ◆ Protective Travel Case

Multiple options are available for each configuration. Please contact us to discuss your requirements.

## HYPERSPECTRAL CAMERA OPTIONS

	<b>Pika XC2</b>	<b>Pika L</b>	<b>Pika NIR-640</b>	<b>Pika NIR-320</b>	<b>Pika NUV2</b>
<b>Spectral Range (nm)</b>	400 – 1000	400 – 1000	900-1700	900 – 1700	330 – 800
<b>Spectral Channels</b>	447	281	328	164	253
<b>Spectral Bandwidth (nm)</b>	1.3	2.1	2.5	4.9	1.9
<b>Spectral Resolution – FWHM (nm)</b>	1.9	3.3	5.6	8.8	2.8
<b>Spatial Pixels</b>	1600	900	640	320	1500
<b>Maximum Frame Rate (fps)</b>	165	249	249	520	142

## Stage & Lighting Configurations

### REFLECTANCE CONFIGURATION



The linear stage holds the sample and translates across the field of view. Used for small samples that are easy to move.

### TRANSMISSION CONFIGURATION



Backlighting with a clear stage platform. Often used to scan biological samples.

### COMBINED REFLECTANCE/ TRANSMISSION CONFIGURATION



Clear stage platform with top lighting and backlighting. Can measure both reflectance and transmission.

### REFLECTANCE OF LARGE SAMPLES

The imager and lighting assembly are mounted directly to a long translation stage which can be mounted horizontally or vertically. Used to scan larger objects.



Custom configurations available, contact us for details.

Sample data and hyperspectral analysis software are available for free download at [www.downloads.resonon.com](http://www.downloads.resonon.com).