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.

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HYPERSPECTRAL CAMERA OPTIONS

	Pika XC2	Pika L	Pika NIR-640	Pika NIR-320
Spectral Range (nm)	400 – 1000	400 – 1000	900-1700	900 – 1700
Spectral Channels	447	281	328	164
Spectral Sampling (nm)	1.3	2.1	2.5	4.9
Spectral Resolution – FWHM (nm)	2.3	3.7	5.3	9.7
Spatial Pixels	1600	900	640	320
Maximum Frame Rate (fps)	165	249	249	520

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

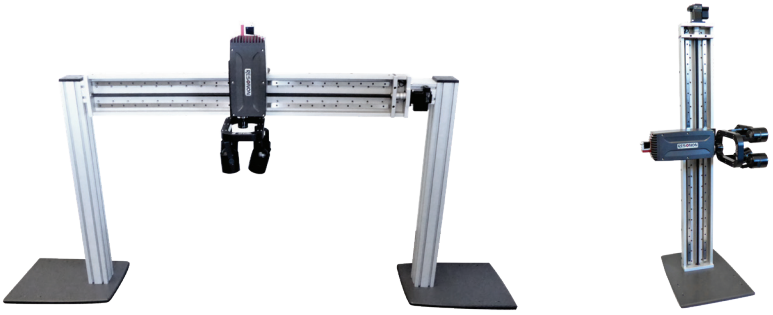
Backlighting with a clear stage platform. Often used to scan biological samples.

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.