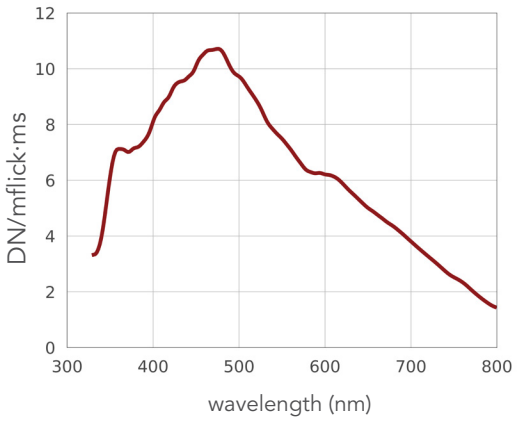
PIKA UV HYPERSPECTRAL CAMERA

The Pika UV (formerly Pika NUV2) is a line-scan hyperspectral camera that covers the near ultraviolet and visible spectral range (330 – 800 nm). The Pika UV is the only ultraviolet + visible hyperspectral camera commercially available. It can be used with Resonon's Reflectance benchtop system, outdoor, and airborne systems, standalone with our software development kit, and integrated into machine vision systems.

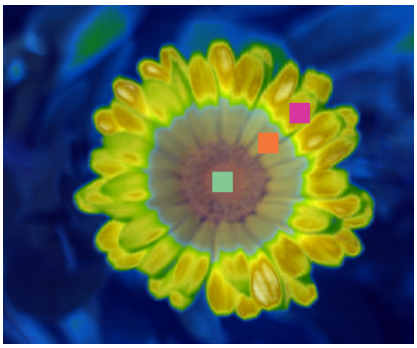
FEATURES

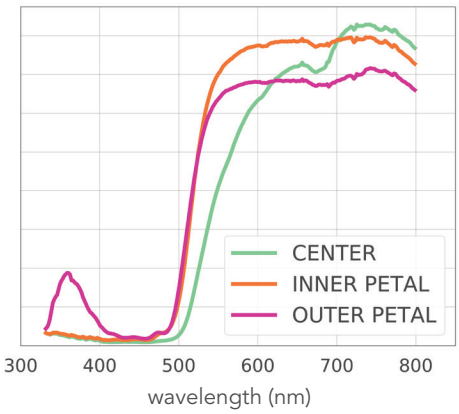
- Spectral Range: 330 – 800 nm
- 1500 Spatial Pixels Per Line
- 255 Spectral Channels Per Line
- Unique Ultraviolet Imaging

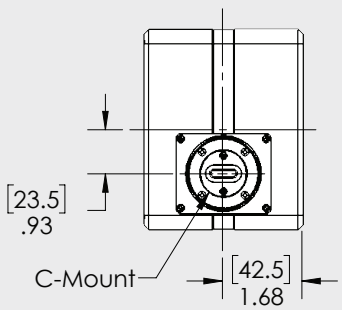
SPECTRAL RESPONSE

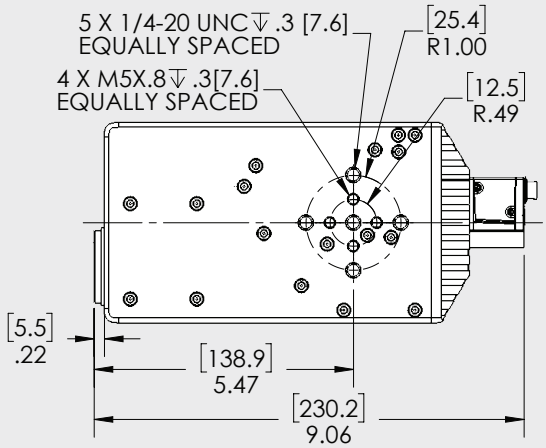


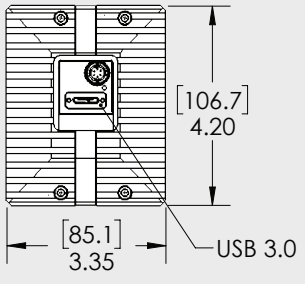
ACTUAL DATA











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PIKA UV SPECIFICATIONS

Spectral Range	330 - 800 nm
Spectral Channels[1]	255
Spectral Bandwidth	1.8 nm
Spectral Resolution (FWHM)	2.8 nm
Dispersion per Pixel	0.46 nm
Spatial Pixels per Line	1500
f/#	2.8
Dimensions	230 x 107 x 85 mm
Weight (without Lens)	2.27 kg
Power Requirements	3.4 W via USB
Max Frame Rate	142 fps
Interface	USB 3.0
Bit Depth	12
Pixel Size	5.86 µm
Peak SNR[2]	361
Binning	spectral and spatial available
Pixel Well Depth	32.7 ke-
Slit Width	24 µm
Spectrometer Magnification	0.92
Sensor Type	CMOS
Sensor Cooling	passive
Operating Temperature (non-condensing)	0 to +50 C
Recommended Temperature (non-condensing)	+5 to +40 C
Objective Lens Mount	CS-mount
Objective Lens Field-Of-View Options	8°, 21°
Software Development Kit	Windows, C++

[1] This is the number of spectral channels spanning 330 – 800 nm. The total number of spectral channels delivered by the Pika UV is 270, 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.

Resonon provides a programming guidance document for integrating our imagers using readily available SDKs.