PIKA L-F HYPERSPECTRAL CAMERA

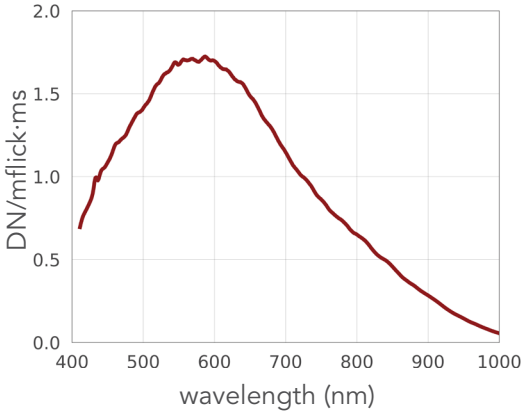
The Pika L-F is a high-speed hyperspectral camera for the Visible and Near-Infrared (VNIR) spectral range (420 – 980 nm), making it ideal for machine vision applications.

The Pika L-F works well with Resonon's RVS (Real-time Vision System), as well as standalone or integrated into your system with our programming guidance document.

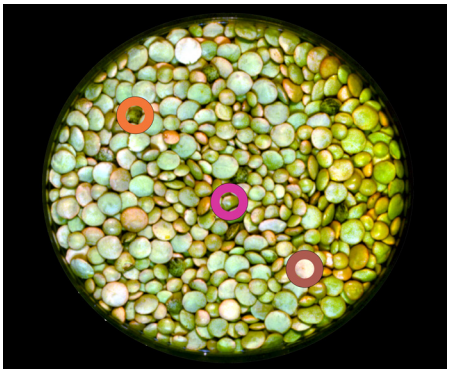
FEATURES

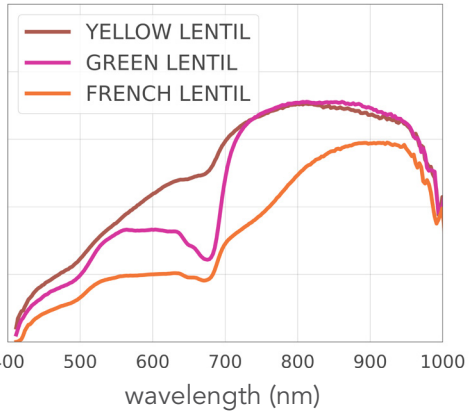
- Spectral Range: 420 – 980 nm
- Maximum Frame Rate: 585 Frames Per Second
- 720 Spatial Pixels Per Line
- 224 Spectral Channels Per Line

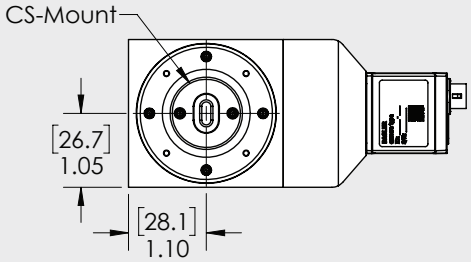
SPECTRAL RESPONSE

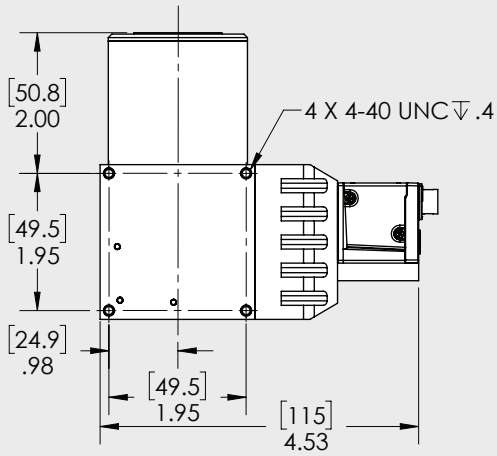


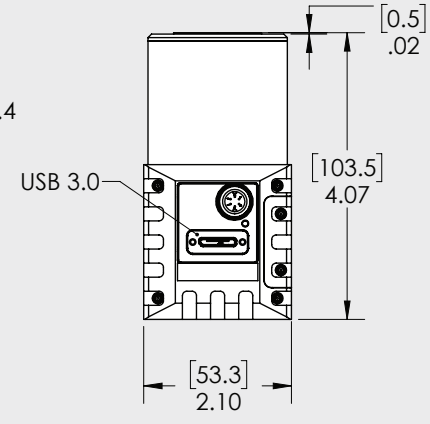
ACTUAL DATA











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PIKA L SPECIFICATIONS

OPTICAL

Spectral Range	420 - 980 nm
Spectral Bands	224
Spatial Channels	720
Spectral Resolution (FWHM)	3.1 nm
Field of View Options	4°, 6°, 11°, 12°, 17°, 23°, 34°, 45°
f/# (at default objective lens aperture)	2.8
Pixel Size	6.9 µm
Slit Width	15 µm
Spectral Sampling per Pixel	1.25 nm
Spectrometer Magnification	0.91

DATA

Maximum Frame Rate	585 fps (at 8-bit)
Bit Depth	8 or 12
Spectral Binning: default / all options	2 / 2-10
Spatial Binning: default / all options	1 / 1-10
Pixel Well Depth	20.7 ke-
Peak SNR (with default binning, higher with more binning)	203
Software Development Kit	Yes

PHYSICAL / ENVIRONMENTAL

Dimensions	115 x 104 x 66 mm
Weight	0.64 kg
Objective Lens Mount	C-mount
Data and Power Interface	USB 3.0
Sensor Type	CMOS
Sensor Cooling	Passive
Power Consumption	3.4 W (via USB)
Operating Temperature (non-condensing)	0 to +50 C
Recommended Temperature (non-condensing)	+5 to +40 C

Spectronon hyperspectral data analysis software and
sample data are available for free at downloads.resonon.com.