Living Optics

Product Brief: USBC Camera kit
Bringing Spectral information to Computer Vision

Spectral imaging at video speeds

Image with more information and speed than previously possible.

Enhanced Computer Vision

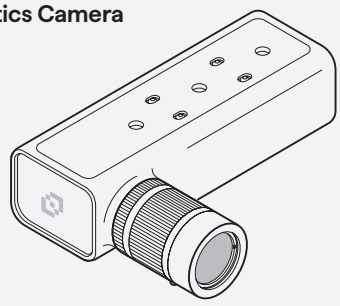
Leverage the combination of an RGB imaging sensor with hyperspectral data capture to enhance computer vision workflows.

Developer ready

Familiar software tools for computer vision engineers to exploit spectral information in their applications.

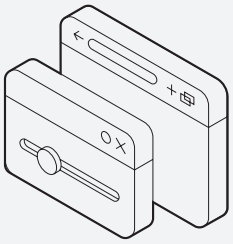
Follow the QR code for more information:

Living Optics Camera



RGB Imaging and VIS-NIR spectral sampling at video speeds.

Software Development Kit

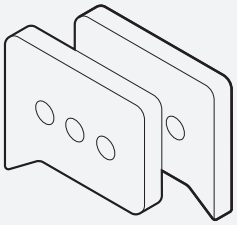


Python API, examples and tutorials.

Living Optics Camera Tool

Record and explore using hyperspectral data.

Support



Technical email support and knowledgebase access.

Living Optics Camera
USB-C

Learn more about the product on our website

livingoptics.com/product

Specifications

Feature	Value	Notes
Camera		
Spatial samples	5.1M pixels	RGB Sensor
Field of view (FOV)	4°-21°	12-60mm manual zoom lens
Spectral samples	4384	Sparse sampling points across 5M pixel sensor
Wavelength range	440-900nm	VIS-NIR bandwidth
Wavelength bands	96	For each spectral sample
Wavelength FWHM	8-27nm	Wavelength dependent
Bit depth	12 bit	Raw sensor pixel data
Frame rate	17 fps	Max data capture rate
Size	203mm × 76mm × 58mm	Camera excluding lens
Weight	< 1kg	Camera excluding lens
Interface	USB-C 3.2 Gen 1 (5Gbps)	Combined data and power
Living Optics Camera Tool		
Camera Tool GUI	Camera control, data acquisition and processing	Control the Camera directly from your laptop or workstation
User Manual	Access to a local copy of documents	
Offline Use	Install and use without an internet connection	
Software Development Kit (SDK)		
Python & C API	Application programmers interface	
Examples	Examples and tutorials	
Compatibility		
Computer hardware	8-core 3.6GHz CPU, 16GB RAM, 1TB Storage	Minimum specs
Linux	Ubuntu LTS 22.04, 24.04 & 26.04	
Planned compatibility	Windows 11, MacOS Tahoe and later	-

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About Living Optics

Living Optics is revolutionising machine vision by making hyperspectral imaging widely accessible. Its full-stack product – combining pioneering cameras with advanced software – captures rich spectral data far beyond the reach of human vision or conventional imaging systems. This empowers AI-enhanced insights across a wide range of real-world applications, including food, healthcare, security, academia, and industry.