

Product Brief: 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.



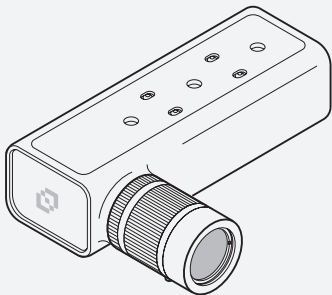
Developer ready

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

Follow the QR code for more information:

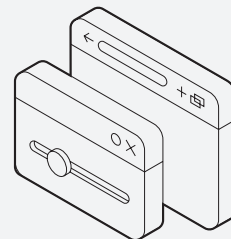


Camera



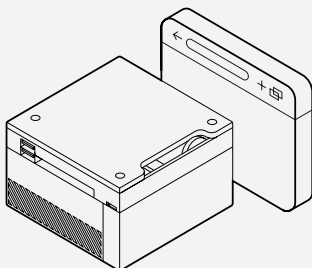
RGB Imaging and VIS-NIR spectral sampling at video speeds.

Software Development Kit



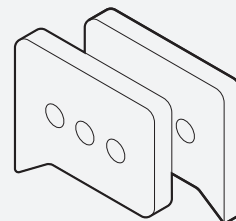
Python API, examples and tutorials.

Compute platform drivers



Drivers, dashboards and setup packages ready to self-install

Support



Technical email support and knowledgebase access.

Compatibility

Compatible with
NVIDIA Jetson AGX Orin 64GB
developer kit (not included)

Requirements:

- NVIDIA Jetson AGX Orin developer kit 64GB with Jetpack 5*
- NVMe drive (recommended 2TB or higher)

Purchase directly
at our online shop



shop.livingoptics.com

* Living Optics Camera kit currently supports only Jetpack 5 software stacks. Jetpack 6 compatibility available upon request.

Specifications

Feature	Value	Notes
Camera		
Spatial samples	5M pixels	RGB imaging sensor
Field of view (FOV)	4° to 21°	12-60mm manual zoom lens
Spectral samples	4384	Sparse sampling points across 5M pixels
Wavelength range	440-900nm	VIS-NIR bandwidth
Wavelength bands	96	For each spectral sample
Wavelength FWHM	8-20nm	Wavelength dependent
Bit depth	12 bit	Raw sensor pixel data
Frame rate	30 fps	Max data capture rate
Size	203mm x 76mm x 58mm	Camera excluding lens
Weight	< 1kg	Camera excluding lens
Interface	Dual FAKRA coaxial RF and 5m cables	Combined data and power
Compute Platform Drivers		
Custom kernel package	Includes driver for Living Optics Camera	Fully compatible with Nvidia Jetpack 5 software stacks
Compute Setup package	Creates the environment to get the most from the Living Optics Camera	-
Telemetry package	Unlock remote monitoring of Camera telemetry	-
Dashboard Package	Web interface for controlling the Camera remotely (including offline)	-
Local Documentation Package	Have a copy of the latest documentation for offline use	-
Software Development Kit (SDK)		
Python API	Python - Application programmers interface	
Examples	Python code examples to get going quickly	
Tutorials	Tutorials to make full use of the SDK	

About Living Optics

Living Optics is revolutionising machine vision by making hyperspectral imaging widely accessible. Our 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.