

PRO-PIX POP!



WHY
PRO-PIX?



SMART SENSING

Get actionable measurements and embedded decision-making.



VERSATILITY & FLEXIBILITY

PRO-PIX is hardware reconfigurable, allowing you to easily replace components and accessories to adapt the camera to different environments.



PERMANENT ASSISTANCE

From camera configuration to analysing and interpretation of the data, we help you make the most of your hyperspectral data and your sensors.

CONTACT US
TODAY



Looking for a high-performance, robust and flexible hyperspectral camera?

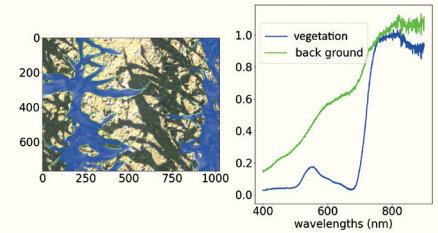
Contact us today to find out more about our product and how it can help you achieve your goals.

Tél. 07 83 41 41 36
contact@photonics-open-projects.com
www.photonics-open-projects.com

1 SOLUTION

NEXT-GENERATION SPECTRAL ROBOTIC VISION FOR PROFESSIONALS

PRO-PIX is the **cutting-edge solution for professionals**. Featuring **compressive sensing technology**, this camera offers hardware and software reconfigurability for a wide range of applications in the visible/near infrared (VIS/NIR) and infrared (SWIR) spectral ranges.



3 ASSETS

COMPRESSIVE SENSING TECHNOLOGY

- Unmatched performance
- High flexibility
- Suitable for harsh environment (IP65)

GREAT MODULARITY

- Choosing the right spectral range to suit your application
- Implementation of your own detection and spectral analysis algorithms
- Adaptability to different measurement environments

HIGH EFFICIENCY HYPERSPECTRAL IMAGING

- Unprecedented precision, speed and resolution
- Adaptation to a broad range of needs
- Reduced carbon emissions from equipment and measurement

+ FLEX' OPEN INNOVATION

Embark on open innovation with ONE-PIX by purchasing our affordable spectral imaging kit. Develop your own methods and transfer your results to a high-performance PRO-PIX sensor.



SPEC. PRO-PIX

CAMERA SPECIFICATIONS

TYPE	SPECIFICATIONS	PRO-PIX VIS/NIR	PRO-PIX SWIR
OPTICAL	Typical spectral range (nm)*	400 - 1000	900 - 1700
	Typical spectral resolution (nm)*	0.5	
	Spectral SNR	*	*
	Optical connector	SMA905	
VIDEO	Typical working distance (m)**	1.5 - Infinity	
	Triggers	Hardware et software trigger	
	Sensor diagonal (inch)	0,45	
	FOV	25°	
	Focus	Adjustable	
	Spatial resolution	1080 pixels	
	Max. measurement rate**	< 4 Hz	
ELECTRONICS	Connector	GigE	
	Power supply	xVolt battery or POE	
	control software	GUI / python SDK / ROS	
MECHANICS AND ENVIRONMENT	Dimensions LxWxD (mm)	125 x 90 x 90	
	Weight***	< 700 g	
	Lens mount	SM1	
	Mechanical mounting****	M8 two pins	
	Protection index	IP 65	
	Temperature range	0 - 40°C	

- * These specifications depend on the selected spectrometer
- ** Depends on the selected imaging method
- *** Does not take into account the weight of the remote optical module
- **** Can be adapted for tripod-type threading with adaptor piece

OPERATING PRINCIPLE

