pco.®

PCO® SWIR Cameras

Precision Imaging Beyond the Visible

pco.pixelfly™ 1.3 SWIR USB

pco.edge 1.3 SWIR CLHS

excelitas®

From Compact Integration to Low-Noise Performance

PCO SWIR cameras provide high-performance imaging solutions for scientific and industrial applications. Featuring advanced InGaAs sensor technology, they enable visualization beyond the visible spectrum for a wide range of inspection, measurement, and analysis tasks.

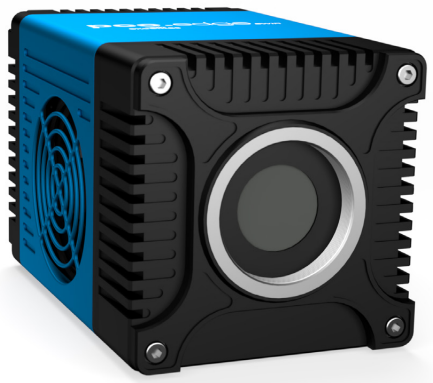
pco.pixelfly 1.3 SWIR USB — Compact SWIR Imaging with USB connectivity

The pco.pixelfly 1.3 SWIR USB combines compact dimensions with a lightweight design for seamless integration into laboratory and industrial setups. Its USB interface enables simple installation and operation.

KEY FEATURES	
Sensor Resolution	1.3 MPixel (1280 × 1024 pixels)
Pixel Size	5.0 µm × 5.0 µm
Frame Rate	Up to 130 fps at full resolution
Spectral Range	350 nm - 1700 nm
Quantum Efficiency	Peak QE 90 % (@ 1200 nm)
Dark Current	6000 e^-/pixel/s (@ +20 °C sensor temp.)
Readout Noise	230 e^- (rms)

pco.edge 1.3 SWIR CLHS — Low-Noise InGaAs Imaging

The pco.edge 1.3 SWIR CLHS combines remarkably low readout noise and efficient CLHS data transfer. Its image quality supports applications that require the detection of weak signals and subtle image details.



KEY FEATURES	
Sensor Resolution	1.3 MPixel (1280 × 1024 pixels)
Pixel Size	10.0 µm × 10.0 µm
Frame Rate	Up to 148 fps at full resolution
Spectral Range	300 nm - 1700 nm
Quantum Efficiency	Peak QE 73 % (@ 1250 nm)
Dark Current	245 e^-/pixel/s (@ -20 °C sensor temp.)
Readout Noise	25 e^- (rms)

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