

PROMICAM PRO 3-5MP

5 MP Monochrome USB 3 CMOS Camera
with Large Field of View,
Suitable for Fluorescence



High Image Quality and Large Field of View

5 MP monochrome sensor with 2/3" diagonal provides high image quality and large field of view.

Global Shutter

The sensor uses global shutter, which enables observation of fast-moving objects without image distortion.

High Live View Frame Rates Suitable for "Live Imaging" Applications

Modern USB 3 interface provides high live view frame rates, while CPU load remains low. Live view in full 5 MP resolution can be displayed with frame rate up to 38 fps, in Full HD (1920 × 1080 - using ROI feature) live view can be displayed with frame rate up to 90 fps.

High Sensitivity, High Dynamic Range and Low Noise Level

The used SONY® Pregius® CMOS sensor brings very low noise level, high dynamic range and high sensitivity, which is about twice as high as the color version of this camera. These parameters make the camera suitable for low-light applications like fluorescence.

Support in QuickPHOTO Programs

QuickPHOTO programs for digital photomicrography provide full control of camera features, e.g.: live view display, manual and automatic exposure, gain, gamma, hue, shading correction, measurements in a live view and many more.

PROMICAM PRO 3-5MP is also supported by the following extension SW modules for QuickPHOTO:

- **Deep Focus** EDF module
- Live stitching using **Image Stitching** module
- Automated HDR image acquisition using **HDR** module
- Real-time video recording using **RECORD IT** module

Main Features:

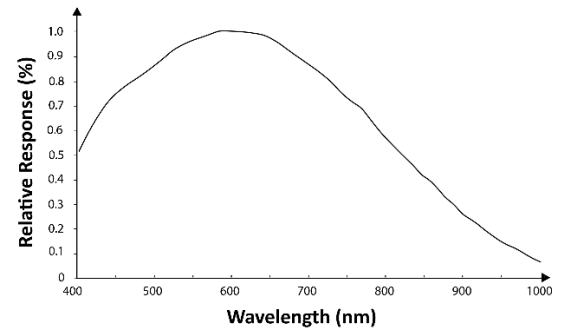
- 2/3" SONY® Pregius® CMOS monochrome sensor
- 5 MP sensor resolution
- High image quality
- Large field of view
- Exposure time up to 4 s
- Global shutter
- High sensitivity, high dynamic range, low noise level
- Live view frame rate up to 38 fps in full 5 MP resolution
- USB 3 Gen 1 interface
- Screw lock USB connector
- Supported by QuickPHOTO programs

Suitable for Applications:

- Fluorescence
- DIC
- Phase contrast
- Biology / Live Cell Imaging
- Cytology
- Embryo observation
- Sperm analysis

Sensor Specifications	
Sensor Type	Sony® Pregius CMOS, global shutter, monochrome
Sensor Size	2/3" (8.45 × 7.07 mm)
Sensor Aspect Ratio	6:5
Pixel Size	3.45 × 3.45 μm
Resolution	2448 × 2048 pixels (5 MP)
Supported Software	
Software	QuickPHOTO in version 3.2 or higher (not included)
Camera Specification (when used with QuickPHOTO programs)	
Image Resolution	2448 × 2048, 2448 × 1376, 1920 × 1080 (Full HD), 1216 × 1024 pixels
Live View Resolution@Max. Frame Rate (fps)	2448 × 2048 @38 fps 2448 × 1376 (16:9 - ROI) @56 fps 1920 × 1080 (Full-HD -ROI) @90 fps 1216 × 1024 (subsampling) @149 fps
Lower Resolutions	Subsampling, ROI
Exposure Times	1/40000 s (25 μs) – 4 s
Gain	1 – 251×
Exposure Mode	Automatic, automatic-interactive, fluorescence (SFL Auto), manual
Camera Characteristics	
Interface	USB 3 Gen 1
USB connector	USB 3 Micro-B screw lock
Mount	C-mount/ CS-mount
Dimensions (W × D × H)	43 × 29 × 29 mm (1.7 × 1.14 × 1.14 in)
Weight	65 g
Tripod Mount	1/4" – 20
Recommended Microscope Coupler	0.63× or 1× C-mount
Compliances	CE certified, RoHS, WEEE, FCC
Included in the Box	PROMICAM PRO 3-5MP camera, 3 m USB 3 cable with Micro-B lock screw connector
Minimal System Requirements	
Processor	Intel® Core™ i3 / AMD RYZEN™ 3
RAM	2 GB
USB port	1× USB 3 port
Operating System	Microsoft® Windows® 7/8/8.1/10/11 (32bit or 64bit)
Recommended Computer Configuration	
Processor	Intel® Core™ i5 / AMD RYZEN™ 5 or better
RAM	8 GB or more
USB port	1× USB 3 port
Operating System	Microsoft® Windows® 11

Spectral Sensitivity:



Sample Image:

