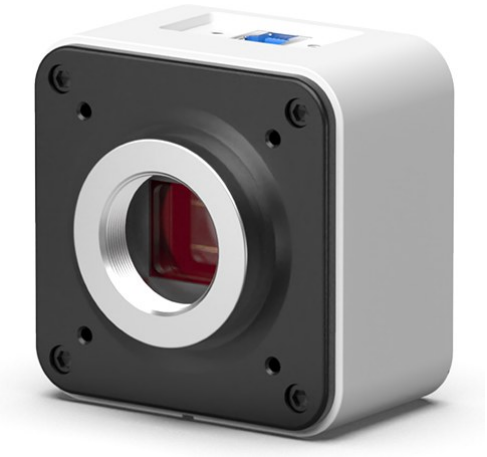
MIchrome 5 Pro Global Shutter Color Microscope Camera, 5 MP, USB 3.0

Model MIchrome 5 Pro · waveqvanta.com/products/michrome-5-pro-microscope-camera

A 5 MP global shutter color camera for fluorescence and brightfield microscopy, with live stitching and EDF.



The MIchrome 5 Pro uses a Sony global shutter color CMOS sensor with 2448 × 2048 resolution and 3.45 µm pixels, read out over USB 3.0 at 35.9 fps. Because all pixels are exposed at once, moving specimens are recorded without distortion, which suits fluorescence and live-sample work.

Key features

- Global shutter: all pixels are exposed simultaneously for undistorted images of moving specimens
- 2448 × 2048 (5 MP) at 35.9 fps full frame, or 88.8 fps at 1224 × 1024
- Live stitching builds large panoramic images within seconds while the stage is moved
- Live EDF merges different focal planes into one extended-depth-of-field image as the focus is turned
- Color temperature adjustable from 2000 to 15000 K; images saved as TIF, JPG, PNG or DICOM
- Up to four cameras can run at the same time through the SDK (C, C++, C#, DirectShow, TWAIN)
- 11.1 mm sensor diagonal, standard C-mount, 3 W power draw over USB 3.0

Specifications

Sensor Type	Sony CMOS
Color / Mono	Color
Resolution	2448 × 2048 (5 MP)
Pixel Size	3.45 µm × 3.45 µm
Effective Area	8.4 mm × 7.1 mm
Array Diagonal	11.1 mm
Frame Rate	35.9 fps @ 2448 × 2048; 88.8 fps @ 1224 × 1024
Shutter Type	Global
Exposure Time	124 µs – 15 s
Binning	2 × 2, 3 × 3, 4 × 4
Bit Depth	8-bit, 16-bit
Color Temperature	2000–15000 K
Data Interface	USB 3.0
Optical Interface	C-mount
Power Consumption	3 W
Dimensions	68 mm (H) × 68 mm (W) × 46 mm (L)
Weight	330 g
Operating Environment	Operating −10 to 45 °C, 10–85% RH
Image Format	TIF, JPG, PNG, DICOM
Multi-Camera	Up to 4 cameras simultaneously via SDK

Software / SDK Support	Acquisition and analysis software; SDK: C, C++, C#, DirectShow, TWAIN
Operating System	Windows 10/11 (64-bit), Mac
PC Requirements	Intel Core i5 quad-core or higher, 8 GB RAM or more

Typical applications

- Fluorescence microscopy (e.g. BPAE cells)
- Biological brightfield microscopy with live stitching
- Stereo microscopy with live EDF (e.g. insects)
- Polarized-light and metallographic microscopy (e.g. rock thin sections)