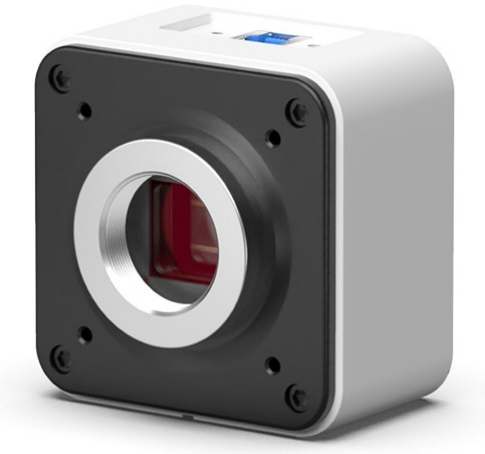
MIchrome 6 Color Microscope Camera, 6 MP, 41 fps, USB 3.0

Model MIchrome 6 · waveqvanta.com/products/michrome-6-microscope-camera

An economical 6 MP color camera for everyday brightfield microscopy in biology and industry.



The MIchrome 6 is a 6 MP (3072 × 2048) color camera for brightfield microscopy that streams 41 fps over USB 3.0. Live image stitching and depth-of-field fusion are included, and the 6 MP format is widely used in both biological and industrial microscopy at an economical price point.

Key features

- 3072 × 2048 (6 MP) Sony color CMOS sensor with 2.4 µm pixels and an 8.92 mm diagonal
- 41 fps at full resolution over USB 3.0 for smooth live viewing
- 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)
- Exposure from 11 µs to 12 s; 2 × 2, 3 × 3 and 4 × 4 binning

Specifications

Sensor Type	Sony CMOS
Color / Mono	Color
Resolution	3072 × 2048 (6 MP)
Pixel Size	2.4 µm × 2.4 µm
Effective Area	7.4 mm × 4.9 mm
Array Diagonal	8.92 mm
Frame Rate	41 fps @ 3072 × 2048
Shutter Type	Rolling
Exposure Time	11 µs – 12 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

- Biological brightfield microscopy with live stitching
- Automatic stitching of plant tissue sections (e.g. Lilium, 20×)
- Stereo microscopy with live EDF (e.g. insects)
- Circuit board inspection under a stereo microscope