GT 5.0 USB 2.0 Color Microscope Camera, 5 MP, 29 fps

Model GT 5.0 · waveqvanta.com/products/gt-5-0-microscope-camera



5 MP color camera for routine biological and industrial microscope imaging over USB 2.0.

The GT 5.0 is a compact 5 MP color CMOS camera for everyday microscope imaging. On-camera graphics acceleration raises the frame rate available over USB 2.0 while keeping the original image output, giving 29 fps at 2560 × 1920. Dedicated color processing for biological and industrial samples, together with measurement tools in the acquisition and analysis software, supports routine lab and inspection work.

Key features

- Sony color CMOS sensor: 2560 × 1920 (5 MP), 2.0 µm pixels, 6.52 mm diagonal
- Graphics acceleration delivers 29 fps at full resolution over USB 2.0 without altering the original image output
- Separate color algorithms for biological imaging (color fidelity) and industrial imaging (suppression of strong reflections)
- Software with one-click capture plus measurement and image comparison tools
- SDK for C, C++, C#, DirectShow and TWAIN; up to 4 cameras can run simultaneously via the SDK
- Standard C-mount, 2 W power consumption, 68 × 68 × 42.5 mm, 236 g

Specifications

Sensor Type	Sony CMOS
Color / Mono	Color
Resolution	2560 × 1920 (5 MP)
Pixel Size	2.0 × 2.0 µm
Effective Area	5.1 × 3.8 mm
Array Diagonal	6.52 mm
Frame Rate	29 fps @ 2560 × 1920 (USB 2.0)
Shutter Type	Rolling
Exposure Time	1 µs – 1 s 941 ms
Data Interface	USB 2.0
Optical Interface	C-mount
Power Consumption	2 W
Dimensions	68 × 68 × 42.5 mm (H × W × L)
Weight	236 g
Operating Environment	Working: 0–40 °C, 10–85% RH
Image Format	TIF, JPG, PNG, DICOM
Multi-Camera	Up to 4 cameras simultaneously (via SDK)
Operating System	Windows 7 / 10 (32-bit / 64-bit), Mac
PC Requirements	Intel Core i5 quad-core or higher; 8 GB RAM or more
Software / SDK Support	Acquisition and analysis software; C / C++ / C# / DirectShow / TWAIN SDK

Typical applications

- Pathology imaging on biological microscopes
- Biological microscopy of plant and insect specimens
- Stereo microscopy of objects such as coins
- Basic microscope imaging and documentation