



## SNAP SERIES

Experience Superior Imaging with the SNAP Series

The SNAP Series offers a compact, high-performance CMOS camera solution featuring a premium Sony CMOS sensor and a reliable USB 2.0 data interface. With hardware resolutions ranging from 2.1MP to 8MP, each camera is housed in a durable zinc-aluminium alloy enclosure that maintains a lightweight, space-saving design.

- **High-Speed Performance:** Advanced MJPEG compression, coupled with software unique decoding methods and image restoration algorithms, achieves the industry's highest frame rates for USB 2.0 cameras.
- **Ultra-Fine ISP Engine:** Integrated hardware ensures outstanding colour accuracy and image quality.
- **Flexible Controls:** Choose between automatic or manual exposure, set precise exposure times, and adjust the exposure target area in real-time.
- **Colour & White Balance Adjustments:** Take advantage of automatic/manual/ROI white balance, as well as colour tuning, colour mode selection, and image flipping.
- **Comprehensive Image Corrections:** Benefit from histogram adjustments, flat-field and dark-field corrections, plus video ROI support.
- **Complete Software Support:** Each SNAP Series camera is fully compatible with advanced video and image processing application, and includes SDKs for Windows, Linux, macOS, and Android (Native C/C++, C#/VB.NET, Python, Java, DirectShow, Twain, etc.).

The SNAP Series delivers exceptional performance in brightfield lighting conditions, making it perfect for microscopy image capture, analysis, and any scenario that demands moderate frame rates without compromising on clarity or colour fidelity.

# Features

- Standard C-Mount camera featuring a Sony CMOS sensor
- USB 2.0 interface for high-speed data transmission
- Integrated large-capacity memory chip ensures synchronized data transfer, low latency, high frame rates, and stable performance
- Compatible with Microsoft’s USB Video Class protocol, supporting third-party software development

	Sensor and Size (mm)	Pixel (mm)	G Sensitivity Dark Signal	FPS/Resolution	Binning	Exposure
SNAP 2	2.1M/IMX307(C) 1/2.8"(5.73X4.3)	2.9X2.9	1300 mV 73 dB 43 dB	38@1920x1080 38@960x540	1x1	0.1-2000 ms
SNAP 5	5.1M/IMX335(C) 1/2.8"(5.18X3.89)	2.0x2.0	505 mV 70 dB 43 dB	26@2592x1944 26@1280x960 26@640x480	1x1	0.1-2000 ms
SNAP 8	8.3M/IMX274(C) 1/2.5"(6.22x3.50)	1.62X1.62	236 mV 70 dB 43 dB	30@3840x2160 30@1920x1080 30@1280x720 30@960x540	1x1	0.1-2000 ms

- Built-in ultra-fine hardware ISP engine provides excellent colour accuracy
- High-performance MJPEG compression algorithm delivers industry-leading frame rates for USB 2.0 cameras
- Compliant with CE and FCC standards
- CNC-machined aluminium alloy housing
- Includes an advanced video and image processing application
- Provides SDKs for Windows, Linux, macOS, and Android platforms

