MICAPS MS4KUHD8MPCA

C-mount USB CMOS Cameras
SONY EXMOR/STARVIS CMOS Sensor

The Micaps MicroSharp(MS) Series camera is not only compact but also delivers high performance as a USB flash drive CMOS camera. It utilizes SONY STARVIS CMOS sensors for image capture, and USB serves as the data transfer interface.

Features

- MicroSharp(MS) Series camera with Sony Exmor/STARVIS back-illuminated CMOS sensor
- Embedded microView software for controlling cameras with measurement, grid line overlay, and custom templates
- Offering convenient features like automatically finding edges, measuring the distance between parallel lines, and calculating the dimensions of rectangles without manual input.
- You can use a USB flash drive to store images and videos you capture. Plus, you can preview and play them locally. There are also features for comparing pictures side by side and turning pictures into videos.
- The ISP (Image Signal Processor) is top-notch, with features like improving dark areas, making images sharper, and reducing 3D noise for better quality.
- It's easy to switch between default modes for both biological and stereoscopic microscopes. This makes it super convenient for users working in various situations.

Order Code	Sensor & Size(mm)	Pixel(µm)	G Sensitivity Dark Signal	FPS/Resolution	Binning	Exposure
MS4KUHD8MPCA	SonyIMX678[C] 1/1.8"(7.68x4.32)	2.0x2.0	1364mv with 1/30s 0.15mv with 1/30s	30@3840*2160(HDMI)	1X1	0.04~1000

Camera

Sensor Model	CMOS sensor
Pixel size	96 µm x 96 µm
Frame Rate & Resolution	120 fps @ 1200 x 1536
Dark Current	2200 e /s/pixel @ 25
Exposure Time Range	10 µs - 15 s
Shutter Mode	Rolling Shutter
Binning Mode	Hardware 1x1, 2x2, 3x3
Data Interface	USB3.0 (USB3.1 GEN1)
Digital IO	1 opto-isolated input, 1 opto-isolated output, 2 non-isolated I/O ports
Data Format	8-bit / 12-bit

General Specifications

Power Supply	Powered via USB3.0 interface
Temperature	Operating: -10 ~ 50 , Storage: -30 ~ 70
Humidity	20%-80% (no condensation)
Dimensions	220 mm x 160 mm x 28.6 mm
Lens Mount	M42 Mount
Software	Complete SDK package / MicroView
Platform & Architecture	Windows 32-bit / Windows RT / Linux / macOS / Android; x86 / x64 / ARM HF / ARM EL / ARM64
Certifications	CE, FCC