



MICAPS MicroSharp(MS) SERIES

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.

Applications

- Digital laboratory, medical research
- Industrial visual (PCB examination, IC quality control)
- Medical treatment (pathological observation)
- Food (microbial colony observation and counting)
- Aerospace, military (high sophisticated weapons)
- Scientific research, education (teaching, demonstration and academic exchanges)

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
MS1080P2MPCA	Sony IMX385(C) 1/2"(7.2x4.05)	3.75X3.75	1175mv with 1/30s 0.15mv with 1/30s	60@1920*1080(HDMI)	1x1	0.04~1000

C: Color.

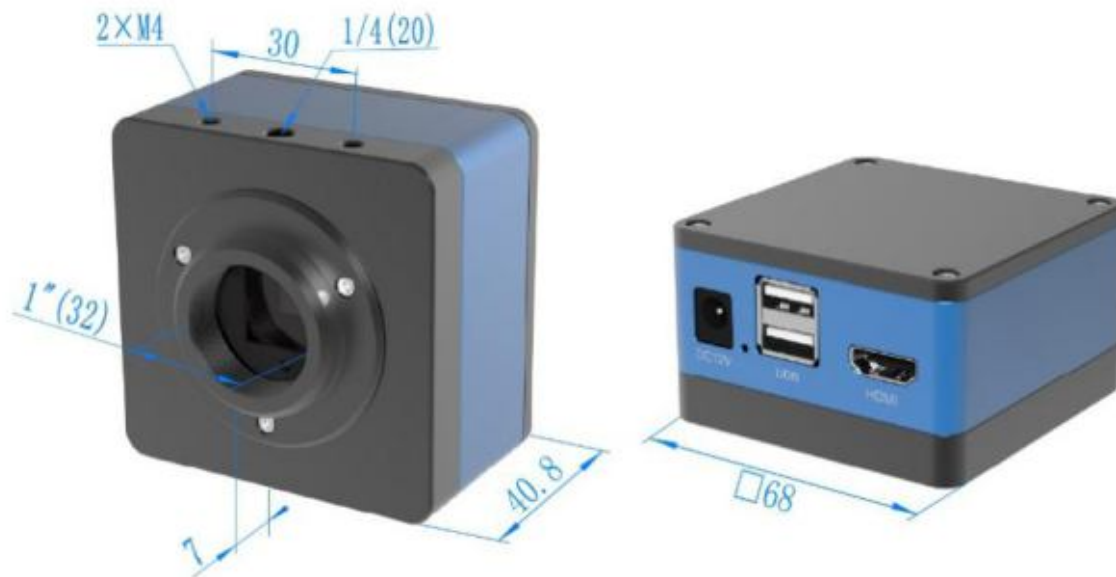
Video Output Interface	Function Description
HDMI Interface	Comply with HDMI1.4 standard30fps@4K or 30fps@1080P(MS4KUHD8MPCA), 60fps@1080P(MS1080P2MPCA)
Other Function	Function Description
Video Record	Video format: 8M(3840*2160) H264/H265 encoded MP4 file(MS4KUHD8MPCA) 8M(3840*2160) H264/H265 encoded MP4 file(MS1080P2MPCA) Frame rate during video record:30fps(MS4KUHD8MPCA), 60fps(MS1080P2MPCA)
Image Capture	8M (3840*2160,MS4KUHD8MPCA) JPEG/TIFF image in USB flash drive 2M (1920*1080,MS1080P2MPCA) JPEG/TIFF image in USB flash drive
Measurement Saving	Measurement information saved in different layer with image content in Layered mode. Measurement information is saved together with image content in Burn in Mode
ISP	Exposure (Automatic / Manual Exposure) / Gain, White Balance, Sharpness, 3D Denoising, Saturation Adjustment, Contrast Adjustment, Brightness Adjustment, Gamma Adjustment, Color to Gray,50HZ/60HZ Anti-flicker Function
Image Operation	Zoom In/Zoom Out (Up to 10X), Mirror/Flip, Freeze, Cross Line, Compare(Comparison function between real-time video and pictures on storage media, image to image comparison), Embedded Files Browser, Video Playback, various Measurement Function

Interface or Button	Function Description
DC12V	Power adapter connector (12V/1A)
LED	LED status indicator
USB	Connect USB mouse for easy operation with embedded MicroView software Connect USB flash drive to save pictures and videos
HDMI	Comply with HDMI1.4 standard. 4K/1080P format video output and supporting automatic switch between 4K and 1080P format according to the connected monitors (MS4KUHD8MPCA) Comply with HDMI1.4 standard. 1080P format video output (MS1080P2MPCA)

Other Function	Function Description
Embedded RTC(Optional)	To support accurate time on board
Restore Factory Settings	Restore camera parameters to its factory status

SOFTWARE ENVIRONMENT	
Operating System	Support Microsoft Windows XP / Vista / 7 / 8 / 10(32 & 64 bit) OS X (Mac OS X), Linux
PC Requirements	CPU: Equal to Intel Core2 2.8GHz or Higher
	Memory: 2GB or More
	USB port: USB2.0 High-speed Port
	Display: 17" or Larger
	CD-ROM

Operating Environment	
Operating Temperature (in Centidegree)	-10~ 50
Storage Temperature (in Centidegree)	-20~ 60
Operating Humidity	30~80%RH
Storage Humidity	10~60%RH



LABLINK INSTRUMENTS

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