



# MICAPS HPSCMOS8300CA

C-mount USB 2.0 CMOS Cameras  
SONY Exmor CMOS Sensor



The HPSCMOS8300CA camera features a top-notch SONY Exmor CMOS sensor for capturing images, with USB2.0 serving as the data transfer interface. With hardware resolutions of 8.3MP, the camera is housed in a sturdy CNC aluminum alloy casing. It comes equipped with the MicroView application for advanced video and image processing. The camera also offers a versatile range of platform support, including Windows, Linux, macOS, and Android, along with multiple SDK options (Native C/C++, C#/VB.NET, Python, Java, DirectShow, Twain, etc). Ideal for bright field light environments, the HPSCMOS8300CA is well-suited for microscope image capture and analysis, boasting a higher frame rate.

### Features

- Standard C-Mount camera with Sony Exmor (Back illuminated) CMOS sensor
- Rolling Shutter
- CNC aluminum alloy housing
- USB2.0 interface ensuring high speed data transmission
- Ultra-Fine color engine with perfect color reproduction capability
- With advanced video & image processing application MicroView
- Windows/Linux/macOS/Android multiple platform SDK

### 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)

Model No.	Sensor & Size(mm)	Pixel(μm)	G Sensitivity Dark Signal	FPS/Resolution	Binning	Exposure
HPSCMOS8300CA	8.3M/IMX274(C) 1/2.5"(6.22x3.50)	1.62x1.62	236mv with 1/30s 0.1mv with 1/30s	4@3840x2160 16@1920x1080	1x1 2x2	0.244ms~15s

C: Color

### Other Hardware Configuration

Spectral Range	380-650nm (with IR-filter), for Monochromatic Camera, AR Is Used
White Balance	ROI White Balance/ Manual Temp-Tint Adjustment
Color Rendering Technique	Super Fine Color Engine
Capture/Control SDK	Windows/Linux/macOS/Android Multiple Platform SDK(Native C/C++, C#/VB.NET, Python, Java, DirectShow, Twain, etc)
ADC	8 Bit
Recording System	Still Picture and Movie
Cooling System*	Natural

### Operating Environment

Operating Temperature	-10 °C~ 50 °C
Storage Temperature	-20 °C~ 60 °C
Operating Humidity	30~80%RH
Storage Humidity	10~60%RH
Power Supply	DC 5V over PC USB Port,

### 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



### LABLINK INSTRUMENTS

- Plot no. 337, Sector 2, HSIIDC Saha, Saha, Ambala (Haryana) India - 133104.
- Plot no 3-6-164/2, 2nd Street, Hyderguda Himayatnagar, Hyderabad (Telangana) India - 500029

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