



# MICAPS HPSCMOS2000CA

C-mount USB 2.0 CMOS Cameras  
SONY STARVIS CMOS Sensor



The HPSCMOS2000CA camera features a top-notch SONY STARVIS CMOS sensor for capturing images, with USB2.0 serving as the data transfer interface. With hardware resolutions of 2.0MP, 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 HPSCMOS2000CA is well-suited for microscope image capture and analysis, boasting a higher frame rate.

## Features

- Standard C-Mount camera with Sony Starvis (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<br>Dark Signal           | FPS/Resolution | Binning | Exposure    |
|---------------|-------------------------------------|-----------|----------------------------------------|----------------|---------|-------------|
| HPSCMOS2000CA | 2.0M/IMX290(C)<br>1/2.8"(5.56x3.13) | 2.9 x2.9  | 1300mv with 1/30s 0.15mv<br>with 1/30s | 17@1920x1080   | 1x1     | 0.105ms~15s |

C: Color

## Other Hardware Configuration

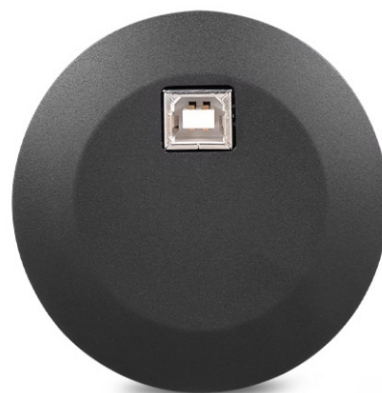
|                           |                                                                                                                  |
|---------------------------|------------------------------------------------------------------------------------------------------------------|
| Spectral 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. 435, 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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