![micaps logo]

# MICAPS
# HPSCMOS1200CA

## C-mount USB 2.0 CMOS Cameras
## SONY STARVIS CMOS Sensor

The HPSCMOS1200CA 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 1.2MP, 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 HPSCMOS1200CA 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 Dark Signal | FPS/Resolution | Binning | Exposure |
|---|---|---|---|---|---|---|
| HPSCMOS1200CA | 1.2M/IMX224(C) 1/3"(4.80x3.60) | 3.75 x3.75 | 2040mvwith 1/30s 0.15mv with 1/30s | 27@1280x960 54@640x480 | 1x1 2x2 | 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 |

### 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 | -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, |