MICAPS HPECMOS1200CD

CMOS Cameras USB 2.0

The HPECMOS1200CD camera from Micaps is a high-quality USB 2.0 CMOS camera designed for clear, reliable imaging. It features a high-performance CMOS sensor for capturing sharp images and includes onboard frame buffers to help manage data efficiently. With a USB 2.0 interface, it's easy to connect and use across various systems. The HPECMOS1200CD camera comes bundled with MicroView, an advanced video and image processing software. It also includes a comprehensive SDK that supports multiple platforms, including Windows, Linux, macOS, and Android. Developers can work with a variety of programming languages and interfaces like C/C++, C#/VB.NET, Python, Java, DirectShow, and Twain. This camera is well-suited for use in brightfield environments and is ideal for microscope imaging and analysis where moderate speed is sufficient.

Features

- Standard C-Mount Camera with Aptina CMOS sensor
- With hardware resolution 1.2M
- On-board memory for perfect synchronization, higher frame rate and stable performance
- High performance cooling structure, ensures low image noise
- USB2.0 interface ensuring high speed data transmission
- Super-Fine color engine with perfect color reproduction capability
- With advanced video & image processing application MicroView
- Windows/Linux/macOS/Android multiple platform SDK

Applications

- Scientific research, education (teaching, demonstration and academic exchanges)
- 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)

Order Code	Sensor & Size(mm)	Pixel(μm)	G Sensitivity Dark Signal	FPS/Resolution	Binning	Exposure
HPECMOS1200CD	1.2M/AR0130(C) 1/3"(4.80x3.60)	3.75 x3.75	5.5v/lux-sec 85.3dB 44dB	28@1280x960 30@640x480	1x1 2x2	0.4ms~2000ms

Software Environment Under Lan/wan/usb Video Output	
Spectral Range	380-650nm (with IR-cut Filter)
White Balance	ROI White Balance/ Manual Temp Tint Adjustment/NA for Monochromatic Sensor
Color Technique	Ultra-Fine Color Engine/NA for Monochromatic Sensor
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 with High Performance Cooling Structure
Operating System	Microsoft® Windows® XP / Vista / 7 / 8 / 8.1 /10(32 & 64 bit), OSx(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
Power Supply	DC 5V over PC USB port

LABLINK INSTRUMENTS

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- Plot no 3-6-164/2, 2nd Street, Hyderguda Himayatnagar, Hyderabad (Telangana)India - 500029

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