MICAPS TINYCMOS5000CA

CMOS eyepiece Cameras USB 2.0

Micaps Tinycmos is a budget-friendly CMOS eyepiece camera designed with a simple, compact structure. It uses a USB 2.0 connection for easy data transfer. This microscope eyepiece camera has a 23.2 mm diameter, making it a perfect fit for most standard microscopes. Despite its small size, it delivers smooth, high-frame-rate video over USB 2.0, ensuring a seamless viewing experience without lag.It comes bundled with Micaps' powerful image and video processing software, giving you advanced tools for capturing and analyzing your observations. The Tinycmos is ideal for turning traditional monocular or binocular student microscopes into digital microscopes. And with optional adapters (23.2 to 30 mm or 23.2 to 30.75 mm rings), it can also upgrade stereo microscopes into fully digital systems.

Features

- Microscope eyepiece camera with 23.2 diameter and compact size
- Easy to extend to C Mount camera with high quality lens (optional)
- High-quality camera with Aptina and Sony CMOS sensor
- High-speed USB2.0 interface and high frame rate video display keep the screen smooth without interruption
- Auto white balance and auto-exposure; Brightness, contrast, chroma, and saturation can be adjusted
- With advanced video & image processing application MICAPS MicroView
- Providing Windows/Linux/Mac OS multiple platforms 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
TINYCMOS5000CA	5.0M/Aptina(C) 1/2.5“ (5.70x4.28)	2.2x2.2	NA	2@2592x1944 3@2048x1536 5@1600x1200 7.5@1280x1024	N/A	Auto

Software Environment Under Lan/wan/usb Video Output	
Spectral Range	380-650nm (with IR-cut Filter)
White Balance	Auto/ROI/Manual White Balance
Color 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);
Recording System	Still Picture and Movie
Data Format	MJPEG
Cooling System*	Natural
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: 4GB or More, Ethernet Port: RJ45 Ethernet Port, Display:19” 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

- 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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