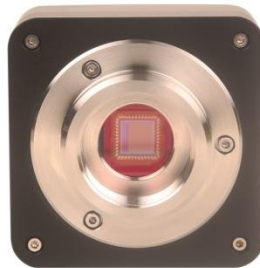


### INTRODUCTION

ACUCAL Microscopy cameras are particularly remarkable for their fast live images, short reaction times, high resolution and clear contrast. And they are compatible with almost all microscopes. Our product range covers digital Microscope Cameras with intuitive software for archiving, measurement, analysis and presentation. 100% reproducibility of the exposures and highly convenient remote control of the cameras and ensure a fast and economical workflow.



### FEATURES

- Standard C-mount CMOS Sensor Digital Color Camera.
- No compression, no interpolation.
- Support still image capture(JPEG, BMP, TIFF, PNG, TGA, TIF, DICOM) & Video Recording.
- USB2.0 interface, up to 480MPS, external power no need.
- Interfaced to a computer via USB2.0 for attaching camera to desktop/ through single wire with suitable C-mount camera adapter for rapid image download.
- Plug-to-use, suitable for imaging of any standard Biological, Stereo and Metallurgical microscopes for observations, such as bright field, DIC, phase contrast and fluorescence.
- Ease of operation; only take 5 minutes to master the friendly software.
- Standard C-Mount makes connection to any microscope easy.
- Integrated zinc aluminum alloy housing.
- Ultra-Fine TM color engine with perfect color reproduction capability of still picture or movie.
- With advanced video & image processing application.
- Windows/Linux/macOS/Android multiple platform SDK.
- Capture/Control API: Native C/C++,C#/VB.NET, Direct Show, Twain, Lab View
- Data Format : 12bit RAW Format(12\*3=36 bit RGB)

### FIELDS OF APPLICATION

Materialography  
Quality Control  
Pathology

Inspection Industry  
Geology  
Forensic

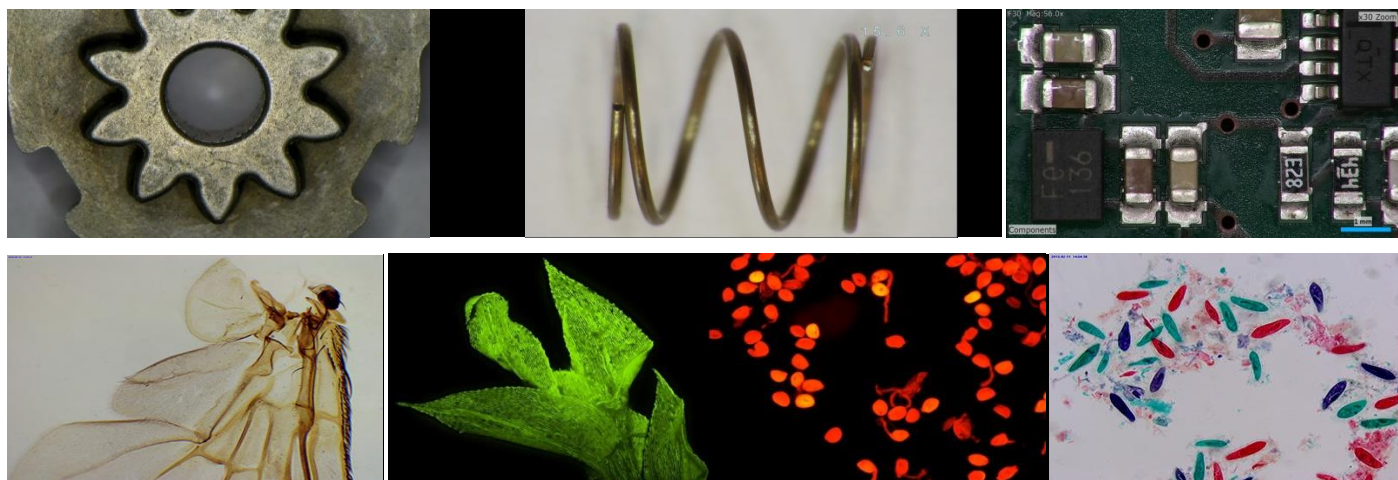
Patrography  
Mineralogy  
Cell Biology



#### SPECIFICATION

Parameter	ACUCAM-5MP
Image Sensor	1/2.5" color APTINA CMOS (5.1 megapixel)
Frame Rate	8 fps at 2592 X 1944 27.7 fps at 1296X972 90 fps at 648X486
Max. Resolution	2592 X 1944 (5.1M Pixels)
Pixel Size	2.0 $\mu\text{m}$ x2.0 $\mu\text{m}$ or 2.2 $\mu\text{m}$ x2.2 $\mu\text{m}$
Signal/Noise	44 dB
Dynamic Range	67 dB
Digital Output	10 bit RAW image data format
A/D Conversion	12 bit
Read Noise	8 e- rms
Color Depth	30 bit
Binning	1x1,2x2,4x4
Sensitivity	0.53V/lux-sec 550nm
Spectral Response	380-720 nm (With IR Filter)
Scan Mode	Progressive Scan
Power Requirement	PC USB bus power DC 5V+5%
Operating Temperature & Humidity	-10° C to +60° C & RH 5%-100%, Non-condensing
Storing Temperature & Humidity	-20° C to +60° C & 10%-60%, Non-condensing
Exposure Time	1 $\mu\text{s}$ to 3000ms
Exposure Control	Automatic / Manual
White Balance	ROI, Automatic / Manual, Temp-Tint Adjustment
Gain Programmable & Data Interface	Interface Connector Standard USB 2.0 high-speed interface.
Shutter	Electronic Rolling

#### EXCELLENCE THROUGH EXPERIENCE



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