ACUCAL

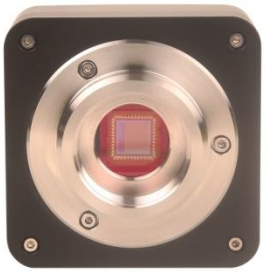
High Tech Quality Instruments

HIGH RESOLUTION MICROSCOPY CAMERA

Type: ACUCAM-3MP

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, TFT, DICOM) & Video Recording.
- USB3.1 interface, up to 0.5GBPS, external power no need.
- Interfaced to a computer via USB3.1 for attaching camera to desktop/ through single wire with suitable C-mount camera adapter for rapid image download. macro lens supported
- 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 color engine with perfect color reproduction capability;
- With advanced video & image processing application
- Windows/Linux/macOS/Android multiple platform SDK;

FIELDS OF APPLICATION

Materialography	Inspection Industry	Patrography
Quality Control	Geology	Mineralogy
Pathology	Forensic	Cell Biology

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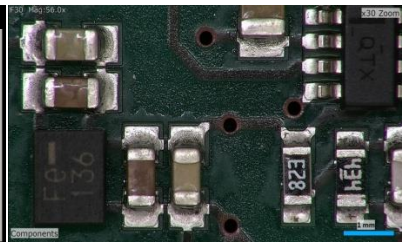
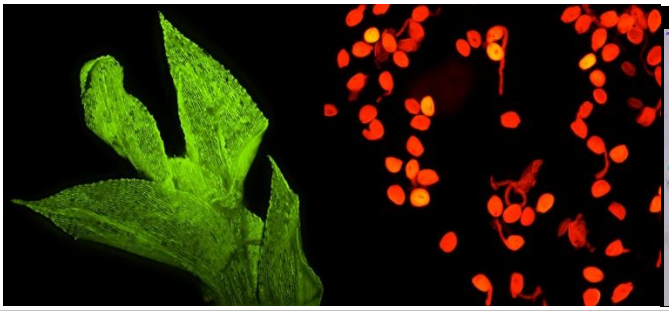
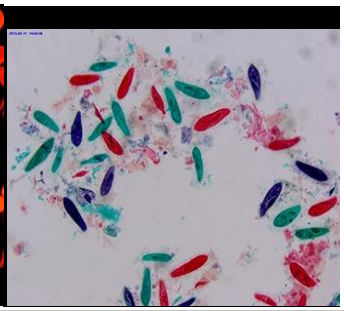
SPECIFICATION

Parameter	ACUCAM-3MP
Image Sensor	1/1.8" color CMOS (3.1 megapixel)
Frame Rate	30 fps at 2048 X 1536 50 fps at 1024X768
Max. Resolution	2048 X 15364 (3.1M Pixels)
Pixel Size	3.45 µm x 3.45 µm
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
Binning	1x1,2x2,4x4
Sensitivity	1.0 V/lux-sec 550nm
Spectral Response	380-720 nm (With IR Filter)
Scan Mode	Progressive Scan
Power Requirement	PC USB bus power DC 5V±5%,200mA
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	10µs to 3000ms
Exposure Control	Automatic / Manual
White Balance	ROI, Automatic / Manual, Temp-Tint Adjustment
Gain Programmable & Data Interface	Interface Connector Standard USB 3.1 high-speed interface.
Shutter	Electronic Rolling

EXCELLENCE THROUGH EXPERIENCE



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