



COLO MicrosCam10 Ultra HD/4K High Quality Digital Color Microscope Camera

Download
Catalogue



ULTRA HDMI/USB3.0/Wi-Fi Data transfer



ULTRA HD/4k (2160p) resolution 8MP/16MP



Auto focus - Optional



Spectral response – 380-650nm with IR-Cut Filter



Live video picture 60fps@1920×1080(HDMI)

The COLO MicrosCam100 series USB3.0/ULTRA HDMI/Wi-Fi camera with C-mount provide you simple and high-quality method to upgrade microscopes. The USB 3.0 camera replaces or supplements the standard eyepiece of a microscope. The supplied software enables measurements (lengths, areas, angles, circles, etc.) and image comments, single images and film recordings - ideal for quality control and assurance, use as teaching aids, for demonstration purposes and presentations, school, hobby and job. The camera can be connected directly to an ULTRA HDMI monitor, the MicrosCam-View software superimposes the monitor image with the controls, which are then controlled via the mouse on the camera's USB 3.0 port. For wireless transmission, a Wi-Fi adapter is connected to the camera instead of the mouse and the computer is then connected to this adapter. With wireless and Wi-Fi transmission, the camera allows manual and auto focus. Wireless and ULTRA HDMI can be operated in parallel. Signal via USB 3.0 at 5 Gpbs.

The Sony IMX back-illuminated sensor is tuned for low-light applications including fluorescence.

Features:

- ULTRA HDMI/USB3.0/Wi-Fi Connection
- ULTRA HD/4K (2160p) Standard offer sharper pictures with more details.
- Live video 60fps@1920×1080(HDMI)
- Data transfer: HDMI, WLAN (WLAN adapter included), Ethernet (via USB-to-Ethernet adapter)
- The camera can operate in standalone or PC connected mode using built-in tools for capturing and editing images and video.
- Captures still images and video
- Sensore: Color CMOS
- Fluorescence color-mapping
- Manul and Automatic Exposure and white-balance controls
- Image-stitching, extended depth-of-field, HDR
- Dark-field correction
- Digital binning
- Image processing
- Measuring functions: Line: measuring length, parallel lines, Circle: diameter, area, Angle: angle measurement, Rectangle: Area, perimeter measurement, Polygon: area, perimeter, point: coordinates, number of points.

MicrosCam	101	102	103	104 - Autofocus
SKU				
Spectral Response	380-650nm with IR-cut filter			
Output	ULTRA HDMI, USB3.0, USB Mouse, Wi-Fi, LAN			
Resolution	2592x1944 ULTRA HDMI – 8,3MP	2592x1944 ULTRA HDMI – 8,3MP	5440x3060 – 16,6MP	2592x1944 ULTRA HDMI – 8,3MP
Resolution max	2592x1944 px photography, 1920x1080 (HDMI, WLAN, on PC)	2592x1944 px photography, 1920x1080 (HDMI, WLAN, on PC)	5440x3060 px photography, 1920x1080 (HDMI, WLAN, on PC)	2592x1944 px photography, 1920x1080 (HDMI, WLAN, on PC)
G Sensitivity	505 mv with 1/30s 0.13 mv with 1/30s	2188mv with 1/30s 0.39mv with 1/30s	461 mv with 1/30s 0.21 mv with 1/30s	2188mv with 1/30s 0.39mv with 1/30s
Fps	60@3840x2160(ULTRA HDMI)			
Pixel Size	2.0µm x 2.0µm	2.4µm x 2.4µm	2.4µm x 2.4µm	2.9µm x 2.9µm
Sensor Type / size mm	4K/Sony IMX334(C) 1/2.8"(7.680x4.320 mm)	Sony CMOS sensor IMX334C - 1/1.8 "(7.140 x 4.980 mm)back-illuminated	4K/Sony IMX183(C) 1/1.06"(13.060x7.270 mm)	Sony CMOS sensor IMX334C - 1/1.8 "(7.680 x 4.320 mm)back-illuminated
Dark signal	505 mv with 1/30s 0.13 mv with 1/30s	2188mv with 1/30s 0.39mv with 1/30s	461 mv with 1/30s 0.21 mv with 1/30s	2188mv with 1/30s 0.39mv with 1/30s
Exposure	0.04ms~10000ms			
Sensitivity acc ISO	150			
Speed	60 fps@1920x1080 (HDMI output)			
Binning	1 X 1			
Reduction Lens	0.75X (optional)			
Internal Recording Media	SD Card 16 GB			
Internal Video Capture Format	MP4			
Wi-fi Standard	802.11ac 2.4GHz/5GHz			
Lens Mount	C-Mount			
Adaptor	0.5x C-mount			
Internal Photo Capture Format	JPG,JP2,PNG,TFT,TIF,WEBP			
OS Requirements	Windows (32/64 bit) XP/Vista/7/8/10, Mac OS 10.8+, Linux kernel 3.13+, Supported mobile technologies: App available for iOS 11 and later, Android 5.1 and later			
Hardware Requirements	Intel Core2 2.8GHz or comparable processor, 4GB RAM			
Power	12VDC 1A			
Dimensions	78mm x 65mm x 98mm			
Operating Temperature	-10-50°C			
Operating Humidity	30-80% RH			
Standard Packing (One pc each)	Microscope Camera, Optical Mouse, 16GB SD Card, ULTRA HDMI Cable, USB 3.0 Wi-Fi Adapter, AC Power supply, USB 3.0 with Software, Monitor			