



# 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@3840×2160(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@3840×2160(HDMI)
- 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
- 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
- Measurement tools, including lines, arcs, polygons

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	3840X2160 ULTRA HDMI - 8,3MP	3840X2160 ULTRA HDMI - 8,3MP	5440*3060 - 16,6MP	3840X2160 ULTRA HDMI - 8,3MP
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	2.9µm x 2.9µm	2.4µm x 2.4µm	2.9µm x 2.9µm
Sensor Type / size mm	4K/Sony IMX334(C) 1/2.8"(7.68x4.32)	Sony CMOS sensor IMX334C - 1/1.8 "(7.68 x 4.32 mm)back- illuminated	4K/Sony IMX183(C) 1/1.06"(13.06x7.27)	Sony CMOS sensor IMX334C - 1/1.8 "(7.68 x 4.32 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			
Live video fps/resolution	60@3840×2160 (ULTRA HDMI)			
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			
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+			
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			