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ALPHA1080 Series HDMI+USB Outputs C-mount CMOS Camera

All in 1(HDMI+USB+SD card) C-mount camera with high sensitivity CMOS sensor;

Simultaneous HDMI & USB output;

Built-in mouse control;

Built-in image capture & video record to SD card;

Built-in camera control panel for mouse control;

Built-in toolbar including zoom,mirror,comparison,freeze,cross,browser functions;

Built-in image & video browsing,display & play;

Ultra-Fine color engine with perfect color reproduction capability(USB);

With advanced video & image processing application ToupView, ;

Support standard UVC for Windows/Linux/Mac(USB);

CNC shell molding design;



Specification

ALPHA1080 Series HDMI+USB+SD Card All in 1 C-mount CMOS Camera

ALPHA1080 series is a multiple interfaces (HDMI+USB2.0+SD card) CMOS camera and it adopts ultra-high performance Sony CMOS sensor as the image-picking device. HDMI+USB2.0 are used as the data transfer interface to HDMI display or computer.

For HDMI camera mode, The XCamView will be loaded and the Camera Control Panel+ Measurement Toolbar + Synthesis Camera Control Toolbar are overlaid on the HDMI screen when the mouse move to the related region, in this case, the USB mouse can be used to set the camera, browse and compare the captured image, play the video and perform the measurement it al.

For USB Video camera mode, plug in the micro USB host cable to the camera's USB Video port and computer USB port, then the video stream can be transfer to computer with the advanced software ToupView. With ToupView, you can control the camera, process the video and image as ToupTek's other USB series camera.

ALPHA1080 series camera can be used for microscope, industrial stereo microscope, on-line inspection et al.

Order Code	Sensor & Size(mm)	Pixel(μm)	G Sensitivity Dark Signal	FPS/Resolution	Binning	Exposure
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ALPHA1080A AL1080A	1080P/Sony IMX290(C) 1/2.8"(5.57x4.13)	2.9x2.9	1300 mv with 1/30s 0.15 mv with 1/30s	26@1920x1080(HDMI) 26@1920x1080(USB)	1x1	0.036ms~8s
ALPHA1080B AL1080B	1080P/Sony IMX185(C) 1/1.9"(7.20x4.50)	3.75x3.75	1120 mv with 1/30s 0.15 mv with 1/30s	26@1920x1080(HDMI) 26@1920x1080(USB)	1x1	0.036ms~4s

Interface & Button Functions	
	HDMI
	HDMI Output
	USB Mouse
	USB Mouse for the Ctrl of the HDMI Mode
	USB Video
	USB Video for the PC
	LED
	Power On Indicator
	SD
	SD Card Slot
	DC12V
	12V/1A Power in
	ON/OFF
	Power On/Off Switch
Other Specification for HDMI Output	
UI Operation	With USB Mouse for HDMI Mode Control
Image Capture	High Speed in SD Card(8G)
Video Record	1080P 26fps in SD Card(8G)
Camera Control Panel	Including Exposure, Gain, White Balance, Color Adjustment and Sharpness Control
Toolbar	Including Zoom, Mirror, Comparison, Freeze, Cross, Browser Function
Other Specification for USB Output	
White Balance	Auto White Balance, Manual White Balance and ROI White Balance
Color Technique	Ultra-Fine Color Engine (USB2.0)
Capture/Control SDK	Standard UVC for Windows/Linux/Mac(USB2.0)
Recording System	Still Picture or Movie (HDMI or USB)
Software Environment (for USB2.0 Connection)	
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
	USB Port: USB2.0 High-speed 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 12V/2A Adaptor
Overall Dimensions	
Width x Depth x Height	78 mm (3.07") x 70 mm (2.76") x 92mm (3.62")
Shipping Weight	0.47 kg (1.0lbs)

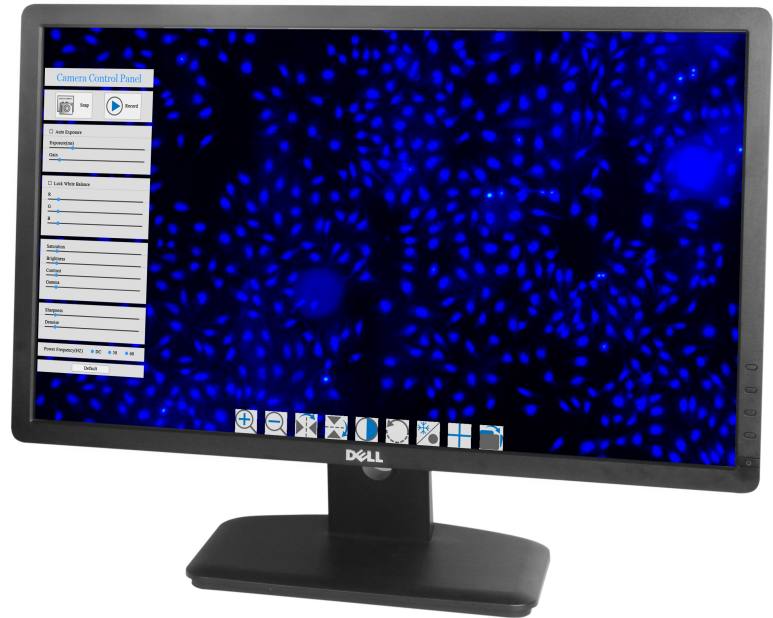
ALPHA1080 Series Camera and Microscope



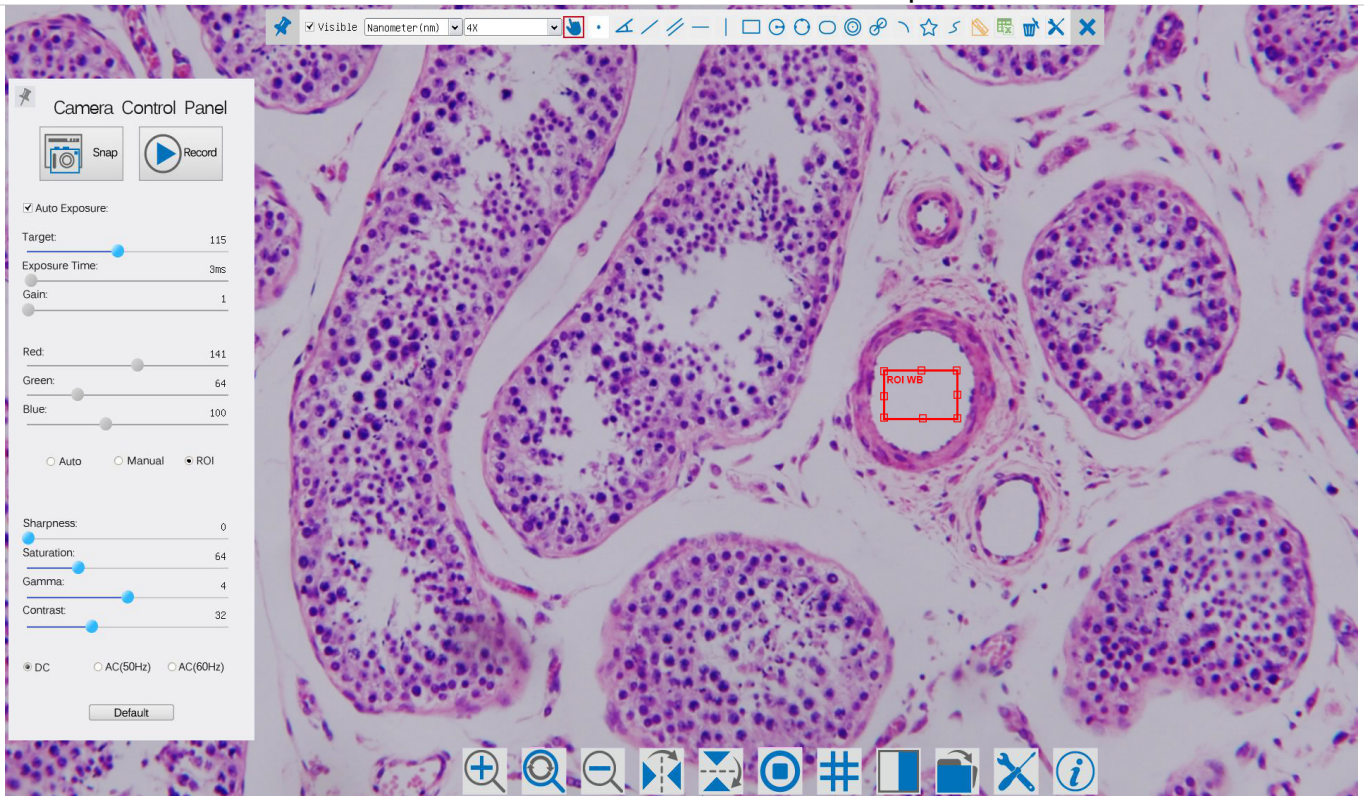
Front View of the ALPHA1080 Series Camera



Back View of the ALPHA1080 Series Camera



The ALPHA1080 Series Camera and Microscope



UI of the ALPHA1080 Series Camera

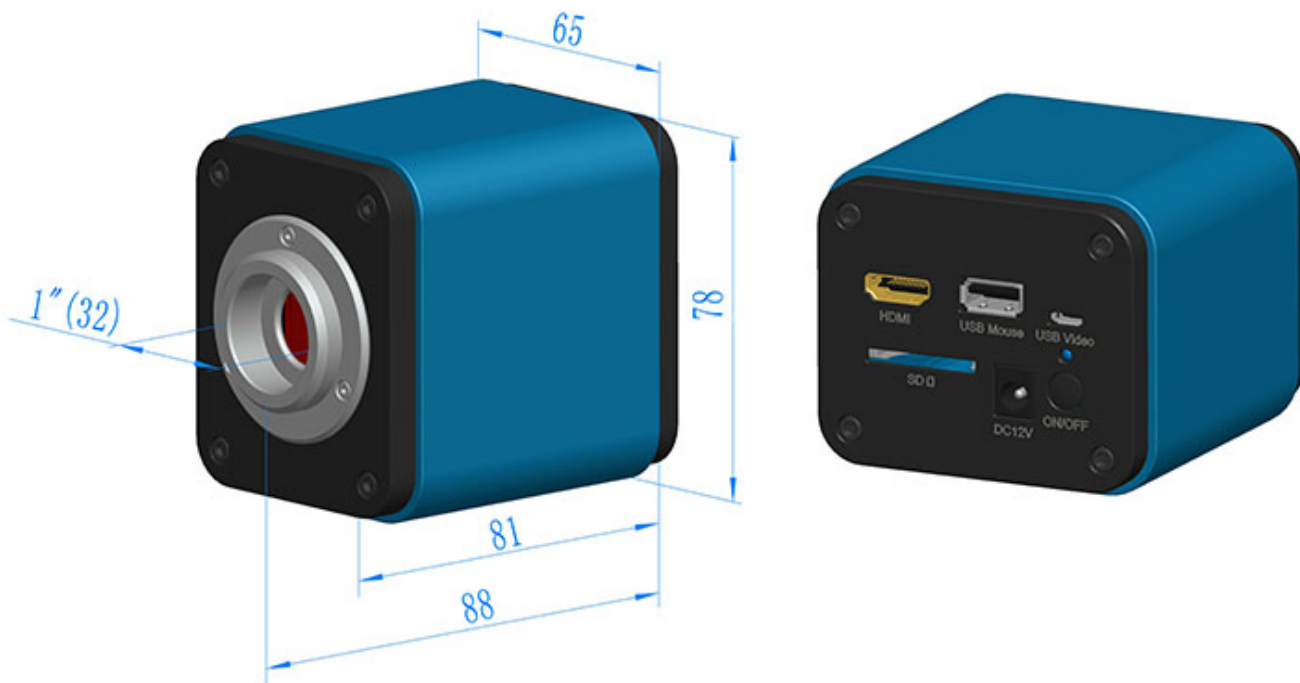
Potential Application

- 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);

ALPHA1080 Series C-mount HDMI+USB CMOS Camera Dimension

Installation drawings(Click to enlarge). The ALPHA1080 series HDMI CMOS camera body, made from tough, CNC aluminium alloy, ensures a heavy duty, workhorse solution. The camera is designed with a high quality IR-CUT to protect the camera sensor. No moving parts included. This design ensures a rugged, robust solution with an increased lifespan when compared to other industrial camera solutions.



Dimension for ALPHA1080 Series HDMI+USB C-mount CMOS Camera

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