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XCAM1080PHB/PHD/PHE C-mount HDMI+WIFI CMOS Camera

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

Simultaneous HDMI & WIFI 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 SDK for Windows/Linux/macOS/Android(USB);

CNC shell molding design;



Specification

XCAM1080PHB/PHD/PHE HDMI+WiFi+SD Card All in 1 CMOS Camera

XCAM1080PHB/PHD/PHE is a multiple interfaces (HDMI+WiFi+SD card, so X here means multiple interfaces) CMOS camera and it adopts ultra-high performance Sony CMOS sensor as the image-picking device. HDMI+WiFi are used as the data transfer interface to HDMI display or computer.

For HDMI output, The XCamView will be loaded and a camera control panel and toolbar are overlaid on the HDMI screen, in this case, the USB mouse can be used to set the camera, browse and compare the captured image, play the video ital.

For WiFi output, unplug the mouse and plug in the USB WiFi adapter, connect the computer WiFi to the camera, then the video stream can be transfer to computer with the advanced software ToupView. With ToupView, you can control the camera, process the image as ToupTek's other USB series camera.

Order Code	Sensor & Size(mm)	Pixel(μm)	G Sensitivity Dark Signal	FPS/Resolution	Binning	Exposure
XCAM1080PHB	1080P/5M/	2.4x2.4	425 mv with 1/30s	30@1920x1080	1x1	0.03ms~918ms

XP1080B	Sony IMX178(C) 1/1.8"(6.22x4.67)		0.15 mv with 1/30s	(HDMI) 25@1920x1080 (WiFi)		
XCAM1080PHD XP1080D	1080P/2M/ Sony IMX185(C) 1/1.9"(7.20x4.05)	3.75x3.75	1120 mv with 1/30s 0.15 mv with 1/30s	30@1920x1080 (HDMI) 25@1920x1080 (WiFi)	1x1	0.06ms~918ms
XCAM1080PHE XP1080E	1080P/2M/ Sony IMX249(C,GS) 1/1.2"(11.25x6.33)	5.86x5.86	1016 mv with 1/30s 0.15 mv with 1/30s	30@1920x1080 (HDMI) 25@1920x1080 (WiFi)	1x1	0.043ms~1000ms

GS: Global Shutter, C:Color

Interface & Button Functions	
	USB
	USB Camera or USB Mouse
	HDMI
	HDMI Output
	DC12V
	12V Power in
	SD
	SD Card Slot
	ON/OFF
	Power On/Off Switch
	LED
	Power On Indicator
Other Specification for HDMI Output	
UI Operation	With USB Mouse
Image Capture	JPEG Format with 5M Resolution (2592*1944) in SD Card(8G) (XAM1080PHB) JPEG Format with 2M Resolution in SD Card (XCAM1080PHD/PHE(Global Shutter for PHE))
Video Record	ASF Format 1080P 30fps in SD Card
Camera Control Panel	Including Exposure, Gain, White Balance, Color Adjustment, Sharpness and Denoising Control
Toolbar	Including Zoom, Mirror, Comparison, Freeze, Cross, Browser Function
Other Specification for WiFi Output	
UI Operation	ToupView or ToupLite on Windows/Linux/OSX/Android Platform
WiFi Performance	802.11n 150Mbps; RF Power 20dBm(Maximum)
Maximum Connected Devices	3~6(According to the Environment and Connection Distance)
White Balance	Auto White Balance
Color Technique	Ultra-Fine Color Engine (WiFi)
Capture/Control SDK	Windows/Linux/macOS/Android Multiple Platform SDK(Native C/C++, C#/VB.NET, Python, Java, DirectShow, Twain, etc) (WiFi)
Recording System	Still Picture or Movie (WiFi)
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)

HDMI Camera and Microscope



Front View of the XCAM1080PHB/PHD/PHE Camera



Back View of the XCAM1080PHB/PHD/PHE Camera



Normal View



Side View

The XCAM01080PHB/XCAM01080PHD/PHE and Microscope



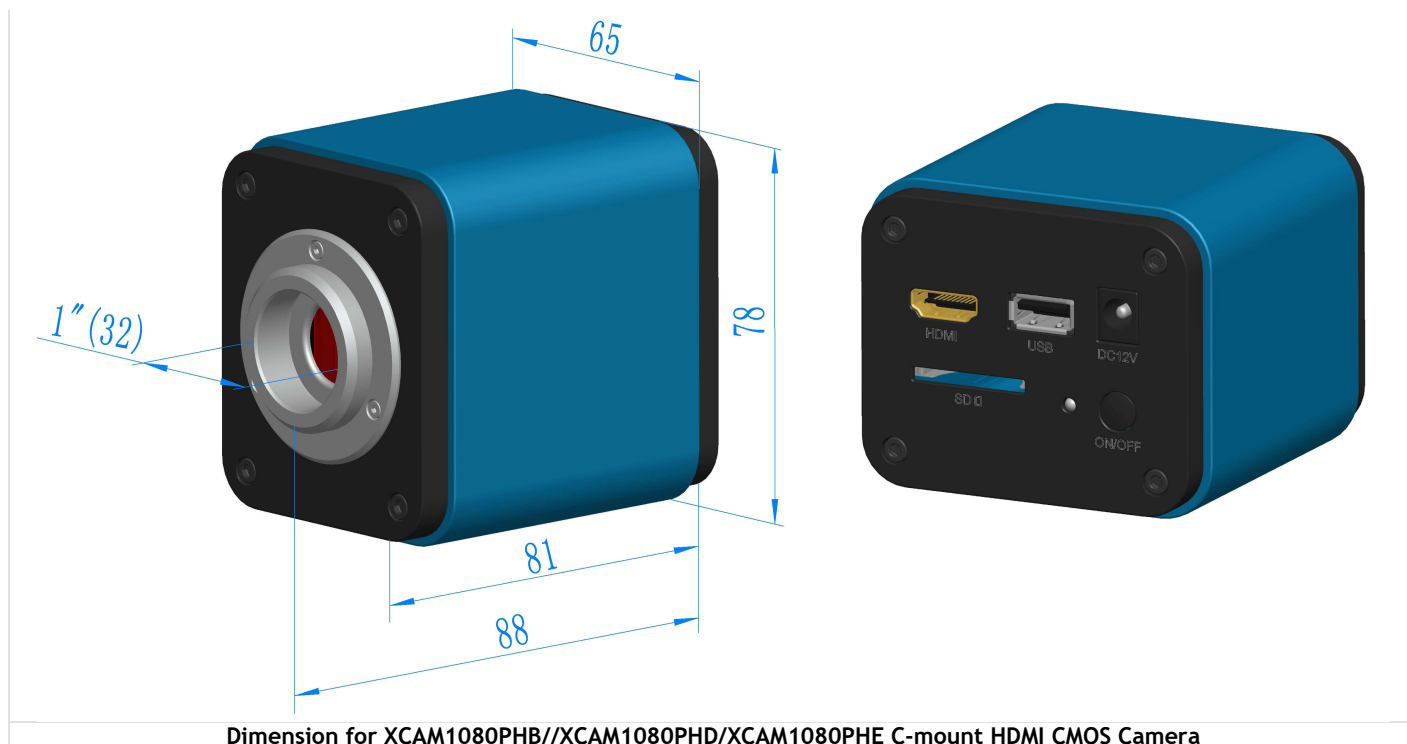
UI of the XCAM01080PHB//XCAM01080PHD/XCAM01080PHE Camera

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);

XCAM01080PHB/PHD/PHE C-mount HDMI+WiFi CMOS Camera Dimension

Installation drawings(Click to enlarge). The XCAM01080PHB//XCAM01080PHD HDMI CMOS camera body, made from tough, 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. These measures ensure a rugged, robust solution with an increased lifespan when compared to other industrial camera solutions.



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