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## XCAM4K Series HDMI/NETWORK/USB Outputs C-mount CMOS Camera

Sony Exmor CMOS sensor

4K HDMI/LAN/WLAN/USB multiple video outputs

4K/1080P auto switching according to the display resolution

SD card/USB flash disk for the captured image and video storage

Embedded XCAMView for the control of the camera

With strong ISP and other related processing functions

ToupView/ToupLite software for PC

iOS/Android applications for smart phones or tablets

Windows/Linux/macOS/Android multiple platforms SDK;

### Specification

## XCAM4K Series HDMI/LAN/WLAN/USB Multi-outputs C-mount CMOS Camera(3)

The XCAM4K series camera is the next-generation live-view imaging-system with 4K resolution(Video) at 60 FPS. It comes with Sony Exmor CMOS sensor with high sensitivity, low dark current and no smear achieved through the adoption of R, G and B primary color mosaic filters.

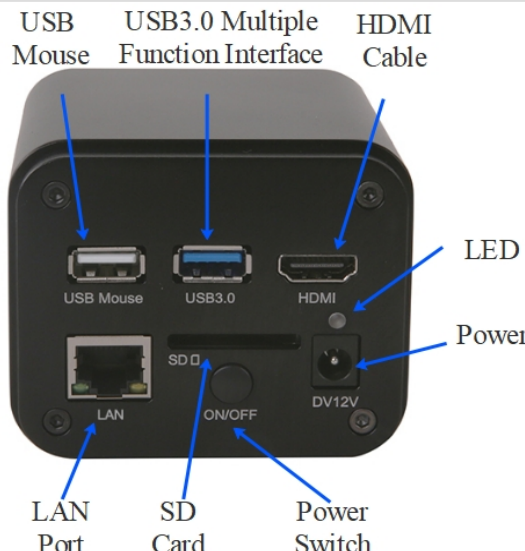
The camera uses a standard C-mount interface for maximum compatibility with various microscopy-systems. It can be used as a stand-alone recorder when used with an HDMI monitor or television, or live-streamed to a PC via Gigabit Ethernet (LAN) for image-capture and video-recording.

Hardware 3D denoising, sharpness and tone mapping control functions greatly improve the image and video quality.

The included Windows software offers image-development and measurement tools, as well as advanced compositing features such as image-stitching and extended-depth-of-focus. With the ability to calibrate scales at multiple magnifications, the software can be used for multi-level inspection. For Mac and Linux, there is a lite version of the software which can capture video and still images, and includes limited processing features.

The HDMI 4K series camera is intended to be used for the acquisition of digital images from the stereo microscope, biological microscope or online interactive teaching.

Order Code	Sensor & Size(mm)	Pixel(μm)	G Sensitivity Dark Signal	FPS/Resolution	Binning	Exposure
XCAM4K8MPA XP4K8MA	4K/Sony IMX334(C) 1/1.8"(7.68x4.32)	2.0x2.0	505 mv with 1/30s 0.13 mv with 1/30s	60@3840*2160(HDMI) 30@3840*2160(NETWORK) 30@3840*2160(USB)	1x1	0.04ms~2000ms
XCAM4K8MPB XP4K8MB	Sony IMX485(C) 1/1.2"(11.14x6.26)	2.9x2.9	2188mv with 1/30s 0.39mv with 1/30s	60@3840*2160(HDMI) 30@3840*2160(NETWORK) 30@3840*2160(USB)	1x1	0.04ms~2000ms
XCAM4K16MPA	4K/Sony IMX183(C)	2.4x2.4	461 mv with 1/30s	30@3840x2160(HDMI)	1x1	0.04ms~2000ms

Interface & Button Functions	
	<b>USB Mouse</b> Connect USB mouse for easy operation of the embedded XCamView software
	<b>USB3.0</b> Connect USB flash disk for image or video storage; Connecting 5G WLAN adapter as WLAN camera in AP or STA mode;
	<b>HDMI</b> Comply with HDMI2.0 standard. 4K/1080P format video output and supporting auto switching between 4K and 1080P format according to the connected display resolution
	<b>LAN</b> Gigabit Ethernet port to connect to the peripheral for the video streaming
	<b>SD</b> Comply with SDIO3.0 standard and SD card could be inserted for the images or videos storage
	<b>DC12V</b> Power adapter connection (12V)
	<b>ON/OFF</b> Power Switch
	<b>LED</b> Camera status indicator
Other Specification for HDMI Output	
UI Operation	With USB Mouse
Image Capture	8M (3840*2160) JPEG Image in SD Card or USB Flash Disk 16M (5440*3060) JPEG Image in SD Card or USB Flash Disk
Video Record	Video Format: 8M(3840*2160) H264 Encoded MP4 Format Video Recording Frame Rate: 50~60FPS(XCAM4K8MPA), 26~30FPS(XCAM4K16MPA)(related with the SD card speed class and video resolution)
Camera Control Panel	Including Exposure, Gain, White Balance, Color Adjustment, Sharpness and Denoising Control
Toolbar	Including Zoom, Mirror, Comparison(Video-image, image-image, Freeze, Cross, Browser Function
Other Specification for GE Output	
White Balance	Auto/Manual/ROI White Balance
Color Technique	Ultra-Fine Color Engine (USB)
Capture/Control SDK	Windows/Linux/macOS/Android Multiple Platform SDK(Native C/C++, C#/VB.NET, Python, Java, DirectShow, Twain, etc)
Recording System	Still Picture or Video
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
	Ethernet Port: RJ45 Ethernet 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	98.3 mm (3.87") x 65 mm (2.56") x 78mm (3.07")
Shipping Weight	0.47 kg (1.0lbs)

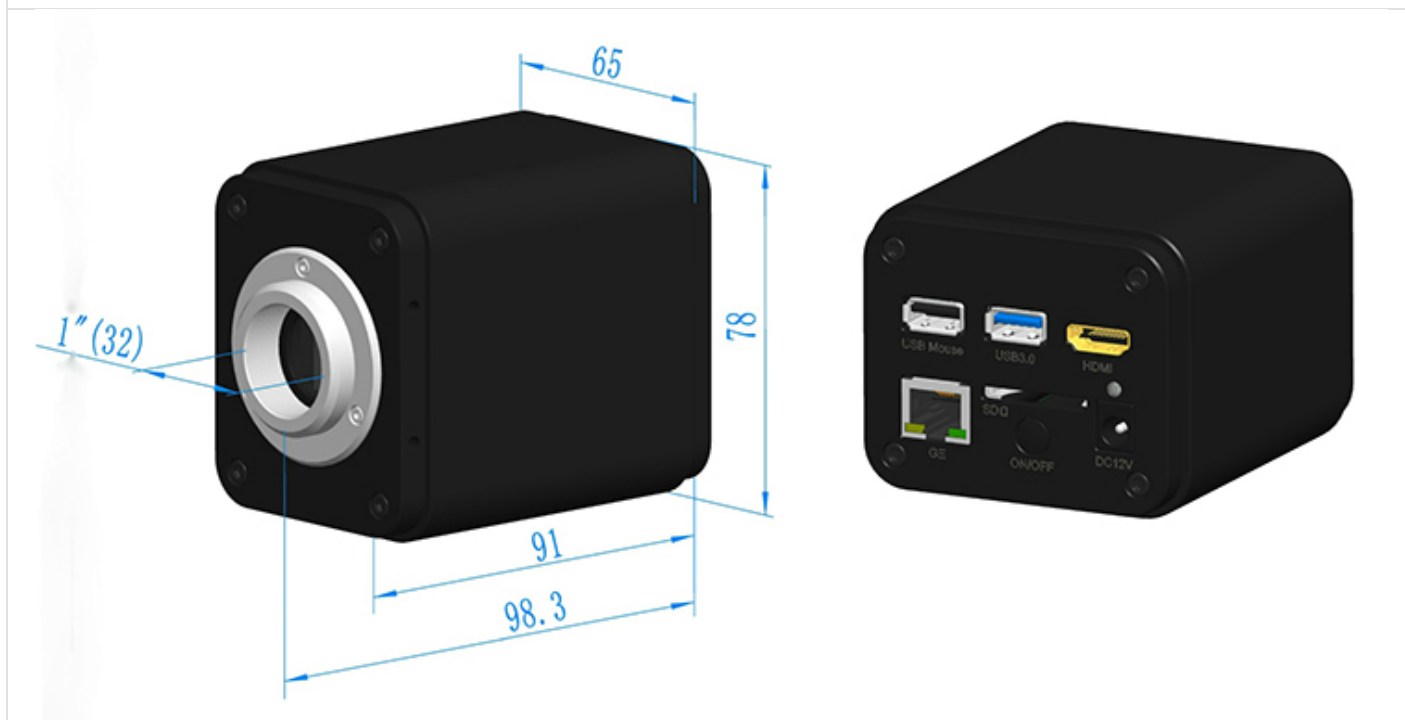
## Potential Application

- 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);

## XCAM4K Series C-mount CMOS Camera Dimension

Installation drawings(Click to enlarge). The XCAM4K series 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.



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