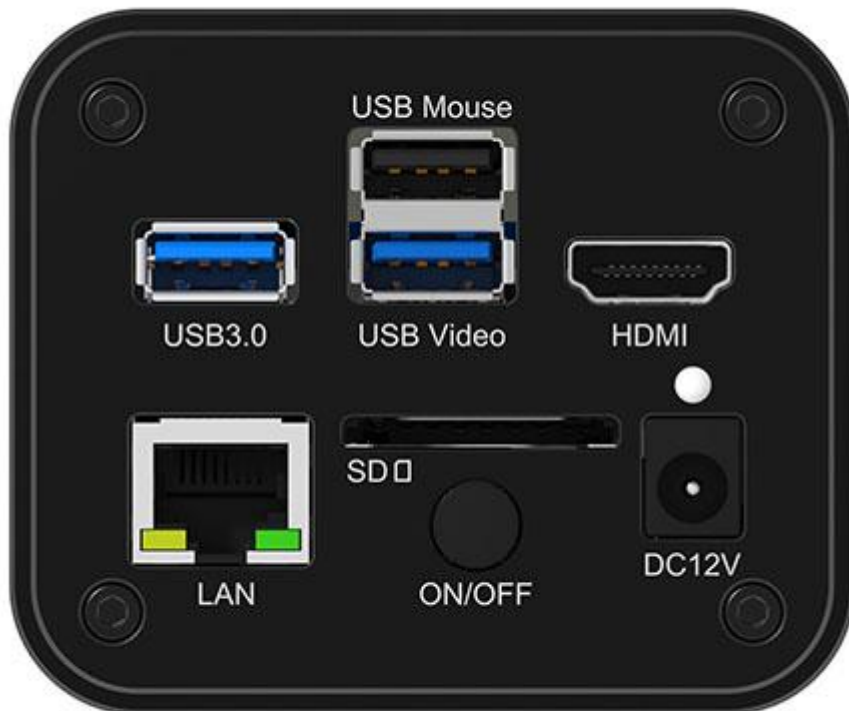


TP-X7CAM4K



TP-X7CAM4K Series HDMI/NETWORK/USB 3.0 WiFi Outputs C-mount CMOS Camera

- Sony STARVIS 2 back-illuminated CMOS sensor
- 4K HDMI/ NETWORK/ USB multiple video synchronous outputs
- 4K/1080P auto switching according to monitor resolution
- High frame rate output, supporting up to 4K 75fps
- Support 4K 60fps low delay HDMI output mode, with an average delay of 40ms
- Save onboard to SD card or to USB memory stick
- Attachable 4K HDMI screen 13.3"(338mm)
- Inbuilt software XCAMView for mouse control
- The TP- X7CAM4K series camera body, made from tough, CNC aluminium alloy, ensures a heavy duty, workhorse solution.

Interface or Button	Function Description
USB Mouse	Connect USB mouse for easy operation with embedded XCamView software
USB3.0	Connect USB flash drive to save pictures and videos
USB Video	Connect 5G WiFi module to transfer video wirelessly in real time
HDMI	Connect PC or other host device to realize video image transmission
LAN	Comply with HDMI2.0 standard. 4K/1080P format video output and supporting automatic switch between 4K and 1080P format according to the connected monitors
SD	LAN port to connect router and switch to transfer video
ON/OFF	Comply with SDIO3.0 standard and SD card could be inserted for video and images saving
LED	Power switch
DC12V	LED status indicator
Video Output Interface	Power adapter connection (12V/1A)
HDMI Interface	Function Description
LAN Interface	Comply with HDMI2.0 standard
WLAN Interface	60fps@4K or 60fps@1080P
USB Video Interface	support real time resolution switching(4K/1080P/720P)
Other Function	H264 encoded video
Video Saving	DHCP configuration or manual configuration
Image Capture	Unicast/multicast configuration
Measurement Saving	Connecting 5G WLAN adapter (USB3.0 slot) in AP/STA mode
ISP	Connecting USB Video port of PC for video transfer
Image Operation	H264/MJPEG format video
Embedded RTC(Optional)	Function Description
Restore Factory Settings	Video format : 8M(3840*2160) H264/H265 encoded MP4 file
Multiple Language Support	Video saving frame rate:72fps(X7CAM4K8MPA); 75fps(X7CAM4K8MPB); 60fps in low delay mode
Software Environment	8M (3840*2160) JPEG/TIFF image in SD card or USB flash drive(Default SD card priority, priority can be modified in settings)
White Balance	Measurement information saved in different layer with image content
Color Technique	Measurement information is saved together with image content in burn in mode
Capture/Control SDK	Exposure(Automatic / Manual Exposure) / Gain, White Balance(Manual / Automatic / ROI Mode), Sharpening, 3D De-noise, Saturation Adjustment, Contrast Adjustment, Brightness Adjustment, Gamma Adjustment, Colour to Gray, 50HZ/60HZ Anti-flicker Function
Recording System	Zoom In/Zoom Out(Up to 10X), Mirror/Flip, Freeze, Cross Line, Compare(Comparison between real time video and images in SD card or USB flash drive), Embedded Files Browser, Video Playback, Measurement Function
Operating System	To support accurate time on board
	Restore camera parameters to its factory status
	English / Simplified Chinese / Traditional Chinese / Korean / Thailand / French / German / Spanish / Japanese / Italian / Russian / Dutch / Portuguese
	under LAN/WLAN/USB Video Output
	Auto White Balance
	Ultra-Fine Color Engine
	Windows/Linux/macOS/Android Multiple Platform SDK(Native C/C++, C#/VB.NET, Python, Java, DirectShow, Twain, etc)
	Still Picture or Movie
	Microsoft® Windows® XP / Vista / 7 / 8 / 8.1 /10 /11(32 & 64 bit)
	OSx(Mac OS X)
	Linux

CPU: Equal to Intel Core2 2.8GHz or Higher

Memory: 4GB or More

PC Requirements 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/1A Adapter

- SD card/USB flash drive for captured image and video storage, support local preview and playback
- New browsing function, providing rich file operations
- Excellent ISP with local tone mapping and 3D de-noising
- Provide two sets of default ISP parameters for biological and stereo microscope
- Embedded XCamView for the control of the camera control, image processing and measurements
- ImageView/ToupLite software for PC
- iOS/Android applications for smart phones or tablets

X7CAM4K Series HDMI/NETWORK/USB Multi-outputs C-mount CMOS Camera(2)

The X7CAM4K 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
X7CAM4K8MPA	Sony IMX678(C) 1/1.8"(7.68x4.32)	2.0x2.0	1364mv with 1/30s 0.1mv with 1/30s	72@3840*2160	1x1	0.019~1000
X7CAM4K8MPB	Sony IMX585(C) 1/1.2"(11.14x6.26)	2.9x2.9	1028mv with 1/30s 0.39mv with 1/30s	75@3840*2160	1x1	0.048~1000

Camera Model	Video Saving(FPS/Resolution)	HDMI2.0(FPS/Resolution)	USB3.0(FPS/Resolution)	NETWORK(FPS/Res)
X7CAM4K8MPA	72@3840*2160	60@3840*2160 60@1920*1080	30@3840*2160 45@2688*1512 60@1920*1080	30@3840*2160 60@1920*1080 72@1280*720
X7CAM4K8MPB	75@3840*2160	60@3840*2160 60@1920*1080	30@3840*2160 45@2688*1512 60@1920*1080	30@3840*2160 60@1920*1080 75@1280*720

Potential Applications:

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);

Dimension of X7CAM4K Series



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