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XCAMLITE1080P Series HDMI C-mount CMOS Camera

Sony Starvis back illuminated CMOS sensor

FHD HDMI video outputs

SD card for the captured image and video storage

Embedded XCamView for the control of the camera

With strong ISP and other related processing functions



Specification

XCAMLITE1080P Series HDMI C-mount CMOS Camera(1)

The XCAMLITE1080P series camera is intended to be used for the acquisition of digital images from the stereo microscope and biological microscope with HDMI interface.

Order Code	Sensor & Size(mm)	Pixel(μm)	G Sensitivity Dark Signal	FPS/Resolution	Binning	Exposure
XCAMLITE1080PA XPLITE1080PA	Sony IMX307(C) 1/2.8"(5.57x3.13)	2.9x2.9	1300mv with 1/30s	60@1920*1080(HDMI)	1x1	0.01~1000



Interface or Button	Function Description
HDMI	Comply with HDMI1.4 standard. 1080P format video output for standard FHD monitor
LED	LED status indicator
USB Mouse	Connect USB mouse for easy operation with embedded XCamView software
DC12V	Power adapter connection (12V/1A)
SD	Comply with SDIO3.0 standard and SD card could be inserted for video and images storage
Video Output Interface	Function Description

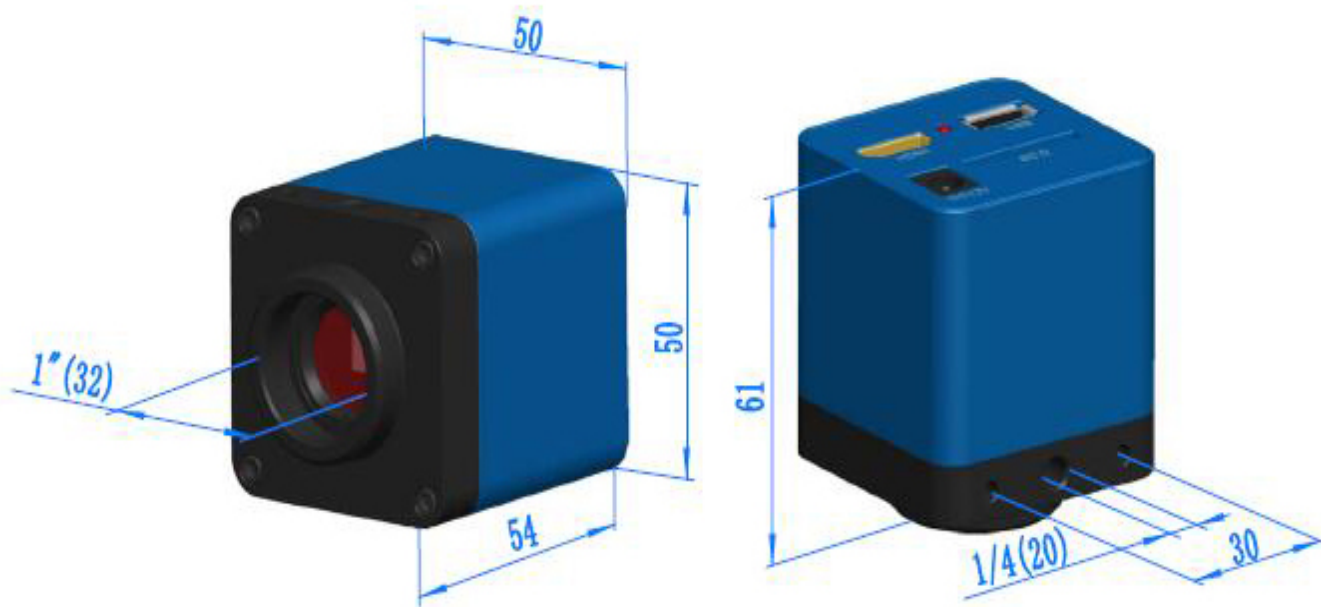
HDMI Interface	Comply with HDMI1.4 standard; 60fps@1080P
Other Function	Function Description
Video Saving	Video format: 2M(1920*1080) H264 encoded MP4 file
Image Capture	Video saving frame rate: 50~60fps (related with SD card performance)
Measurement Saving	2M (1920*1080) JPEG image in SD card
ISP	Measurement information saved in different layer with image content Measurement information is saved together with image content in burn in mode Exposure(Automatic / Manual Exposure) / Gain, White Balance(Manual / Automatic / ROI Mode), Sharpening, 3D Denoise, Saturation Adjustment, Contrast Adjustment, Brightness Adjustment, Gamma Adjustment, Color to Gray, 50HZ/60HZ Anti-flicker Function
Image Operation	Zoom In/Zoom Out, Mirror/Flip, Freeze, Cross Line, Overlay, Embedded Files Browser, Video Playback, Measurement Function
Embedded RTC(Optional)	To support accurate time on board
Restore Factory Settings	Restore camera parameters to its factory status
Multiple Language Support	English / Simplified Chinese / Traditional Chinese / Korean / Thai / French / German / Japanese / Italian / Russian
Operating Environment	
Operating Temperature (in Centidegree)	-10° ~ 50°
Storage Temperature (in Centidegree)	-20° ~ 60°
Operating Humidity	30~80%RH
Storage Humidity	10~60%RH

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);

Dimension of XCAMLITE1080P Series

Installation drawings(Click to enlarge). The XCAMLITE1080P 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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