

XCAM4K8MPA Specification

1 Camera Parameters

Sensor Model / Size(mm)	Pixel Size(μm)	G Sensitivity Dark Current	Resolution/FPS	Binning	Exposure Time
Sony IMX334(C) 1/1.8"(7.68x4.32)	2.0x2.0	505mv with 1/30s 0.1mv with 1/30s	3840*2160/60fps	1x1	0.04ms~1000ms

2 Interface Description



Interface	Function Description
USB Mouse	Connect USB mouse for easy operation with embedded XCamView software.
USB3.0	<ol style="list-style-type: none"> 1. Connect USB flash drive to save pictures and videos. 2. Connect 5G WiFi modules to transfer video wirelessly in real time (Nor supported yet and will be supported in near future by updating firmware); 3. Connect computer with USB connection to transfer video in real time (Nor supported yet and will be supported in near future by updating firmware);
HDMI	Comply with HDMI2.0 standard. 4K/1080P format video output and supporting automatic switch between 4K and 1080P format according to the connected monitors. ,
GE	Gige Ethernet port to connect router and switch to transfer video.
SD	Comply with SDIO3.0 standard and SD card could be inserted for video and images saving. .
DC12V	Power Adapter Connection(12V).
ON/OFF	Power Switch.
LED	Power Indicator LED.

3 Function Description

3.1 Video Output

Video Output Interface	Function Description
HDMI Interface	<ol style="list-style-type: none"> 1. Comply with HDMI2.0 standard; 2. 60fps@4K or 60fps@1080P;
GE Interface	<ol style="list-style-type: none"> 1. 60fps@4K resolution; 2. H264 encoded video; 3. Bandwidth adjustment in real time; 4. unicast/mulicast configuration;

	5. DHCP configuration or manual configuration;
WLAN Interface	Connecting 5G WiFi module via USB3.0 port (AP/STA mode switch, not supported yet and will be supported in near future by updating firmware).
USB3.0 Interface	1. Connecting USB3.0 port of PC for video transfer (not supported yet and will be supported in near future by updating firmware). 2. MJPEG format video.

3.2 Image Capture and Video Saving in SD card

Function Name	Function Description
Video Saving	1. Video format: 8M(3840*2160) H264 encoded MP4 file; 2. Video saving frame rate: 50~60fps(related to speed level or SD card and resolution of the video);
Image Capture	8M (3840*2160) JPEG image.
Measurement Saving	1. Measurement information saved in different layer with image content. 2. Measurement information is saved together with image content in burn in mode.

3.3 ISP Function

Function Name	Function Description
Exposure / Gain	Automatic / Manual Exposure
White Balance	Manual / Automatic / ROI Mode
Sharpening	Supported
3D Denoise	Supported
Saturation Adjustment	Supported
Contrast Adjustment	Supported
Brightness Adjustment	Supported
Gamma Adjustment	Supported
50HZ/60HZ Anti-flicker Function	Supported

3.4 Image Operation Function

Function Name	Function Description
Zoom In/Zoom Out	Up to 10X
Mirror/Flip	Supported
Freeze	Supported
Cross Line	Supported
PIP (Picture in Picture)	Supported
Compare	Comparison between real time video and images in SD card or USB flash drive
Embedded Files Browser	Supported
Video Playback	Supported
Measurement Function	Supported

3.5 Other Functions

Function Name	Function Description
Embedded RTC(Optional)	To support accurate time on board
Restore Factory Settings	Supported
Multiple Language Support	English / Simplified Chinese / Traditional Chinese / Korea / Thai / French / German / Japanese / Italian

4 Package Information

- XCAM4K8MPA Camera with Protective Cap;
- HDMI 2.0 Cable(HDMI 2.0,1.5m);
- SD Card (16GB);
- USB Mouse;
- Power Adapter(1A,12V);
- CD (Software and Camera Help Manual inside);