



CAMERA SCOP-AIOCAM4K SERIES





Product Introduction

AIOCAM4K is a multifunctional integrated camera that combines a 13.3-inch display screen with a 4K image acquisition and processing system. It can be directly used for video and image capture with stereoscopic microscopes or biological microscopes without requiring a computer, and can also form an interactive microscopy teaching system through Wi-Fi wireless networking to facilitate teaching and student learning.

Product Features

- Camera and display integrated together, eliminating cables for convenient installation
- Sony Starvis 2 back-illuminated CMOS sensor
- Display output with average latency of 40 ms
- Supports HDMI2.0 interface connection to external display for simultaneous output, 4K/1080P HDMI output adaptive switching
- Supports USB3.0 interface simultaneous real-time video output
- USB flash drive saves captured videos or images with local preview and playback support
- Supports capture and display of RAW format images
- Supports automatic upload of captured photos to server via network
- Supports USB voice control module for real-time voice command control of camera photo, video, and freeze operations
- Brand new browse interface provides rich file operation functions: image-to-image comparison, image-to-live-video comparison, multi-image depth-of-field stacking, multi-image stitching
- Powerful ISP functions with remarkable sharpening and 3D noise reduction effects, more precise ROI white balance
- Provides real-time video depth-of-field stacking function and real-time video WDR output function
- Provides real-time stitching function to obtain higher quality images through real-time processing
- Provides biological and stereoscopic microscope default ISP parameter switching for convenient secondary adjustment and optimization
- Embedded XCamView software provides rich image processing and measurement functions, supports automatic edge detection and automatic measurement
- ToupView/ToupLite software for more convenient PC operation
- iOS/Android mobile applications, free download from app stores



Order Code	Sensor & Size(mm)	Effective Pixels	Output Resolution
AIOCAM4K8MPA	4K/Sony IMX678(C) 1/1.8" (7.68x4.32mm)	2.0x2.0μm	8MP

Frame Rate (FPS)	Output Interface	Lens Mount	Storage Support
60 Fps @ 3840x2160	HDMI ; USB3 ; Wi-Fi	C-Mount	USB Flash Drive

Featured Functions

- 13,3-inch display screen integration
- Low latency approximately 40ms
- HDMI2.0 4K/1080P adaptive output
- USB3.0 Real-time output
- Wi-Fi AP/STA mode
- RAW Image capture
- Voice control for photography/video/recording/freeze
- Real-time depth of field synthesis/WDR/stitching
- ROI White balance and 3D noise reduction
- Built-in XCamView measurement and image processing

AIOCAM4K All-in-One Camera with Display | Package List

Standard Items in the Box

A Camera packaging box: 35.6 cm × 24.9 cm × 7.5 cm (1 pc, approx. 1.68 kg/box)

B AIOCAM4K all-in-one camera ×1

C Power adapter: input AC 100–240 V 50/60 Hz; output DC 12 V 2 A
US version: model POWER-12V2A (MX24Z1-1202000) + US plug
EU version: model POWER-12V2A (MX24Z1-1202000) + EU plug

D USB wireless mouse ×1

E USB 3.0 A↔A gold-plated data cable (1.5 m)

Optional Accessories

F Voice control module (Chinese or English)

G HDMI 2.0 cable

H USB flash drive

I USB wireless network adapter (required for Wi-Fi mode; appearance varies by model)



