

# STALWART

**C-mount 4K UHD HDMI Color  
Digital Camera  
SWHC-4K16MPA**



## Description

SWHC-4K16MPA 4K UHD HDMI/GigE/WiFi Multi-outputs Digital Camera(With Sony IMX183(C) Sensor) is the next-generation live-view imaging-system with 4K resolution at 60/30 FPS.

## Features

- Sony Exmor CMOS sensor;
- 4K HDMI/GE/WLAN 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 mouse, no shaking;
- With strong ISP and other related processing functions;
- ImageView software for PC;
- iOS/Android applications for smart phones or tablets.

## Specification

Order Code	Sensor & Size(mm)	Pixel(μm)	G Sensitivity Dark Signal	FPS/Resolution	Binning	Exposure
SWHC-4K16MPA	Sony IMX183(C) 1/1.06"(13.06×7.27)	2.4×2.4	1847mv with 1/30s 0.84mv with 1/30s	30@3840*2160(HDMI) 30@1920*1080(HDMI) 30@3840*2160(WiFi,GE)	1×1	0.04ms~2000ms

C: Color; M: Monochrome;

## Interface & Button Functions

USB Mouse	Connect USB mouse for easy operation of the embedded XCAMView software
USB3.0	Connecting USB flash disk for image or video storage; Connecting 5G WLAN adapter as WLAN camera in AP or STA mode;
HDMI	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
GE	Gigabit Ethernet port to connect to the PC for the video streaming
SD	Comply with SDIO3.0 standard and SD card could be inserted for the images or videos storage

	DC12V	Power adapter connection (12V)
	ON/OFF	Power switch
	LED	Camera status indicator

### Other Specification for HDMI Output

UI Operation	With USB Mouse
Image Capture	16M (5440*3060) JPEG Image in SD Card or USB Flash Disk(SWHC-4K16MPA)
Video Record	Video Format: 8M(3840*2160) H264 Encoded MP4 Format (SWHC-4K16MPA) Video Recording Frame Rate: 50~60FPS,26~30FPS(SWHC-4K16MPA) (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
Capture/Control API	Standard GE API for Windows/Linux/Mac
Recording System	Still Picture or Video

## Software Environment

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 Centigrade)	-10°~ 50°
Storage Temperature (in Centigrade)	-20°~ 60°
Operating Humidity	30~80%RH
Storage Humidity	10~60%RH
Power Supply	DC 12V/1A Adapter

## Application

- Scientific research, digital teaching (teaching, demonstration and academic discussing);
- Digital laboratory, medical research;
- Machine vision (PCB detection, IC quality control);
- Medical treatment (pathological observation);
- Food (microbial colony observation and counting);
- Aviation and military.