STALWART

C-mount WIFI+HDMI CMOS Color Digital Camera
SWHC-1080 Series

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Introduction

SWHC series cameras are multiple interfaces (HDMI+WIFI+SD card) CMOS cameras and they adopt ultra-high performance Sony CMOS sensor as the image capture device. HDMI+WIFI are used as the data transfer interface to HDMI display or computer.

For HDMI out, The XCamView software will be loaded and a camera control panel and toolbar are displayed on the HDMI screen, in this case, the USB mouse can be used to control the camera, browse and compare the captured image, play back the video.

For WIFI out, unplug the mouse and plug in the USB WIFI adapter, connect the computer WIFI to the camera, then the video stream can be transferred to computer with the advanced software ImageView. With ImageView, you can control the camera, process the image as other USB series camera.

Features

- All in 1(HDMI+WIFI) C-mount camera with Sony high sensitivity CMOS sensor;
- For HDMI application, with built-in multiple-language XCamView software. The camera characteristic can be controlled by XCamView through the USB mouse. The other basic processing and choosing can also be realized by the XCamView.;
- 1920 × 1080 (1080P) resolutions to match the current high-definition displayer on the market; Support plug and play application;
- For HDMI application, 5.04M resolution image(2592*1944 SWHC-1080B) or 2.0M resolution image(1920*1080 SWHC-1080D/E) can be captured and saved for browsing; For video, 1080P video stream(asf format) can be captured and saved;
- With the USB WIFI adapter, the SWHC-1080B/D/E can be used as WIFI camera, the ImageView/ImageLite advanced image processing software is used to view the video and capture image, support plug and play application;
- Ultra-Fine color engine with perfect color reproduction capability(WIFI);
- With advanced video & image processing application ImageView, which including professional image processing such as 2D measurement, HDR, image stitching, EDF(Extended Depth of Focus), image segmentation & count, image stacking, color composite and denoising(USB).

Specification

Item	SWHC-1080B	SWHC-1080D	SWHC-1080E
Sensor & Size(mm)	12M/ICX834AQG© 1“ (13.15x8.77)	12M/ICX834ALG (M) 1“ (13.15x8.77)	9.0M/ICX814AQG © 1“ (12.47x9.98)
Pixel(μm)	3.1x3.1	3.1x3.1	3.69x3.69
G Sensitivity Dark Signal	420mv with 1/30s 15.2mv with 1/30s	420mv with 1/30s 12mv with 1/30s (F8.0)	580mv with 1/30s 12mv with 1/30s
FPS/Resolution	3.6@4248x2836 3.6@2124x1418	3.6@4248x2836 3.6@2124x1418	4.4@3388x2712 4.4@1694x1356
Binning	1x1, 2x2	1x1, 2x2	1x1, 2x2
Exposure	0.06ms~1h	0.06ms~1h	0.06ms~1h

Interface & Button Functions	
USB	USB Mouse/USB WIFI Adapter
HDMI	HDMI Out
DC12V	12V Power in
SD	SD Card Slot
ON/OFF	Power On/off Switch
LED	Power Indicator
Other Specification for HDMI Out	
UI Operation	With USB Mouse to Operate on the embedded XCamView
Image Capture	JPEG Format with 5M Resolution (2592*1944) in SD Card(16G) (SWHC-1080B) JPEG Format with 2M Resolution in SD Card(8G) (SWHC-1080D/E)
Video Record	ASF Format 1080P 30fps in SD Card(8G)
Camera Control Panel	Including Exposure, Gain, White Balance, Color Adjustment, Sharpness and Denoising Control
Toolbar	Including Zoom, Mirror, Comparison, Freeze, Cross, Browser Function, Muti-language and XCamView Version Information
Other Specification for WIFI Out	
UI Operation	ImageView or ImageLite on Windows/Linux/OSX/Android Platform
WIFI Performance	802.11n 150Mbps; RF Power 20dBm(Maximum)
Maximum Connected Devices	3~6(According to the Environment and Connection Distance)
White Balance	Auto White Balance
Color Technique	Ultra-FineTM Color Engine (WIFI)
Capture/Control API	Standard SDK for Windows/Linux/Mac(WIFI)
Recording System	Still Picture or Movie (WIFI)
Software Environment (for USB2.0 Connection)	
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
	USB Port: USB2.0 High-speed Port(As Power Only, not as the USB
	Data Transfer)
	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

SWHC-1080B/D can meet various applications and can be widely used in industrial inspection, education and research, materials analysis, precision measurement, medical analyses etc.

- 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).

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