



LC-9 Sony IMX178(C) 1/1.8"(6.22x4.67) C-mount WIFI+HDMI CMOS Camera

LC-9 Sony IMX178(C) 1/1.8"(6.22x4.67) C-mount WIFI+HDMI CMOS Camera has multiple interfaces (HDMI+WIFI+SD card) CMOS cameras and it adopts 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.

Labomed, Inc. • 2728 S La Cienega Blvd. Los Angeles, CA 90034 U.S.A. • 1(310) 202-0811 • spectro@labomed.com • www.labomed.com



APPLICATION

LC-9 Sony IMX178(C) 1/1.8"(6.22x4.67)
C-mount WIFI+HDMI CMOS Camera can meet various applications and can be widely used in industrial inspection, education and research, materials analysis, precision measurement, medical analyses etc.

The possible application of LC-9 Sony IMX178(C) 1/1.8"(6.22x4.67) C-mount WIFI+HDMI CMOS Camera is as follows:

- 1. Scientific research, education (teaching, demonstration and academic exchanges);
- 2. Digital laboratory, medical research;
- 3. Industrial visual (PCB examination, IC quality control);
- 4. Medical treatment (pathological observation);
- 5. Food (microbial colony observation and counting);
- 6. Aerospace, military (high sophisticated weapons).

FEATURES

The LC-9 Sony IMX178(C) 1/1.8"(6.22x4.67) C-mount WIFI+HDMI CMOS Cameras' basic characteristic is as follows:

- 1. All in 1(HDMI+WIFI) C-mount camera with Sony high sensitivity CMOS sensor;
- 2. 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.;





- 3.1920×1080 (1080P) resolutions to match the current high-definition displayer on the market; Support plug and play application;
- 4. For HDMI application, 5.04M resolution image(2592*1944) can be captured and saved for browsing; For video, 1080P video stream(asf format) can be captured and saved;
- 5. With the USB WIFI adapter, the **LC-9 Sony IMX178(C)** 1/1.8"(6.22x4.67) **C-mount WIFI+HDMI CMOS Camera** 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;
- 6. Ultra-Fine color engine with perfect color reproduction capability(WIFI);
- 7. 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

Model LC-9

Sensor & Size(mm) Sony IMX178(Color)

1/1.8"(6.22x4.67)

Pixel(μ m) 2.4*2.4

G Sensitivity 425mv with 1/30s
Dark Signal 0.15mv with 1/30s
FPS/Resolution 60/1920*1080(HDMI)

25/1920x1028(WIFI)

Binning 1x1

Exposure 0.03ms~918ms

Interface & Button Functions

USB WIFI Adapter

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HDMI **HDMI Out** DC12V 12V Power in SD SD Card Slot

ON/OFF Power On/off Switch Power Indicator LED

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(8G)

Video Record ASF Format 1080P 30fps in SD Card(8G)

Camera Control Panel Including Exposure, Gain, White Balance, Color Adjustment,

Sharpness and Denoising Control

Including Zoom, Mirror, Comparison, Freeze, Cross, Browser Function, Toolbar

Muti-language and XCamView Version Information

Other Specification for WIFI Out

ImageView or ImageLite on Windows/Linux/0SX/ **UI** Operation

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)

Microsoft® Windows® XP / Vista / 7 / 8 / Operating System

> 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 -10 ~ 50

(in Centidegree)

Storage Temperature -20~ 60

(in Centidegree)

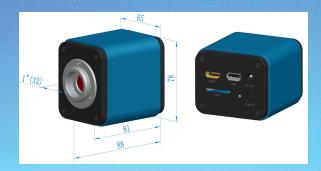
Operating Humidity $30 \sim 80\%$ RH Storage Humidity $10 \sim 60\%$ RH



XCamView UI for Mouse Control



DIMENSION



PACKING INFORMATION



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Standard Packing List

Gift box: L:25.5cm W:17.0cm H:9.0cm (1pcs, 1.43Kg/box)

В LC-9 Camera

C Power Adapter: Input: AC 100~240V 50Hz/60Hz, Out: DC 12V 1A

American standard: Model: GS12U12-P1I 12W/12V/1A: UL/CUL/BSMI/CB/FCC

EMI Standard: EN55022, EN61204-3, EN61000-3-2, -3, FCC Part 152 class B, BSMI CNS14338

EMS Standard: EN61000-4-2,3,4,5,6,8,11,EN61204-3,Class A Light Industry Standard

European standard:Model:GS12E12-P1I 12W/12V/1A; TUV(GS)/CB/CE/ROHS

EMI Standard:EN55022,EN61204-3, EN61000-3-2,-3, FCC Part 152 class B, BSMI CNS14338

EMS Standard: EN61000-4-2,3,4,5,6,8,11,EN61204-3,Class A Light Industry Standard

HDMI Cable D

Е **USB** Mouse

F High-speed USB2.0 A male to A male gold-plated connectors cable /2.0m

G CD (Driver & utilities software, Ø12cm)

Optional Accessory

н Adjustable lens adapter

C-Mount to Dia.23.2mm Eyepiece Tube

(Please choose 1 of them for your microscope)

Fixed lens Adapter

C-Mount to Dia.23.2mm Eyepiece Tube

(Please choose 1 of them for your microscope)



Note: For H and I optional items, please specify your camera type(C-mount, microscope camera), engineer will help you to determine the right microscope adapter for your application.

J 108015(Dia.23.2mm to 30.0mm Ring)/Adapter rings for 30mm eyepiece tube

K 108016(Dia.23.2mm to 30.5mm Ring)/ Adapter rings for 30.5mm eyepiece tube

L Calibration kit

106011/TS-M1(X=0.01mm/100Div.); 106012/TS-M2(X,Y=0.01mm/100Div.);

106013/TS-M7(X=0.01mm/100Div., 0.10mm/100Div.)

M SD Card(4G or 8G)