# LABOMED INC.

# LC-36

## 2.1 MP USB2.0 CMOS Eyepiece Camera

# LC-36 2.1M USB 2.0 CMOS Eyepiece Camera

**LC-36 2.1M USB2.0 CMOS Eyepiece Camera** are economic version with simple and compact structure CMOS eyepiece cameras (digital eyepiece). USB2.0 is used as the data transfer interface. The **LC-36 2.1M USB2.0 CMOS Eyepiece Camera** come with high-speed USB2.0 interface and high frame rate video display, which keep the screen smooth without interruption. Also the LC-36 2.1M USB2.0 CMOS Eyepiece Camera comes with advanced video & image processing application ImageView. The LC-36 2.1M USB2.0 CMOS Eyepiece Camera can be widely used to transfer the monocular or binocular student microscopes to digital microscope. With 23.2 to 30mm or 23.2 to 30.75 convert ring, the LC-36 2.1M USB2.0 CMOS Eyepiece Camera can also change the stereo microscope to digital stereo microscope.

## FEATURES

- Microscope eyepiece camera with 23.2 diameter and compact size;
- Easy to extend to C or CS- Mount camera with high quality lens(optional);
- High-quality camera with Aptina and Sony CMOS sensor;
- Auto white balance and auto-exposure; Brightness, contrast, chroma and saturation can be adjusted;
- High-speed USB2.0 interface and high frame rate video display keep the screen smooth without interruption;
- With advanced video & image processing application ImageView;
- Providing Windows/Linux/Mac OS multiple platforms SDK;
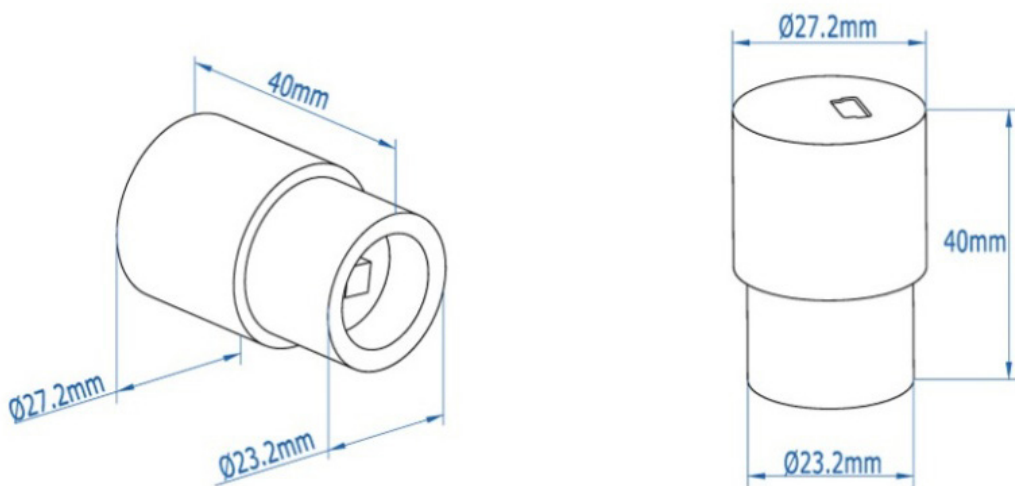- Native C/C++, C#/VB.NET, DirectShow, Twain Control API.

## SPECIFICATION

| Model | LC-36 |
|---|---|
| Sensor & Size(mm) | 2.1M/IMX307(C) 1/2.8" (5.73x4.3) |
| Pixel(µm) | 2.9x2.9 |
| G Responsivity | 1300mV |
| Dynamic range | 73dB |
| SNRmax | 43dB |
| FPS/Resolution | 38@2048x1536<br>38@1024x768 |
| Binning | 1x1<br>1x1 |
| Exposure | 0.1-2000 ms |

| Other Specification for LC-36 | |
|---|---|
| Spectral Range | 380-650nm (with IR-cut Filter) |
| White Balance | Auto White Balance |
| Color Technique | N/A |
| Capture/Control API | Windows/Linux/macOS/Android Multiple Platform SDK (Native C/C++, C#/VB.NET, Python, Java, DirectShow, Twain, etc) |

| Recording System | Still Picture and Movie |
|---|---|
| Cooling System* | Natural |
| **Operating Environment** | |
| Operating Temperature(in Centidegree) | -10~ 50 |
| Storage Temperature(in Centidegree) | -20~ 60 |
| Operating Humidity | 30~80%RH |
| Storage Humidity | 10~60%RH |
| Power Supply | DC 5V over PC USB Port |
| **Software Environment** | |
| Operating System | Microsoft® Windows® XP / Vista / 7 / 8 /10 (32 & 64 bit) |
| | OSx(Mac OS X) |
| | Linux |
| PC Requirements | CPU: Equal to Intel Core2 2.8GHz or Higher |
| | Memory: 2GB or More |
| | USB Port: USB2.0 High-speed Port |
| | Display: 17" or Larger |
| | CD-ROM |

**DIMENSION**

The LC-36's body is made of aluminum alloy blackening, ocular housing: Dia.27.2 X 40mm ensures a heavy duty, workhorse solution. The camera is designed with a high quality IR-CUT filter to filter the infrared light and protect the camera sensor. No moving parts included. These measures ensure a rugged, robust solution with an increased lifespan when compared to other camera solutions.

## PACKAGING INFORMATION

| Standard Camera Packing List | |
|---|---|
| A | Carton L:52cm W:32cm H:33cm (50pcs, 12~17Kg/ carton), not shown in the photo |
| B | Gift box L:14.5cm W:9.5cm H:6.0cm (0.15~0.16Kg/ box) |
| C | LC-36 USB2.0 eyepiece camera |
| D | High-Speed USB2.0 A male to mini B 5-pin male gold-plated connectors cable /1.5m |
| E | CD (Driver & utilities software, Ø8cm) |
| **Optional Accessory** | |
| F | C-Mount Adapter Housing:108027(HS502) |
| G | 108015(Dia.23.2mm to 30.0mm Ring)/Adapter rings for 30mm eyepiece tube |
| H | 108016(Dia.23.2mm to 30.5mm Ring)/ Adapter rings for 30.5mm eyepiece tube |
| I | 108017(Dia.23.2mm to 31.75mm Ring)/ Adapter rings for 31.75mm eyepiece tube |
| J | 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.) |