Digital Cameras
Labomed, Inc. is certified by ISO 9001-2013, has CE Conformity and is FDA Licensed.

**LC-1 USB 2.0 Color Digital Camera (5.0MP)**

With CMOS Image Sensor are used to capture microscope images and display real-time live video on your PC screen. They come with a high-resolution digital camera, built-in IR filter, user-friendly software, and adapters for all sizes of microscopes.

**Features**
- With high resolution sensor, providing high quality image and widely used in academic and medical field for high precision and resolution image capturing and processing.
- Very convenient to Use, just insert it into eyepiece tube or top tube of trinocular head.
- Getting Real-time and Non-compressing Video Data and Capturing Image Directly
- High sensitivity, low noise, excellent color correction.
- Easy and fast software installation.
- User-friendly image processing software.
- Compatible with Windows 2000/XP/Vista/Win7/Win8/Mac/Linux.
- With measurement function, including angle, length, square and etc..
- Supports multi-cameras working together.

**Application**
- Research, education (teaching, demonstration, academic exchanges)
- Teaching and equipment digitized laboratories, medical research
- Industrial Vision (PCB circuit board inspection, IC quality control)
- Medical (pathological observation)
- Food (microbial colonies observed count)

**Technical Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image Sensor</td>
<td>1/2.5 inch 5.0MP CMOS Image Sensor (4:3) MT9P031</td>
</tr>
<tr>
<td>Pixel Size</td>
<td>2.2μm×2.2μm</td>
</tr>
<tr>
<td>Filter</td>
<td>RGB Bayer</td>
</tr>
<tr>
<td>Lens Interface</td>
<td>C/CS</td>
</tr>
<tr>
<td>Shutter Type</td>
<td>Electronic rolling shutter</td>
</tr>
<tr>
<td>Frame Rate</td>
<td>5fps@2592×1944</td>
</tr>
<tr>
<td></td>
<td>21fps@1280×960</td>
</tr>
<tr>
<td></td>
<td>25fps@1024×768</td>
</tr>
<tr>
<td></td>
<td>38fps@640×480</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>1.4 V/lux-sec (550nm)</td>
</tr>
<tr>
<td>A/D</td>
<td>8-bit</td>
</tr>
<tr>
<td>Exposure Controlling</td>
<td>Auto/Manual</td>
</tr>
<tr>
<td>White Balance</td>
<td>Auto/Manual</td>
</tr>
<tr>
<td>Exposure Time</td>
<td>1ms-0.8 sec</td>
</tr>
<tr>
<td>Scan Mode</td>
<td>Progressive Scan</td>
</tr>
<tr>
<td>Dynamic Range</td>
<td>&gt;60dB</td>
</tr>
<tr>
<td>SNR</td>
<td>40.5dB</td>
</tr>
<tr>
<td>SNR</td>
<td>40.5dB</td>
</tr>
<tr>
<td>Software Control</td>
<td>Image size, brightness, gain, exposure time, color</td>
</tr>
<tr>
<td>Data Output</td>
<td>USB2.0, 480Mb/s</td>
</tr>
<tr>
<td>Power Supply</td>
<td>USB2.0, 500mA</td>
</tr>
<tr>
<td>Working Temperature</td>
<td>0°C – 60°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20°C – 70°C</td>
</tr>
<tr>
<td>Working Humidity</td>
<td>45%—85%</td>
</tr>
<tr>
<td>USB Cable</td>
<td>1.8m</td>
</tr>
<tr>
<td>Operating System</td>
<td>Windows 2000/XP/Vista/Win7/Win8/Mac/Linux</td>
</tr>
</tbody>
</table>

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Manufacturer of Scientific Instruments
**LC-2 USB 2.0 CMOS Color Digital Camera**

**Are** Color USB2.0 digital image systems that capture microscope images and display real-time live video on your PC screen. It comes with a high-resolution digital camera, built-in reduction lens, user-friendly software, and adapters for all sizes of microscopes.

The performance of the LC-2 digital camera is very excellent. The camera can be directly connected to a PC, and users can print via PC. So, customers do not need to purchase an extra computer, screen and printer. The software that comes with the LC-2 is free and has the functions of image capture, video recording and measurements.

**Features**
- With high resolution sensor, providing high quality image and widely used in academic and medical field for high precision and resolution image capturing and processing.
- Very convenient to Use, just insert it into eyepiece tube or top tube of trinocular head.
- Getting Real-time and Non-compressing Video Data and Capturing Image Directly
- High sensitivity, low noise, excellent color correction.
- Easy and fast software installation.
- User-friendly image processing software.
- Compatible with Windows 2000/ XP/ Vista/Win7/Win8/Mac/Linux.
- With measurement function, including angle, length and square.

**Application**
- Research, education (teaching, demonstration, academic exchanges)
- Teaching and equipment digitized laboratories, medical research
- Industrial Vision (PCB circuit board inspection, IC quality control)
- Medical (pathological observation)
- Food (microbial colonies observed count)

**Technical Specifications**

- **Image Sensor**: 1/2 inch 3.2MP CMOS Image Sensor (4:3)
- **Active pixels**: 2048x1536
- **Pixel size**: 3.2μm × 3.2μm
- **Shutter type**: Electronic rolling shutter (ERS)
- **Image Format Frame rate**: 9 fps @ 2048x1536
- **Sensitivity**: >1.0 V/lux-sec (550nm)
- **Dynamic range**: 61dB
- **SNR**: 43dB
- **Operating temperature**: 0°C ~ 60°C
- **Image Output**: USB2.0, Directshow and Twain
- **Software**: Scopelimage Plus
- **Operating System**: Windows 2000/ XP/ Vista/Win7(32bit), Macintosh

**Packaging Contents**
- The LC-2 camera packaging box includes:
  - The LC-2 Camera device with a High-Quality IR Cutoff Filter inside;
  - High Quality USB2.0 Cable;
  - 30mm adapter (Optional: 30.5mm adapter);
  - NDPL-10: 0.45X medium adapter;
  - CD: Software includes the “Scopelimage 9.0” software. The Driver contains hardware driver, TWAIN DS and DirectShow Source Filter. Additional information and manuals/documents can be found on the CD.

Optional (choose to buy): 0.01mm (for biological and other high power microscopes) or 0.1mm (for stereo and other low power microscopes) Calibration Slide.

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Labomed, Inc. is certified by ISO 9001-2013, has CE Conformity and is FDA Licensed.

**LC-3**

**USB 2.0 CMOS Industrial Color Smart Digital Camera**

According to the machine vision industry requirements, Labomed, Inc. has developed the latest LC-3 smart industrial cameras. With USB2.0 interface, 0.36 mega-pixel, 1.3 mega-pixel, 3.2 mega-pixel cameras are available. The size is only 29mm × 29mm × 46mm, weight (without lens) is only 60g. Among these cameras, 0.36 mega-pixel digital camera has high sensitivity, high dynamic range, global shutter, hardware frame buffer, high-speed features. 1.3 mega-pixel and 3.2 mega-pixel digital cameras have high sensitivity, high dynamic range, rolling shutter, high-speed features. LC-3 digital cameras are widely used in machine vision and a variety of image acquisition areas.

**Features**

- Fine new design, small size, 0.36 mega-pixel digital camera is 29mm × 29mm × 50mm (length × width × height), weight 60g. 1.3 mega-pixel and 3.2 mega-pixel digital camera are 29mm × 29mm × 46mm (length × width × height), weight 60g.
- Multiple mounting angles, suitable for all kinds of industrial production equipments’ installation requirements;
- Real industrial Color/mono CMOS image sensor with high sensitivity, high dynamic range, no compression, no interpolation. 0.36 mega-pixel digital camera is global shutter, 1.3 mega-pixel and 3.2 mega-pixel digital cameras are rolling shutter;
- High-speed USB2.0 interface, up to 480Mb/s;
- Support extraction modes, users can choose AOI area (Area of Interest), the image frame rate is greatly speed up after the extraction;
- Separate image capture and preview, support high-speed preview, high-quality acquisition; Supports SKIP2/SKIP4/SKIP8 3 extraction modes, the image frame rate multiplied after the extraction;
- The brightness of all modes and resolution switch is the same;
- Gamma correction, extended RGB gain, color reproduction more realistic;
- Support for still image capture (JPG, BMP), image color is rich and vivid;
- Support 8-bit, 24-bit, 32-bit bitmap preview and capture (Mono camera support 8-bit bitmap);
- Support uncompressed, compressed videos;
- Provide completed API for users’ secondary development, provide Demo Source Code;
- Hardware automatic gain control (AGC) and Exposure Control (AEC)
- Software auto white balance, auto exposure, continuous auto exposure control;
- Users can program to control white balance and exposure area;
- Support the plug recovery during acquisition and preview;
- Support firmware upgrade on-line;
- Plug and play, dispense with external power supply;
- Support Windows XP / Vista / 7 Operation System;
- Support VC, VB, DELPHI, LABVIEW and other development language;
- Fix USB cable on the camera with bolt to prevent it from falling off;
- Support Twain;
- Support standard C-mount lenses and all kinds of customized lenses;
Applications

- License image capture
- Medical diagnosis
- Microscope system
- Notes image capture
- Industrial production line image capture
- Fingerprint, palm print image capture
- Public Security investigation image capture
- Desktop images, portraits, iris image capture
- High speed vehicle license plate capture
- Outdoor Monitoring

Technical Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>LC-3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>USB2.0 Color CMOS 0.36MP industrial digital camera</td>
</tr>
<tr>
<td>Image Sensor</td>
<td>1/3 inch; Color 0.36MP CMOS Image Sensor</td>
</tr>
<tr>
<td>Pixel Size</td>
<td>6.0μm×6.0μm</td>
</tr>
<tr>
<td>Spectral Response</td>
<td>400nm~1000nm, Enhanced near-infrared</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>4.8V/lux-sec@550nm(0.1Lux)</td>
</tr>
<tr>
<td>Scan Mode</td>
<td>Progressive Scan</td>
</tr>
<tr>
<td>Exposure Mode</td>
<td>Electronic global shutter</td>
</tr>
<tr>
<td>Max Resolution</td>
<td>752 × 480</td>
</tr>
<tr>
<td>Frame Rate</td>
<td>61fps@752×480</td>
</tr>
<tr>
<td>White Balance</td>
<td>Auto / Manual</td>
</tr>
<tr>
<td>Exposure Control</td>
<td>Auto / Manual, software/hardware</td>
</tr>
<tr>
<td>Image Output</td>
<td>USB2.0, 480Mb/s</td>
</tr>
<tr>
<td>Power</td>
<td>USB2.0 Power Supply, 500mW</td>
</tr>
<tr>
<td>Dynamic Range</td>
<td>&gt;55dB Linear Mode</td>
</tr>
<tr>
<td></td>
<td>&gt;80dB-100dB High Dynamic mode</td>
</tr>
<tr>
<td>Programmable control</td>
<td>Image size, Contrast, brightness, gain, exposure time</td>
</tr>
<tr>
<td>Software Function</td>
<td>Image display, image processing, video</td>
</tr>
<tr>
<td>Working Temperature</td>
<td>-30°C~70°C</td>
</tr>
<tr>
<td>Accessories</td>
<td>Equipped with standard infrared filter (not available in mono camera), C/CS mount connecting ring, 2m USB cable, 1 CD with software and SDK.</td>
</tr>
<tr>
<td>Camera Net Weight</td>
<td>60g</td>
</tr>
<tr>
<td>Camera Dimension</td>
<td>29mm×29mm×50mm(length × width × height)</td>
</tr>
<tr>
<td>Box Dimension</td>
<td>118mm×108mm×96mm (length × width × height)</td>
</tr>
</tbody>
</table>
According to the machine vision industry requirements, Labomed, Inc. has developed the latest LC-4 series smart industrial cameras. With USB2.0 interface, 0.36 mega-pixel, 1.3 mega-pixel, 3.2 mega-pixel cameras are available. The size is only 29mm x 29mm x 46mm, weight (without lens) is only 60g. Among these cameras, 0.36 mega-pixel digital camera has high sensitivity, high dynamic range, global shutter, hardware frame buffer, high-speed features. 1.3 mega-pixel and 3.2 mega-pixel digital cameras have high sensitivity, high dynamic range, rolling shutter, high-speed features. LC-4 digital cameras are widely used in machine vision and a variety of image acquisition areas.

Features
- Fine new design, small size, 0.36 mega-pixel digital camera is 29mm x 29mm x 50mm (length x width x height), weight 60g. 1.3 mega-pixel and 3.2 mega-pixel digital camera are 29mm x 29mm x 46mm (length x width x height), weight 60g;
- Multiple mounting angles, suitable for all kinds of industrial production equipments’ installation requirements;
- Real industrial Color/mono CMOS image sensor with high sensitivity, high dynamic range, no compression, no interpolation. 0.36 mega-pixel digital camera is global shutter, 1.3 mega-pixel and 3.2 mega-pixel digital cameras are rolling shutter;
- High-speed USB2.0 interface, up to 480Mb/s;
- Support extraction modes, users can choose AOI area(Area of Interest), the image frame rate is greatly speed up after the extraction;
- Separate image capture and preview, support high-speed preview, high-quality acquisition; Supports SKIP2/SKIP4/SKIP8 3 extraction modes, the image frame rate multiplied after the extraction;
- The brightness of all modes and resolution switch is the same;
- Gamma correction, extended RGB gain, color reproduction more realistic;
- Support for still image capture (JPG, BMP), image color is rich and vivid;
- Support 8-bit, 24-bit, 32-bit bitmap preview and capture (Mono camera support 8-bit bitmap);
- Support uncompressed, compressed videos;
- Provide completed API for users’ secondary development, provide Demo Source Code;
- Hardware automatic gain control (AGC) and Exposure Control (AEC)
- Software auto white balance, auto exposure, continuous auto exposure control;
- Users can program to control white balance and exposure area;
- Support the plug recovery during acquisition and preview;
- Support firmware upgrade on-line;
- Plug and play, dispense with external power supply;
- Support Windows XP / Vista / 7 Operation System;
- Support VC, VB, DELPHI, LABVIEW and other development language;
- Fix USB cable on the camera with bolt to prevent it from falling off;
- Support Twain;
- Support standard C-mount lenses and all kinds of customized lenses;
- Durable aluminum alloy shell.
Applications
- License image capture
- Medical diagnosis
- Microscope system
- Notes image capture
- Industrial production line image capture
- Finger print, palm print image capture
- Public Security investigation image capture
- Desktop images, portraits, iris image capture
- High speed vehicle license plate capture
- Outdoor Monitoring

Technical Specifications
Model LC-4
Description USB2.0 Color CMOS 3.2MP industrial digital camera
Image Sensor 1/2 inch, Color 3.2MP CMOS Image Sensor
Pixel Size 3.2μm x 3.2μm
Spectral Response 400nm~1000nm
Sensitivity 1.0V/lux-sec@550nm
Scan Mode Progressive Scan
Exposure Mode Electronic rolling shutter
Max Resolution 2048 x 1536
Frame Rate 7fps@2048 x 1536
18fps@2048 x 1536
SKIP2 35fps@2048 x 1536 SKIP4
White Balance Auto / Manual
Exposure Control Auto / Manual, software/hardware
Image Output USB2.0, 480Mb/s
Power USB2.0 Power Supply, 500mW
Dynamic Range 61dB
Signal-to-Noise 43dB
Programmable control Image size, Contrast, brightness, gain, exposure time
Software Function Image display, image processing, video
Working Temperature 0°C~60°C

Dimensions

Spectral Response Curves
Labomed, Inc. is certified by ISO 9001-2013, has CE Conformity and is FDA Licensed.

According to the machine vision industry requirements, Labomed, Inc. has developed the latest LC-4 series smart industrial cameras. With USB2.0 interface, 0.36 mega-pixel, 1.3 mega-pixel, 3.2 mega-pixel cameras are available. The size is only 29mm × 29mm × 46mm, weight (without lens) is only 60g. Among these cameras, 0.36 mega-pixel digital camera has high sensitivity, high dynamic range, global shutter, hardware frame buffer, high-speed features. 1.3 mega-pixel and 3.2 mega-pixel digital cameras have high sensitivity, high dynamic range, rolling shutter, high-speed features. LC-4 digital cameras are widely used in machine vision and a variety of image acquisition areas.

**Features**

- Fine new design, small size, 0.36 mega-pixel digital camera is 29mm × 29mm × 50mm (length × width × height), weight 60g. 1.3 mega-pixel and 3.2 mega-pixel digital camera are 29mm × 29mm × 46mm (length × width × height), weight 60g;
- Multiple mounting angles, suitable for all kinds of industrial production equipments' installation requirements;
- Real industrial Color/mono CMOS image sensor with high sensitivity, high dynamic range, no compression, no interpolation. 0.36 mega-pixel digital camera is global shutter, 1.3 mega-pixel and 3.2 mega-pixel digital cameras are rolling shutter;
- High-speed USB2.0 interface, up to 480Mb/s;
- Support extraction modes, users can choose AOI area (Area of Interest), the image frame rate is greatly speed up after the extraction;
- Separate image capture and preview, support high-speed preview, high-quality acquisition; Supports SKIP2/SKIP4/SKIP8 3 extraction modes, the image frame rate multiplied after the extraction;
- The brightness of all modes and resolution switch is the same;
- Gamma correction, extended RGB gain, color reproduction more realistic;
- Support for still image capture (JPG, BMP), image color is rich and vivid;
- Support 8-bit, 24-bit, 32-bit bitmap preview and capture (Mono camera support 8-bit bitmap);
- Support uncompressed, compressed videos;
- Provide completed API for users’ secondary development, provide Demo Source Code;
- Hardware automatic gain control (AGC) and Exposure Control (AEC);
- Software auto white balance, auto exposure, continuous auto exposure control;
- Users can program to control white balance and exposure area;
- Support the plug recovery during acquisition and preview;
- Support firmware upgrade on-line;
- Plug and play, dispense with external power supply;
- Support Windows XP/ Vista / 7 Operation System;
- Support VC, VB, DELPHI, LABVIEW and other development language;
- Fix USB cable on the camera with bolt to prevent it from falling off;
- Support Twain;
- Support standard C-mount lenses and all kinds of customized lenses;
- Durable aluminum alloy shell.
Applications
• License image capture
• Medical diagnosis
• Microscope system
• Notes image capture
• Industrial production line image capture
• Fingerprint, palm print image capture
• Public Security investigation image capture
• Desktop images, portraits, iris image capture
• High speed vehicle license plate capture
• Outdoor Monitoring

Technical Specifications
Model: LC-5
Description: USB2.0 Color CMOS 3.2MP industrial digital camera
Image Sensor: 1/2 inch, Color 3.2MP CMOS Image Sensor
Pixel Size: 3.2μm×3.2μm
Spectral Response: 400nm~1000nm
Sensitivity: 1.0V/lux-sec@550nm
Scan Mode: Progressive Scan
Exposure Mode: Electronic rolling shutter
Max Resolution: 2048 × 1536
Frame Rate: 7fps@2048 x 1536
18fps@2048 x 1536
SKIP2 35fps@2048 x 1536 SKIP4
White Balance: Auto / Manual
Exposure Control: Auto / Manual, software/hardware
Image Output: USB2.0, 480Mb/s
Power: USB2.0 Power Supply, 500mW
Dynamic Range: 61dB
Signal-to-Noise: 43dB
Programmable control: Image size, Contrast, brightness, gain, exposure time
Software Function: Image display, image processing, video
Working Temperature: 0°C~60°C

Dimensions

Spectral Response Curves
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**LC-6 USB2.0 Industrial Color Digital Camera (10.0MP, Frame Buffer)**

The LC-6 digital cameras have hardware frame buffer, the speed is much higher than common digital cameras. With USB2.0 interface, from 0.36 mega-pixel to 14.0 mega-pixel Color and mono digital cameras are available. Among these cameras, 0.36 mega-pixel digital camera has high sensitivity, high dynamic range, global shutter, hardware frame buffer and high-speed features. Other digital cameras have high sensitivity, high dynamic range, rolling shutter, hardware frame buffer and high-speed features. LC-6 digital cameras are widely used in machine vision and a variety of image acquisition areas.

**Features**

- Multiple mounting angles, suitable for all kinds of industrial production equipments’ installation requirements;
- Real industrial Color/mono CMOS image sensor with high sensitivity, high dynamic range, no compression, no interpolation. 0.36 mega-pixel digital camera is global shutter, other digital cameras are rolling shutter;
- With board frame buffer, double buffer preview, real-time acquisition with external trigger;
- High-speed USB2.0 interface, up to 480Mb/s;
- Support extraction modes, users can choose AOI area (Area of Interest), the image frame rate is greatly speed up after the extraction;
- Separate image capture and preview, support high-speed preview, high-quality acquisition;
- Supports SKIP2/SKIP4/SKIP8 extraction modes, the image frame rate multiplied after the extraction;
- The brightness of all modes and resolution switch is the same;
- Gamma correction, extended RGB gain, color reproduction more realistic;
- Support for still image capture (JPEG, BMP), image color is rich and vivid;
- Supports 8-bit, 24-bit, 32-bit bitmap preview and capture (Mono camera support 8-bit bitmap);
- Supports uncompressed, compressed videos;
- Provides completed API for users’ Secondary development, provide Demo Source Code;
- Hardware automatic gain control (AGC) and Exposure Control (AEC);
- Software auto white balance, auto exposure, continuous auto exposure control;
- Users can program to control white balance and exposure area;
- Supports the plug recovery during acquisition and preview;
- Supports firmware upgrade on-line;
- Plug and play, dispense with external power supply;
- Supports Windows XP / Vista / 7 Operation System;
- Supports VC, VB, DELPHI, LABVIEW and other development language;
- Fix the USB cable on the camera with bolt, USB cable can not fall off;
- Supports Twain;
- Support for standard C-mount lenses and all kinds of customized lenses;
- Durable aluminum alloy shell;
- Supports external trigger acquisition and flash light control.
### Applications
- License image capture
- Medical diagnosis
- Microscope system
- Notes image capture
- Industrial production line image capture
- Fingerprint, palm print image capture
- Public Security investigation image capture
- Desktop images, portraits, iris image capture
- High speed vehicle license plate capture

### Technical Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>LC-6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>USB2.0 Color CMOS 3.2MP industrial digital camera</td>
</tr>
<tr>
<td>Image Sensor</td>
<td>1/2 inch, Color 3.2MP CMOS Image Sensor</td>
</tr>
<tr>
<td>Pixel Size</td>
<td>3.2μm×3.2μm</td>
</tr>
<tr>
<td>Spectral Response</td>
<td>400nm~1000nm</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>1.0V/lux-sec@550nm</td>
</tr>
<tr>
<td>Scan Mode</td>
<td>Progressive Scan</td>
</tr>
<tr>
<td>Exposure Mode</td>
<td>Electronic rolling shutter</td>
</tr>
<tr>
<td>Max Resolution</td>
<td>2048 × 1536</td>
</tr>
<tr>
<td>Frame Rate</td>
<td>7fps@2048 x 1536</td>
</tr>
<tr>
<td></td>
<td>18fps@2048 x 1536</td>
</tr>
<tr>
<td></td>
<td>SKIP2 35fps@2048 x 1536 SKIP4</td>
</tr>
<tr>
<td>White Balance</td>
<td>Auto / Manual</td>
</tr>
<tr>
<td>Exposure Control</td>
<td>Auto / Manual, software/hardware</td>
</tr>
<tr>
<td>Image Output</td>
<td>USB2.0, 480Mb/s</td>
</tr>
<tr>
<td>Power</td>
<td>USB2.0 Power Supply, 500mW</td>
</tr>
<tr>
<td>Dynamic Range</td>
<td>61dB</td>
</tr>
<tr>
<td>Signal-to-Noise</td>
<td>43dB</td>
</tr>
<tr>
<td>Programmable control</td>
<td>Image size, Contrast, brightness, gain, exposure time</td>
</tr>
<tr>
<td>Software Function</td>
<td>Image display, image processing, video</td>
</tr>
<tr>
<td>Working Temperature</td>
<td>0°C~60°C</td>
</tr>
</tbody>
</table>

### Shell Dimensions

![Shell Dimensions Diagram]

### Module Dimensions

![Module Dimensions Diagram]

### Spectral Response Curves

![Spectral Response Curves Diagram]
**LC-7**

**USB2.0 CCD Color Digital Camera (1.4MP)**

are CCD cameras. Real scientific CCD sensors are adopted and images and videos can be captured with high sensitivity and low image noise. With USB2.0 interface, C-mount, LC-7 CCD cameras can be used for high precision image analysis of low light, bright field, dark field, fluorescence in life science and industrial applications. Microscope adapter and connecting rings can be chosen to connect the digital cameras to any microscopes.

**Features**

- Real scientific-grade Color/mono CCD image sensor with high sensitivity and low image noise, no compression, no interpolation;
- Perfect image quality and high dynamic range with the perfect detail;
- High-speed image preview and fast focus;
- High-speed USB2.0 interface, up to 480MB/s;
- Supports uncompressed, compressed videos;
- Provides completed API for users' Secondary development, provide Demo Source Code;
- Hardware automatic gain control (AGC) and Exposure Control (AEC);
- Software auto white balance, auto exposure, continuous auto exposure control;
- Users can program to control white balance and exposure area;
- Supports the plug recovery during acquisition and preview;
- Supports firmware upgrade on-line;
- C-mount, 0.5X microscope adapter and 30mm, 30.5mm connecting rings are optional;
- Plug and play, dispense with external power supply;
- Supports Windows XP / Vista / 7 Operation System;
- Supports VC, VB, DELPHI, LABVIEW and other development language;
- Attaches the USB cable on the camera with bolt, the USB cable cannot fall off;
- Supports Directshow and Twain;
- Supports standard C-mount lenses and all kinds of customized lenses;
- Durable aluminum alloy shell.

**Applications**

LC-7 USB 2.0 CCD Color Digital Camera (1.4MP) are mainly used for high precision quantitative analysis in low light, brightfield, darkfield, fluorescence imaging of life science and industrial applications. These cameras also can be used in a Machine Vision area.

**Sample Images**
**Technical Specifications**

**Model**: LC-7

**Description**: USB2.0 Color CCD 1.4MP digital camera

**Image Sensor**: 1/2 inch, Color 1.4MP Sony CCD ICX205AK

**Pixel Size**: 4.65μm×4.65μm

**G Sensitive**: 400mV

**Spectral Response**: 400nm~1000nm

**Scan Mode**: Progressive Scan

**Exposure Mode**: Electronic rolling shutter

**Max Resolution**: 1360H × 1024V

**Frame Rate**: 7fps@1360×1024

**Lens Interface**: Standard C-mount

**Low-speed Readout**: Yes

**White Balance**: Auto / Manual

**Exposure Control**: Auto / Manual

**Exposure Time**: 1ms~60sec

**Image Output**: USB2.0, 480Mb/s

**Power**: USB2.0 Power Supply, 500mW

**Parameters Control**: Image size, Contrast, brightness, R,G,B gain, exposure time

**Software Function**: Image display, image processing, video

**Working Temperature**: 0°C~60°C

**Storage Temperature**: -20°C~70°C

**Working Humidity**: 10-90%

**Accessories**: Include C-mount, 2.0 meter USB cable, 1 CD with software and SDK., Manual

**Camera Net Weight**: 200g

**Camera Dimension**: 62mm×62mm×45mm (length × width × height)

**Box Dimension**: 118mm×108mm×96mm (length × width × height)

---

**Shell Dimensions**

**Module Dimensions**

**Spectral Response Curves**
**LC-9 USB2.0 Color Digital Camera (5.0MP)**

is especially designed for quick find and fast focus of specimens. Real scientific grade CCD sensors are adopted and images and videos can be captured with high sensitivity and low image noise. With C-mount, these cameras can be connected to trinocular microscopes, fluorescence microscopes, and metallurgical microscopes to capture a variety of bright field, dark field, and fluorescence images in life science and industrial applications.

**Features**

- Real scientific-grade colorful/mono CCD image sensor with high sensitivity and low image noise, no compression, no interpolation;
- Perfect image quality and high dynamic range with the perfect detail;
- High speed image preview and fast focus;
- Noise Reduction: semiconductor cooling to 30° below of room temperature;
- High-speed USB2.0 interface, up to 480Mb/s;
- Support Windows XP / Vista / 7 Operation System;
- Support Directshow and Twain;
- C-mount, 0.5X microscope adaptor and 30mm, 30.5mm connecting rings are optional;
- Durable aluminum alloy shell
- Suitable for fluorescent microscopy

**Applications**

LC-9 USB2.0 Cooled CCD Digital Camera (5.0 MP) are mainly used for high precision quantitative analysis in low light, brightfield, darkfield, and fluorescence imaging of life science and industrial applications.

**Package**

LC-9 USB2.0 Cooled CCD Digital Camera (5.0 MP) are packed in aluminum cases, the package includes:

- Digital camera (standard C-mount) 1
- 2.5 meters USB cable 1
- Peltier cooled power supply 1
- Peltier cooled cable 1
- CD (Driver, software) 1
- Manual 1
- Aluminum case 1

Labomed, Inc. is certified by ISO 9001-2013, has CE Conformity and is FDA Licensed.

**Manufacturer of Scientific Instruments**
**Technical Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>LC-9 (Cooled)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>USB2.0 5.0 Mega Pixel Color Cooled Digital Camera</td>
</tr>
<tr>
<td>Image Sensor</td>
<td>2/3&quot;color 5.0 mega pixel Sony CCD ICX282AQ</td>
</tr>
<tr>
<td>Pixel Size</td>
<td>3.4μm×3.4μm</td>
</tr>
<tr>
<td>G Sensitive</td>
<td>280mV</td>
</tr>
<tr>
<td>Scanning Mode</td>
<td>Interlaced Scanning, Progressive Scanning</td>
</tr>
<tr>
<td>Filter</td>
<td>R, G, B</td>
</tr>
<tr>
<td>Max Resolution</td>
<td>2580H x 1944V</td>
</tr>
<tr>
<td>Frame Rate</td>
<td>3fps@2580x1944, 10fps@1280x932</td>
</tr>
<tr>
<td>Readout noise</td>
<td>9e-</td>
</tr>
<tr>
<td>Dark current</td>
<td>0.07e-/pixel/s</td>
</tr>
<tr>
<td>Full Well capacity</td>
<td>12000e-</td>
</tr>
<tr>
<td>Quantum efficiency of image sensor at 600 nm</td>
<td>please check the following picture.</td>
</tr>
</tbody>
</table>

- Lens Interface: Standard C-Mount
- Low-speed Readout: Yes
- A/D conversion: 12 bit
- Peltier cooled: -30°C below ambient
- Angle light control: Yes
- White Balance: Auto/Manual
- Exposure Control: Auto/Manual
- Exposure Time: 0.1ms-60mins
- Image Output: USB2.0, 480Mb/s
- Power: 3.5V exterior power supply
- Parameters Control: Image size, Contrast, brightness, RGB gain, exposure time
- Software Function: Image display, image processing, video
- Working Temperature: 0°C~60°C
- Storage Temperature: -20°C~70°C
- Working Humidity: 10%-85%
- Accessories: Include C-Mount, 2.5m USB cable, peltier cooled power supply, peltier cooled cable, 1 CD with software and SDK, Manual, and aluminum case
- Dimension: 130mm*111mm*54mm (length x width x height)
- Gross Weight: 920g
Labomed, Inc. industrial digital cameras are middle size digital cameras. With USB2.0 interface, from 0.36 mega-pixel to 10.0 mega-pixel colorful and mono digital cameras are available. Other digital cameras have high sensitivity, high dynamic range, rolling shutter, high-speed features. Labomed, Inc. digital cameras are widely used in machine vision and a variety of image acquisition areas: cameras to any microscopes.

**Features**
- Multiple mounting angles, suitable for all kinds of industrial production equipments’ installation requirements;
- Real industrial colorful/mono CMOS image sensor with high sensitivity, high dynamic range, no compression, no interpolation. 0.36 mega-pixel digital camera is global shutter; other digital cameras are rolling shutter;
- High-speed USB2.0 interface, up to 480Mb/s;
- Support extraction modes, users can choose AOI area (Area of Interest), the image frame rate is greatly speed up after the extraction;
- Separate image capture and preview, support high-speed preview, high-quality acquisition; Support SKIP2/
- SKIP4/SKIP8 3 extraction modes, the image frame rate multiplied after the extraction;
- The brightness of all modes and resolution switch is the same;
- Gamma correction, extended RGB gain, color reproduction more realistic;
- Support for still image capture (JPG, BMP), image color is rich and vivid;
- Support uncompressed, compressed videos;
- Provide completed API for users Secondary development, provide Demo Source Code;
- Hardware automatic gain control (AGC) and Exposure Control (AEC);
- Software auto white balance, auto exposure, continuous auto exposure control;
- Users can program to control white balance and exposure area;
- Support the plug recovery during acquisition and preview;
- Support firmware upgrade on-line;
- Plug and play, dispense with external power supply;
- Support Windows XP / Vista / 7 Operation System;
- Support VC, VB, DELPHI, LABVIEW and other development language;
- Fix the USB cable on the camera with bolt, USB cable can not fall off; Support Twain;
- Support for standard C-mount lenses and all kinds of customized lenses;
- Durable aluminum alloy shell.

**Applications**
- License image capture
- Medical diagnosis
- Microscope system
- Notes image capture
- Industrial production line image capture
- Fingerprint, palm print image capture
- Public Security investigation image capture
- Desktop images, portraits, iris image capture
- High speed vehicle license plate capture
- Outdoor Monitoring

Labomed, Inc. is certified by ISO 9001-2013, has CE Conformity and is FDA Licensed.
### Technical Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>LC-14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>USB2.0 colorful/mono CMOS 5.0MP industrial digital camera</td>
</tr>
<tr>
<td>Image Sensor</td>
<td>1/2.5 inch, colorful/mono 5.0MP CMOS Image Sensor</td>
</tr>
<tr>
<td>Pixel Size</td>
<td>2.2μm x 2.2μm</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>0.53V/lux-sec at 550nm</td>
</tr>
<tr>
<td>Scan Mode</td>
<td>Progressive Scan</td>
</tr>
<tr>
<td>Exposure Mode</td>
<td>Electronic rolling shutter</td>
</tr>
<tr>
<td>Max Resolution</td>
<td>2592 x 1944</td>
</tr>
<tr>
<td>Scan Mode</td>
<td>Progressive Scan</td>
</tr>
<tr>
<td>Exposure Mode</td>
<td>Electronic rolling shutter</td>
</tr>
<tr>
<td>Max Resolution</td>
<td>2592 x 1944</td>
</tr>
<tr>
<td>White Balance</td>
<td>Auto / Manual</td>
</tr>
<tr>
<td>Exposure Control</td>
<td>Auto / Manual, software/hardware</td>
</tr>
<tr>
<td>Image Output</td>
<td>USB2.0, 480Mb/s</td>
</tr>
<tr>
<td>Power</td>
<td>USB2.0 Power Supply, 500mW</td>
</tr>
<tr>
<td>Dynamic Range</td>
<td>66.5dB</td>
</tr>
<tr>
<td>Signal-to-Noise</td>
<td>40.5dB</td>
</tr>
<tr>
<td>Programmable control</td>
<td>Image size, Contrast, brightness, gain, exposure time</td>
</tr>
<tr>
<td>Software Function</td>
<td>Image display, image processing, video</td>
</tr>
<tr>
<td>Working Temperature</td>
<td>-30°C ~ 70°C</td>
</tr>
<tr>
<td>Accessories</td>
<td>Equipped with standard infrared filter (not available in mono camera), C/CS mount connecting ring, 2m USB cable, 1 CD with software and SDK</td>
</tr>
<tr>
<td>Camera Net Weight</td>
<td>120g</td>
</tr>
<tr>
<td>Camera Dimension</td>
<td>54mm x 54mm x 45mm (length x width x height)</td>
</tr>
<tr>
<td>Box Dimension</td>
<td>118mm x 108mm x 96mm (length x width x height)</td>
</tr>
</tbody>
</table>

### Spectral Response Curves

![Spectral Response Curves](image)

### Dimensions

![Dimensions](image)
LC-16
USB2.0 CMOS Microscope Color Digital Camera (1.3MP)

are colorful USB2.0 digital image system that captures microscope images and displays real-time live screen. It comes with a high-resolution digital camera, built-in reduction lens, user-friendly software, sizes of microscopes.

Features
• With high resolution sensor, providing high quality image and widely used in acaderr for high precision and resolution image capturing and processing;
• Very convenient to Use, just insert it into Eyepiece Tube or Top Tube of Trinocular Head;
• Through USB2.0 interface, getting Real-time and Non-compressing Video Data and Capturing Image Directly;
• High sensitivity, low noise, excellent color correction;
• Easy and fast software installation;
• User-friendly and sophisticated image processing applications;
• Premium optical lens adapter;
• Compatible with Windows 2000/ XP/Vista/Win7(32bit);
• With measurement function, including angle, length and square.

Technical Specifications
Image Sensor 1/2 inch 1.3MP CMOS Image Sensor (4:3)
Active pixels 1280×1024
Pixel size 5.2μm×5.2μm
Shutter type Electronic rolling shutter (ERS)
Image Format Frame rate 15fps@1280x1024
Sensitivity >1.0 V/lux-sec (550nm)
Dynamic range 61dB
SNR 43dB
Operating temperature 0°C ~ 60°C
Image Output USB2.0, Directshow and Twain
Software Scopelmage 9.0
Operating System Windows 2000/ XP/Vista/Win7(32bit), Macintosh

Packaging Contents
• The LC-16 camera packaging box includes:
• The LC-16 Camera device with a High-Quality IR Cutoff Filter inside;
• High Quality USB2.0 Cable;
• 30mm adapter (Optional: 30.5mm adapter);
• NDPL-10: 0.45X medium adapter;
• CD: Software includes the “Scopelmage 9.0” software. The Driver contains hardware driver, TWAIN DS and DirectShow Source Filter. Additional information and manuals/documents can be found on the CD.

Optional (choose to buy): 0.01mm (for biological and other high power microscopes) or 0.1mm(for stereo and other low power microscopes) Calibration Slide.

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Manufacturer of Scientific Instruments
LC-17
USB2.0 CMOS Microscope Color Digital Camera (5.0MP)

are color USB2.0 digital image system that captures microscope images and displays real-time live video on your PC screen. It comes with a high-resolution digital camera, built-in reduction lens, user-friendly software, and adapters for all sizes of microscopes.

Features
- With high resolution sensor, providing high quality image and widely used in academic and medical fields for high precision and resolution image capturing and processing;
- Very convenient to use, just insert it into Eyepiece Tube or Top Tube of Trinocular Head;
- Through USB2.0 interface, getting real-time and non-compressing video data and capturing image directly;
- High sensitivity, low noise, excellent color correction;
- Easy and fast software installation;
- User-friendly and sophisticated image processing applications;
- Premium optical lens adapter;
- Compatible with Windows 2000/XP/Vista/Win7(32bit);
- With measurement function, including angle, length and square.

Technical Specifications
- Image Sensor: 1/2 inch 1.3MP CMOS Image Sensor (4:3)
- Active pixels: 1280×1024
- Pixel size: 5.2μm×5.2μm
- Shutter type: Electronic rolling shutter (ERS)
- Image Format Frame rate: 15fps@1280×1024
- Sensitivity: >1.0V/lux-sec (550nm)
- Dynamic range: 61dB
- SNR: 43dB
- Operating temperature: 0°C ~ 60°C
- Image Output: USB2.0, Directshow and Twain
- Software: ScopeImage 9.0
- Operating System: Windows 2000/XP/Vista/Win7(32bit), Macintosh

Packaging Contents
- The LC-17 camera packaging box includes:
- The LC-17 Camera device with a High-Quality IR Cutoff Filter inside;
- High Quality USB2.0 Cable;
- 30mm adapter (Optional: 30.5mm adapter);
- NDPL-10: 0.45X medium adapter;
- CD: Software includes the “ScopeImage 9.0” software. The Driver contains hardware driver, TWAIN DS and DirectShow Source Filter. Additional information and manuals/documents can be found on the CD.

Optional (choose to buy): 0.01 mm (for biological and other high power microscopes) or 0.1 mm (for stereo and other low power microscopes) Calibration Slide.
Digital Cameras

LC-19

USB2.0 CCD Color Cooled Digital Camera (1.4MP)

are high quality CCD cameras. Real scientific CCD sensors are adopted and images and videos can be captured with high sensitivity and low image noise. With C-mount, these cameras can be connected to trinocular microscopes, fluorescence microscopes, and metallurgical microscopes to capture a variety of bright field, dark field, and fluorescence images in life science and industrial applications. Microscope adapter and connecting rings can be chosen to connect the digital cameras to any microscopes.

Features
- Real scientific-grade colorful/mono CCD image sensor with high sensitivity and low image noise;
- no compression, no interpolation;
- Perfect image quality and high dynamic range with the perfect detail;
- High speed image preview and fast focus;
- High-speed USB2.0 interface, up to 480Mb/s;
- Support Windows XP / Vista / 7 Operation System;
- Support Direct show and Twain;
- C-mount, 0.5X microscope adapter and 30mm, 30.5mm connecting rings are optional;
- Durable aluminum alloy shell.
- Suitable for fluorescent microscopy

Technical Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>USB2.0 Color Peltier Cooled CCD 1.4MP Digital Camera</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image Sensor</td>
<td>2/3 inch, Color 1.4MP Sony CCD ICX285AQ</td>
</tr>
<tr>
<td>Pixel Size</td>
<td>6.45μm×6.45μm</td>
</tr>
<tr>
<td>G Sensitive</td>
<td>1240mV</td>
</tr>
<tr>
<td>Scan Mode</td>
<td>Progressive Scan</td>
</tr>
<tr>
<td>Filter</td>
<td>color</td>
</tr>
<tr>
<td>Max Resolution</td>
<td>1360H × 1024</td>
</tr>
<tr>
<td>Frame Rate</td>
<td>12.5fps@1360×1024, 15fps@680×520</td>
</tr>
<tr>
<td>Lens Interface</td>
<td>Standard C-mount</td>
</tr>
<tr>
<td>Low-speed Readout</td>
<td>Ok</td>
</tr>
<tr>
<td>A/D conversion</td>
<td>12 bit</td>
</tr>
<tr>
<td>Peltier cooled</td>
<td>-45°C below ambient</td>
</tr>
<tr>
<td>Fan</td>
<td>70×70/5000rpm</td>
</tr>
<tr>
<td>White Balance</td>
<td>Auto / Manual</td>
</tr>
<tr>
<td>Exposure Control</td>
<td>Auto / Manual</td>
</tr>
<tr>
<td>Exposure Time</td>
<td>0.1ms~60mins</td>
</tr>
<tr>
<td>Image Output</td>
<td>USB2.0, 480Mb/s</td>
</tr>
<tr>
<td>Power</td>
<td>12V exterior power supply</td>
</tr>
<tr>
<td>Parameters Control</td>
<td>Image size, Contrast, brightness, R.G.B gain, exposure time</td>
</tr>
<tr>
<td>Software Function</td>
<td>Image display, image processing, video</td>
</tr>
<tr>
<td>Working Temperature</td>
<td>0°C~60°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20°C~70°C</td>
</tr>
<tr>
<td>Working Humidity</td>
<td>45%-85%</td>
</tr>
<tr>
<td>Accessories</td>
<td>Include C-mount, 2.5m USB cable, peltier cooled power supply, peltier cooled cable, 1 CD with software and SDK, Manual, Aluminum case</td>
</tr>
<tr>
<td>Dimension</td>
<td>115mm×94mm×115mm (length × width × height)</td>
</tr>
<tr>
<td>Gross Weight</td>
<td>480g</td>
</tr>
</tbody>
</table>

Labomed, Inc. is certified by ISO 9001-2013, has CE Conformity and is FDA Licensed.
Packaging Contents

LC-19 cooled CCD cameras are packed in aluminum cases, the package includes:
- Digital camera (standard C-mount) 1
- 2.5 meters USB cable 1
- Peltier cooled power supply 1
- Peltier cooled cable 1
- CD (Driver, software) 1
- Manual 1
- Aluminum case 1

Application

LC-19 are mainly used for high precision quantitative analysis in low light, brightfield, darkfield, fluorescence imaging of life science and industrial applications.

Sample Images


**LC-20**

**USB2.0 Industrial Color Digital Camera**

(14.0MP, Frame Buffer)

LC-20 digital cameras are widely used in machine vision and a variety of image acquisition areas.

**Features**

- Multiple mounting angles, suitable for all kinds of industrial production equipment's installation requirements;
- Real industrial Color/mono CMOS image sensor with high sensitivity, high dynamic range, no compression, no interpolation. 0.36 mega-pixel digital camera is global shutter, other digital cameras are rolling shutter;
- With board frame buffer, double buffer preview, real-time acquisition with external trigger;
- Support extraction modes, users can choose AOI area (Area of Interest), the image frame rate is greatly speeded up after the extraction;
- Separate image capture and preview, support high-speed preview, high-quality acquisition;
- Support SKIP2/SKIP4/SKIP8 extraction modes, the image frame rate multiplied after the extraction;
- The brightness of all modes and resolution switch is the same;
- Gamma correction, extended RGB gain, color reproduction more realistic;
- Support for still image capture (JPG, BMP), image color is rich and vivid;
- Support uncompress, compressed videos;
- Provide completed API for users' Secondary development, provide Demo Source Code;
- Hardware automatic gain control (AGC) and Exposure Control (AEC);
- Software auto white balance, automatic auto exposure, continuous auto exposure control;
- Users can program to control white balance and exposure area;
- Support the plug recovery during acquisition and preview;
- Support firmware upgrade on-line;
- Plug and play, dispense with external power supply;
- Support Windows XP / Vista / 7 Operation System;
- Support VC, VB, DELPHI, LABVIEW and other development language;
- Fix the USB cable on the camera with bolt, USB cable can not fall off;
- Support Twain;
- Support for standard C-mount lenses and all kinds of customized lenses;
- Durable aluminum alloy shell;
- Support external trigger acquisition and flash light control.

**License image capture**

**Medical diagnosis**

**Microscope system**

**Notes image capture**

**Industrial production line image capture**

**Fingerprint, palm print image capture**

**Public Security investigation image capture**

**Desktop images, portraits, iris image capture**

**High speed vehicle license plate capture**
## Technical Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>LC-20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>USB2.0 colorful CMOS 14.0MP industrial digital camera with board frame buffer</td>
</tr>
<tr>
<td>Image Sensor</td>
<td>1/2.3 inch, colorful 14.0MP CMOS Image Sensor</td>
</tr>
<tr>
<td>Pixel Size</td>
<td>1.4μm×1.4μm</td>
</tr>
<tr>
<td>Spectral Response</td>
<td>400nm~1000nm</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>0.724V/lux-sec@550nm</td>
</tr>
<tr>
<td>Scan Mode</td>
<td>Progressive Scan</td>
</tr>
<tr>
<td>Exposure Mode</td>
<td>Electronic rolling shutter</td>
</tr>
<tr>
<td>Max Resolution</td>
<td>4608×3288</td>
</tr>
<tr>
<td>Frame Rate</td>
<td>2.5fps@4608×3288, 6fps@4608×3288(SKIP2), 11.5fps@4608×3288(SKIP4)</td>
</tr>
<tr>
<td>White Balance</td>
<td>Auto / Manual</td>
</tr>
<tr>
<td>Exposure Control</td>
<td>Auto / Manual, software/hardware</td>
</tr>
<tr>
<td>Image Output</td>
<td>USB2.0, 480Mb/s</td>
</tr>
<tr>
<td>Power</td>
<td>USB2.0 Power Supply, 500mW</td>
</tr>
<tr>
<td>Dynamic Range</td>
<td>65.3dB</td>
</tr>
<tr>
<td>Signal-to-Noise</td>
<td>34dB</td>
</tr>
<tr>
<td>Programmable control</td>
<td>Image size, Contrast, brightness, gain, exposure time</td>
</tr>
<tr>
<td>Software Function</td>
<td>Image display, image processing, video</td>
</tr>
<tr>
<td>Working Temperature</td>
<td>0°C~70°C</td>
</tr>
<tr>
<td>Accessories</td>
<td>Equipped with standard infrared filter, C/CS mount connecting ring, 2m USB cable, 1 CD with software and SDK</td>
</tr>
<tr>
<td>Camera Net Weight</td>
<td>200g</td>
</tr>
<tr>
<td>Camera Dimension</td>
<td>62mm×62mm×45mm (length × width × height)</td>
</tr>
<tr>
<td>Box Dimension</td>
<td>118mm×108mm×96mm (length × width × height)</td>
</tr>
</tbody>
</table>

### Shell Dimensions

![Shell Dimensions Image](image1.png)

### Module Dimensions

![Module Dimensions Image](image2.png)

### Spectral Response Curves

![Spectral Response Curves](image3.png)

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**LC-21**

**HD LCD Color Microscope Tablet Camera (5.0MP) and Viewer**

is a brand new high performance and highly cost-effective, super reliable 9.7 inches smart digital microscope tablet camera! Equipped with SMP color COMS sensor and 9.7 inches tablet, it is developed specifically for microscopy applications. Along with an Android 4.2 operating system, it runs smoothly and the user experience is fantastic. With built-in professional software, including multi-functional measurement software and particle analysis software, the operation is very simple and efficient. Online upgrades are available, even if you are not proficient on the computer, you can independently accomplish all of the software upgrades! With a flexible configuration and wide application range, it is easy to achieve all of your desires of exploring and discovering the mystery of the microscopic kingdom.

**Features**
- Complete Application Functions, Not Only Camera, also Tablet PC!
- 5 Megapixel color camera.
- 9.7 inch 1024 × 768 IPS Color LCD touchscreen, can be operated by USB keyboard and mouse.
- Built-in Android 4.2 operating system, RK3066 dual-core 1.5GHz CPU.
- Support external SD memory card.
- Multiple interfaces, USB, SD Memory Card, HDMI Output can connect with monitor or projector screen.
- Wi-Fi and Bluetooth ready.
- Build-in microscopy software for capture images, record videos and make measurement.
- Professional particle analysis software.
- Measure data can be export to Excel file.
- Standard C-mount Interface.

**Application**
- Biological Teaching Digital Imaging
- Medical Digital Imaging Microscopy
- Field Operation Digital Microscopic Imaging
- Family Natural Science Education
- Surgical Microscopic Imaging
- Navigation for Processed Imaging
- Industrial Optical HD Digital Imaging
- Astronomical Observation

**Technical Specifications**

**Hardware**
- **CPU**: RK3066 dual-core 1.5GHz
- **Display**: 9.7 inch Color LCD Touch (1024*768)
- **Storage**: RAM 1GB DDR3, ROM 2GB, Support External SD Memory Card, Maximum Capacity Up to 32GB
- **Camera**: 1/2.5"(4:3), 5Mega Pixel(2592H × 1944V) Color CMOS Sensor 15fps@1024 × 768
- **Network**: WI-FI, Bluetooth
- **I/O**: USB/Mini-USB (OTG), Support USB Keyboard and Mouse, HDMI Output SD Memory Card Slot, DC5V Power Supply, On/Off Button
- **Mechanical**: LCD Screen 360°@Horizontal/ 90°@Vertical
Labomed, Inc. is certified by ISO 9001-2013, has CE Conformity and is FDA Licensed.

**Software**
- Operating System: Android 4.2
- Banding Software: Build-in Microscopy Software (Measuring and Particle Analysis)

**Accessories**
- Standard
  - Power Adapter, USB Cable, User Manual
- Optional
  - 0.5× Nose Piece with Ø23mm, Ø30mm and Ø30.5mm Adapter Rings for Different Diameter Eyepiece Holders.

**Built-in Camera**
- Optical Format: 1/2.5-inch (4:3)
- Active Image Size: 5.70mm(H) × 4.28mm (V) 7.13mm(Diagonal)
- Active Pixels: 2592H × 1944V
- Dynamic Range: 66.5dB
- SNR: 40.5dB
- A/D Converter: 12-bit, On-chip
- Sensitivity: 0.53V/lux-sec(550nm)
- Resolution & Frame: 1280 × 720@15fps
- Frequency: 640 × 480@30fps
- Shutter: Electronic Rolling Shutter (ERS)
- White Balance: Auto/Manual

**Easy to Install**
Equipped with international standard C-type interface, it can be conveniently thread on both C-mount coupler and eyepiece adapter. It is compatible with the monocular, binocular, trinocular and any kind of microscopes, such as stereo, video, dissecting microscope or telescopes.

**Connect video coupler to the device**
1. Remove the dust cover and lens protection film, then connect the C-Mount coupler to the device.
2. Install the device on microscope.

**Power Supply**
Optional Plug Types: USA/ EU/UK and Japan. Connect one end of DC adapter cable to the power port at the bottom of the device, and the adapter to 100-240V AC power outlet.

**Built-in Microscopy Software**
After the device is turn on, touch the “YWCamera” Icon to open the camera application.

**Real-Time Measurement Software**
2. Tool Panel – Control panels, capture, adjust parameter, measurement, etc.
3. Thumbnail Panel – Show captured images and videos, touch it to browse the files.
4. System Tool – Switch Camera, full screen, configure.

**Particle Analysis Software**
Touch the “YWImage” icon to open the particle analysis application.

Labomed, Inc. is certified by ISO 9001-2013, has CE Conformity and is FDA Licensed.
**LC-23**

**Color Digital Camera (10.0MP),
Electronic Rolling Shutter**

is used to capture microscope images and display real-time live video on your PC screen. They come with a high-resolution digital camera, built-in IR filter, user-friendly software, and adapters for all sizes of microscopes.

**Features**

- With high resolution sensor, providing high quality image and widely used in academic and medical field for high precision and resolution image capturing and processing;
- Very convenient to Use, just insert it into eyepiece tube or top tube of trinocular head;
- Getting Real-time and Non-compressing Video Data and Capturing Image Directly;
- High sensitivity, low noise, excellent color correction;
- Easy and fast software installation;
- User-friendly image processing software;
- Compatible with Windows 2000/ XP/Vista/Win7;
- With measurement function, including angle, length, square and etc.

**Technical Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image Sensor</td>
<td>1/2.3 inch 10.0MP CMOS Image Sensor (4:3) MT9J001</td>
</tr>
<tr>
<td>Resolution</td>
<td>3856×2764</td>
</tr>
<tr>
<td>Pixel Size</td>
<td>1.67µm×1.67µm</td>
</tr>
<tr>
<td>Filter</td>
<td>RGB Bayer</td>
</tr>
<tr>
<td>Lens Connector</td>
<td>C/CS</td>
</tr>
<tr>
<td>Shutter Type</td>
<td>Electronic rolling shutter</td>
</tr>
<tr>
<td>Frame Rate</td>
<td>3fps@3856×2764, 25fps@1280×1024</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>0.44 V/lux-sec (550nm)</td>
</tr>
<tr>
<td>Bit</td>
<td>8-bit</td>
</tr>
<tr>
<td>Exposure Controlling</td>
<td>Auto, Manual</td>
</tr>
<tr>
<td>White Balance</td>
<td>Auto, Manual</td>
</tr>
<tr>
<td>Exposure Time</td>
<td>1ms-0.3 sec</td>
</tr>
<tr>
<td>Scan Mode</td>
<td>Progressive Scan</td>
</tr>
<tr>
<td>Dynamic Range</td>
<td>&gt;63dB</td>
</tr>
<tr>
<td>SNR</td>
<td>40.3dB</td>
</tr>
<tr>
<td>Software Control</td>
<td>Image size, brightness, gain, exposure time, color</td>
</tr>
<tr>
<td>Data Output</td>
<td>USB2.0, 480Mb/s</td>
</tr>
<tr>
<td>Power Supply</td>
<td>USB2.0, 500mA</td>
</tr>
<tr>
<td>Working Temperature</td>
<td>0°C ~ 60°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20°C ~ 70°C</td>
</tr>
<tr>
<td>Working Humidity</td>
<td>45% ~ 85%</td>
</tr>
<tr>
<td>USB Cable</td>
<td>1.8m</td>
</tr>
<tr>
<td>Operating System</td>
<td>Windows 2000/ XP/ Vista/Win7/Mac</td>
</tr>
<tr>
<td>Size</td>
<td>85mm×86mm×37mm</td>
</tr>
<tr>
<td>Weight</td>
<td>220g</td>
</tr>
</tbody>
</table>
Packaging Contents
The LC-23 camera packaging box includes:
1. The LC-23 Camera device with a C-mount and 1.8m USB cable;
2. 0.5x video adapter (23mm) and 30mm, 30.5mm connecting ring;
3. CD including driver, software and instruction manual.

Optional (must be purchased separately):
0.01mm (for biological and other high power microscopes) or 0.1mm (for stereo and other low power microscopes) Calibration Slide.

Sample Images
LC-26
USB2.0 CMOS Microscope Color Digital Camera (9.0MP)

are colorful USB2.0 digital image system that captures microscope images and displays real-time live video on your PC screen. It comes with a high-resolution digital camera, built-in reduction lens, user-friendly software, and adapters for all sizes of microscopes.

Features
• With high resolution sensor, providing high quality image and widely used in academic and medical fields for high precision and resolution image capturing and processing;
• Very convenient to Use, just insert it into Eyepiece Tube or Top Tube of Trinocular Head;
• Through USB2.0 interface, getting Real-time and Non-compressing Video Data and Capturing Image Directly;
• High sensitivity, low noise, excellent color correction;
• Easy and fast software installation;
• User-friendly and sophisticated image processing applications;
• Premium optical lens adapter;
• Compatible with Windows 2000/ XP/Vista/Win7(32bit);
• With measurement function, including angle, length and square.

Technical Specifications
Image Sensor 1/2 inch 9.0MP CMOS Image Sensor (4:3)
Active pixels 3488x2616
Pixel size 1.75μm×1.75μm
Shutter type Electronic rolling shutter (ERS)
Image Format Frame rate 4fps@3488x2616
Sensitivity >0.44V/lux-sec (550nm)
Dynamic range 65dB
SNR 35dB
Operating temperature 0°C ~ 60°C
Image Output USB2.0, Directshow and Twain
Software Scopelmage 9.0
Operating System Windows 2000/XP/Vista/Win7/32bit

Packaging Contents
The LC-26 Camera device with a USB2.0 Cable;
30mm adapter (Optional: 30.5mm adapter);
0.45X medium adapter (23mm);
CD Iincludes the “Scopelmage 9.0” software.
The Driver contains hardware driver, TWAIN DS and DirectShow.
User manual can be found on the CD.

Optional (must be purchased separately):
0.01mm(for biological and other high power microscopes) or
0.1mm(for stereo and other low power microscopes) Calibration Slide.
LC-27

Microscope Digital Eyepiece

is designed for improving a traditional microscope to a digital microscope by plugging in to an eyepiece. It can be used either on a monocular, binocular or a trinocular microscope. It is 1.3 Megapixel, it can be directly connected to a PC. The analysis software can take images, take videos and make measurement without touch.

Features

• Adopt high performance USB2.0 colorful sensor.
• With high-resolution 1280X1024 (1.3M Pixel), avoid mosaic phenomenon and make image fluent.
• Provide auto brightness and white balance control function and some high-level image control function such as color saturation, contrast, fringe swell and gamma numerical value.
• With 30f/s high image transmission speed, makes image transmission more fluent and realistic.
• Convenient to use and just insert it into eyepiece tube or top tube of trinocular head. Easy to install and operate and it can be plug and unplug freely. So it is can fit to many kind of microscopes.
• USB2.0, plug-and-play, easy to install and use.
• With measurement functions, it is an outstanding assistant in medicine, teaching, industrial inspection field and other sectors.

Technical Specifications

<table>
<thead>
<tr>
<th>Image Sensor</th>
<th>1/3.2&quot; CMOS Colorful Sensor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image Format</td>
<td>640×480, 800×600, 1024×760, 1280×1024</td>
</tr>
<tr>
<td>Data Format</td>
<td>YUY2, 1420</td>
</tr>
<tr>
<td>Image Output</td>
<td>USB2.0, plug-and-play</td>
</tr>
<tr>
<td>Connecting Mode</td>
<td>Directly Insert it into Eyepiece Tube of Microscope (23.2mm or 30mm), 30.5mm connecting ring is optional</td>
</tr>
<tr>
<td>Image frame Rate</td>
<td>30fps@VGA (1420), 15fps@VGA(YUY2)</td>
</tr>
<tr>
<td>Lowest Illumination</td>
<td>2.5LUX</td>
</tr>
<tr>
<td>SNR</td>
<td>&gt;48dB</td>
</tr>
<tr>
<td>Camera Image Control</td>
<td>Saturation, Contrast, Sharpness and so on</td>
</tr>
<tr>
<td>White Balance</td>
<td>Auto, Manual</td>
</tr>
<tr>
<td>Exposure</td>
<td>Auto, Manual</td>
</tr>
<tr>
<td>Working Current</td>
<td>&lt;200mA</td>
</tr>
<tr>
<td>Dormant Current</td>
<td>&lt;1mA</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20°C~+60°C</td>
</tr>
<tr>
<td>Working Temperature</td>
<td>0°C~+40°C</td>
</tr>
<tr>
<td>Dimension &amp; G.W.</td>
<td>18cm<em>16cm</em>8cm, 0.7kg</td>
</tr>
</tbody>
</table>

Accessories

Digital Camera Eyepiece with USB cable
CD with Driver and software
Eyepiece Tube Adapter 23.2mm, 30mm connecting ring
Packing Box
Digital Cameras

**LC-28**

USB2.0 Color Digital Camera (3.2MP) with CMOS Image Sensor

are used to capture microscope images and display real-time live video on your PC screen. They come with a high-resolution digital camera, built-in IR filter, user-friendly software, and adapters for all sizes of microscopes.

**Features**

- With high resolution sensor, providing high quality image and widely used in academic and medical field for high precision and resolution image capturing and processing;
- Very convenient to use, just insert it into eyepiece tube or top tube of trinocular head;
- Getting real-time and non-compressing video data and capturing image directly;
- High sensitivity, low noise, excellent color correction;
- Easy and fast software installation;
- User-friendly image processing software;
- Compatible with Windows 2000/XP/Vista/Win7
- With measurement function, including angle, length, square and etc.

**Technical Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image Sensor</td>
<td>1/2 inch 3.2MP CMOS Image Sensor (4:3) MT9T001</td>
</tr>
<tr>
<td>Resolution</td>
<td>2048×1536</td>
</tr>
<tr>
<td>Pixel Size</td>
<td>3.2μm×3.2μm</td>
</tr>
<tr>
<td>Filter</td>
<td>RGB Bayer</td>
</tr>
<tr>
<td>Lens Interface</td>
<td>C/CS</td>
</tr>
<tr>
<td>Shutter Type</td>
<td>Electronic rolling shutter</td>
</tr>
<tr>
<td>Frame Rate</td>
<td>10fps@2048×1536, 25fps@1024×768, 40fps@640×480</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>1.0 V/lux-sec (550nm)</td>
</tr>
<tr>
<td>A/D</td>
<td>8-bit</td>
</tr>
<tr>
<td>Exposure Controlling</td>
<td>Auto/Manual</td>
</tr>
<tr>
<td>White Balance</td>
<td>Auto/Manual</td>
</tr>
<tr>
<td>Exposure Time</td>
<td>1ms-0.5 sec</td>
</tr>
<tr>
<td>Scan Mode</td>
<td>Progressive Scan</td>
</tr>
<tr>
<td>Dynamic Range</td>
<td>&gt;54dB</td>
</tr>
<tr>
<td>SNR</td>
<td>43dB</td>
</tr>
<tr>
<td>Software Control</td>
<td>Image size, brightness, gain, exposure time, color</td>
</tr>
<tr>
<td>Data Output</td>
<td>USB2.0, 480Mb/s</td>
</tr>
<tr>
<td>Power Supply</td>
<td>USB2.0, 500mA</td>
</tr>
<tr>
<td>Working Temperature</td>
<td>0°C ~ 60°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20°C ~ 70°C</td>
</tr>
<tr>
<td>Working Humidity</td>
<td>45%~ 85%</td>
</tr>
<tr>
<td>USB Cable</td>
<td>1.8m</td>
</tr>
<tr>
<td>Operating System</td>
<td>Windows 2000/XP/Vista/Win7/Win8/Mac/Linux</td>
</tr>
<tr>
<td>Size</td>
<td>85mm×86mm×37mm</td>
</tr>
<tr>
<td>Weight</td>
<td>220g</td>
</tr>
</tbody>
</table>
Application
• Research, education (teaching, demonstration, academic exchanges)
• Teaching and equipment digitized laboratories, medical research
• Industrial Vision (PCB circuit board inspection, IC quality control)
• Medical (pathological observation)
• Food (microbial colonies observed count)

Packaging Contents
The LC-28 camera packaging box includes:
1. The LC-28 Camera device with a C-mount and 1.8m USB cable;
2. LC-28 comes with a 0.5× adapter video adapter(23mm) and 30mm, 30.5mm connecting ring;
3. CD including driver, software and instruction manual.
4. 0.01mm (for biological and other high power microscopes) Calibration Slide (stage micrometer).

Optional (choose to buy):
0.1mm (for stereo and other low power microscopes) Calibration Slide.

Sample Images
Digital Cameras

**LC-29**

**WiFi Microscope Eyepiece (5.0MP) with CMOS Image Sensor**

is an exclusive eyepiece designed for biological microscopes with a TV lens cone, stereoscopic microscopes, and metallographic microscopes. It has a CMOS 5MP camera and a unique WiFi interface to connect to all of your WiFi devices with a convenient and refreshing microscope experience. One or many users can simultaneously view, capture and store images and live video transmitted from the microscope to their smartphones, tablets and computers.

**Features**

- With the new COMS 5MP sensor, it is a WiFi Microscope Eyepiece designed for biological microscopes.
- With a TV lens cone, stereoscopic microscopes and metallographic microscopes for high precision.
- and image and LIVE VIDEO, multiple access viewing, capturing and storage.
- Instant monitoring and simultaneous observation from computers, smartphones and tablets.
- Very convenient to use, just insert it into eyepiece tube or top tube of trinocular head.
- Comes with standard microscope adapters.
- Intelligent buttons allow for zoom in/out, auto exposure, increase/decrease exposure functions.
- WiFi antenna is 360° swivel, dismountable, and strongly enhanced the Wi-Fi signal for a better experience.
- Easy and fast software installation.
- User-friendly image processing software.
- Compatible with Windows XP/Win7/Win8 (32-bit and 64-bit), Android 3.0 or higher, iOS6 or higher (WiFi working mode).

**Technical Specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size</strong></td>
<td>60 (Diameter) x70 (Height)</td>
</tr>
<tr>
<td><strong>Sensor</strong></td>
<td>CMOS 5MP</td>
</tr>
<tr>
<td><strong>Frame rate</strong></td>
<td>USB output: 640x480@60fps, 480x600@30fps, 1024x768@30fps, 1280x660@30fps, 2010x2010@18fps</td>
</tr>
<tr>
<td></td>
<td>WiFi output: 640x480@30fps, 600x600@30fps, 1024x768@30fps, 1280x600@20fps, 2010x2010@18fps</td>
</tr>
<tr>
<td><strong>Frequency range</strong></td>
<td>2.4000–2.4835GHz</td>
</tr>
<tr>
<td><strong>Working modes</strong></td>
<td>USB mode, WiFi mode</td>
</tr>
<tr>
<td><strong>Exposure</strong></td>
<td>Wide range auto/manual exposure</td>
</tr>
<tr>
<td><strong>White Balance</strong></td>
<td>Automatic white balance</td>
</tr>
<tr>
<td><strong>Function</strong></td>
<td>Video recording, audio recording and transmission, photo snapshot function</td>
</tr>
<tr>
<td><strong>Turn on WiFi devices</strong></td>
<td>Instant monitoring from smartphone/tablet</td>
</tr>
<tr>
<td><strong>Support browser</strong></td>
<td>Safari/Chrome/IE</td>
</tr>
<tr>
<td><strong>Transmit bandwidth</strong></td>
<td>1508bps</td>
</tr>
<tr>
<td><strong>WiFi</strong></td>
<td>802.11b/g/n</td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
<td>Separable and rechargeable lithium battery (3.7V 1900mAh) ; DC 5V USB power supply by PC. External DC 5V 1.5A adapter</td>
</tr>
<tr>
<td><strong>Operating system</strong></td>
<td>Microsoft® Windows® XP / 7 / 8 (32 &amp; 64 bit) (USB working and WiFi working mode) Android 3.0 or higher (WiFi working mode)</td>
</tr>
<tr>
<td><strong>Hardware requirement</strong></td>
<td>CPU: equal to Intel Core 2 1.6GHz or higher Memory: 32GB or higher USB interface: USB 2.0 (will require when install software)</td>
</tr>
</tbody>
</table>

Labomed, Inc. is certified by ISO 9001-2013, has CE Conformity and is FDA Licensed.
LC-30 HD LCD Digital Camera (6.0MP)

- Control camera with mouse from USB port, no shaking.
- 11.6” retina HD LCD Screen, high definition and high quality color reproduction.
- 6.0MP still image capture and 1080P Video Recording.
- Save image and video to SD card.
- HDMI Output from the camera to the LCD screen, frame rate up to 60fps.
- Can be connected to PC and take picture, take video, do measurement and analyze images.
- Standard C-mount Interface for different microscopes.
LC-30 HD LCD Digital Camera (6.0MP)

**Introduction**
LC-30 HD LCD Digital Camera (6.0MP) is a brand new high performance and highly cost-effective, super reliable HD LCD camera which combines an full HD camera and a retina HD LCD screen. With the built-in software, the LC-30 can be controlled by a mouse to take pictures, take videos and do simple measurement. Equipped with Sony COMS sensor and 11.6” retina HD LCD screen, it is developed specifically for different microscopy applications.

**Applications**
LC-30 HD LCD Digital Camera (6.0MP) can be widely used in medical diagnosis, industrial production and inspection, laboratory research and related microscopy field for image, video capture and analysis. With the high image quality and easy to operate, it will be your best assistant.

- Live Cell Imaging
- Cytology
- Navigation for Processed Imaging
- Surgical Microscopic Imaging
- Defect Analysis
- Industrial Optical HD Digital Imaging
- Pathology
- Semiconductor Inspection
- Astronomical Observation

**Specifications (see next page for more specifications)**

**HDMI Camera**
- Image Sensor: CMOS, Sony IMX236
- Chip Size: 1/2.8"
- Video Resolution: 1920 × 1080
- Captured Image Resolution: 3264 × 1836 on SD card to LCD monitor, 1920 × 1080 and 3264 × 1836 with software to PC
- Frame Rate: 1920 × 1080 30fps via USB2.0, 1920 × 1080 60fps via HDMI
- Data Record: High speed SD Card (8G)
- Video Record: 1080p 30fps in SD Card, 1080p 30fps in PC
- Scan Mode: Progressive
- Electronic Shutter: Electronic Rolling Shutter
- A/D conversion: 8 bit
- Color Depth: 24bit
- Sensitivity: 510mV
- Dynamic Range: 68dB
- S/N ratio: 52dB
- Exposure time: 0.001 sec ~ 10.0 sec
- Exposure: Auto/Manual
- White balance: Auto
- Settings: Gain,Gamma,Saturation,Contrast, scale bar function
- Built- in software: Cloud 1.0 version
- PC software: ISCapture
- Output model 1: USB2.0
- Output model 2: HDMI
- System Compatible: Windows XP/Vista/Win 7(32 and 64-bit ),MAC OSX
- Optical port: C- Mount
- Power Supply: DC 12V /2A
- Operational Temperature: 0-60°C
- Humidity: 45%-85%
- Storage Temperature: -20-70°C
LC-30 HD LCD Digital Camera (6.0MP)

Specifications

Retina Screen
Screen Size: 11.6 inch
Aspect Ratio: 16:9
Display Resolution: 1920 × 1080
Display Type: IPS-PRO
Brightness: 320cd/m2
Static Contrast Ratio: 1000:1
Input: 1 * HDMI PORT
Power Supply: DC 12V /2A External Adapter
Dimensions: 282mm × 180.5mm × 15.3mm
Net Weight: 600g

Sample Images

Characteristic Curve of Photographic Transmission