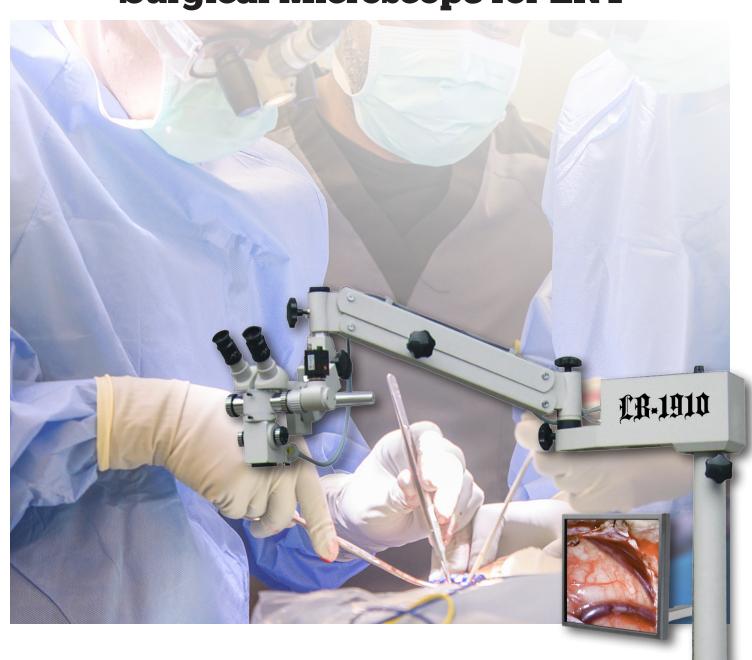


LB-1910 Surgical Microscope for ENT





The LB-1910 surgical surgical microscopes for ENT are adopting the combinative structure which is in fashion internationally, are suitable for the examination and surgery in the dentistry, ENT and ophthalmology.

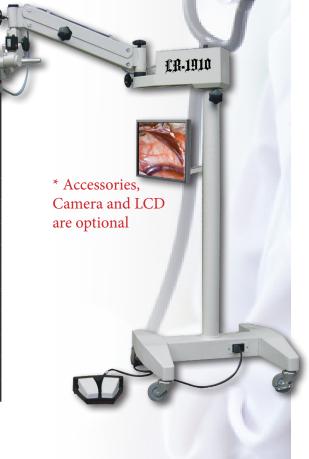
The main microscope can be equipped with straight, inclined or tiltable binoculars on the basis of different usages. It is also with manual focusing system or motorized focusing system. The retinal protection device and red reflex module are very useful in the ophthalmic operation. In order to demonstrate or store the document, the beam splitter, observer's monocular and adaptor for CCD camera or still camera are for option.

Features

- With full range of spare parts, and flexible combination, it is suitable for examination and surgeries in several kinds of fields.
- High-contrast image, great depth of field and excellent stereo effect.
- 5-step drum magnification changer, different working distance for options.
- The main microscope can be inclined back & forth and right & left, and move up & down.
- The counter-balanced spring arm, easy for adjustment.
- Co-axial cold light illumination, high intensity, no heating in the operation surface.

SPECIFICATION MICROSCOPE

Objective lens (mm)						
Value on wheel	items	175 (with f'=125mm binocular)	200	250	300	400
0.4	magnification	3.6	4.2	3.4	2.8	2.1
	Visual field	56	53	66	80	106
0.6	magnification	5.4	6.2	4.9	4.1	3.1
	Visual field		35	44	53	70
1	magnification	8.9	10.4	8.3	6.9	5.2
	Visual field		20.7	25.8	31	41.4
1.6	magnification	14.2	17.4	13.9	11.6	8.7
	Visual field		12.3	15.4	18.5	24.6
2.5	magnification	22.3	25.5	20.4	17	12.7
	Visual field	9	8.3	10.4	12.5	16.6





Structure Specifications

Eyepiece: 12.5X

Diopter adjustment: -5D to +5D Interpupillary distance: 55-75 mm

Range of manual focusing or motorized focusing: 40 mm

Speed of motorized focusing: 3mm/s Extended arm: 1040 mm (max.)

Elevation stroke for spring arm: 350 mm

Rotation angle: 270 degree

The diameter of illumination field: 56 – 80 mm

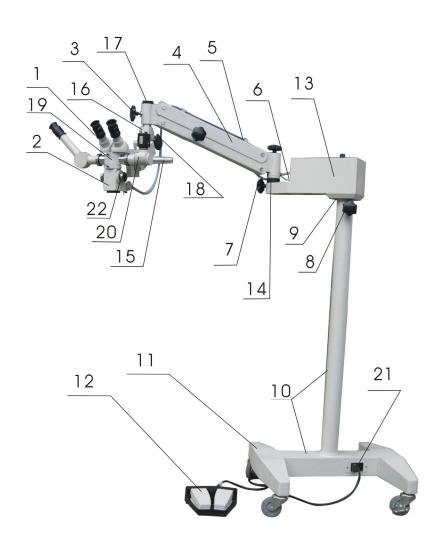
Electrical Parameters

Brightness: not less than 80000 Lux

Halogen lamp: 15V/150W

Power supply: 220V/50Hz or 110V/60Hz

Parts



- 1. binoculars
- 2. main microscope
- 3. lock hand-wheel
- 4. counter-balanced arm
- 5. optic fiber cable
- 6. electric cable and it's connector
- 7. fixing hand-wheel
- 8. lock hand-wheel
- 9. connecting part
- 10. column and bar
- 11. flank base
- 12. pedal control switch
- 13. cold light source arm
- 14. connecting screw and washer
- 15. inclination handle
- 16. connecting block
- 17. connecting hand-wheel
- 18. hand-wheel
- 19. beam splitter
- 20. adaptor for CCD camera
- 21. connectors for power supply and pedal control switch
- 22. magnification changer wheel



LC-8 Sony IMX185(C) 1/1.9"(7.2x4.5) C-mount WIFI+HDMI CMOS Camera



LC-8 Sony IMX185(C) 1/1.9"(7.2x4.5) **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.

APPLICATION

LC-8 Sony IMX185(C) 1/1.9"(7.2x4.5) 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-8 Sony IMX185(C) 1/1.9"(7.2x4.5) 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-8 Sony IMX185(C) 1/1.9"(7.2x4.5) 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, 2.0M resolution image(1920*1080) 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-8 Sony IMX185(C)** 1/1.9"(7.2x4.5) **C-mount WIF-I+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).

CAMERA SPECIFICATION

Model LC-8

Sensor & Size(mm) Sony IMX185(Color)

1/1.9"(7.2x4.5)

Pixel(μ m) 3.75*3.75

G Sensitivity 1120mv with 1/30s
Dark Signal 0.15mv with 1/30s
FPS/Resolution 60/1920*1080(HDMI)

25/1920x1028(WIFI)

Binning 1x1

Exposure 0.06ms~918ms

Interface & Button Functions

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 2M Resolution 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

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 $-10\sim50$ (in Centidegree) Storage Temperature $-20\sim60$ (in Centidegree)

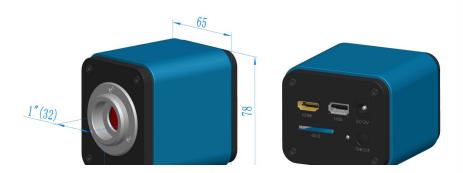
Operating Humidity $30\sim80\%$ RH Storage Humidity $10\sim60\%$ RH

Power Supply DC 12V/1A Adapter





DIMENSION



PACKING INFORMATION



Standard Packing List

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

B LC-8 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



- D HDMI Cable
- E 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

H Adjustable lens adapter

C-Mount to Dia.23.2mm Eyepiece Tube

(Please choose 1 of them for your microscope)

I 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)