



LB-1950

Operational Microscope for Ophthalmology



LB-1950 Operational Microscope for Ophthalmology (Cataracts and Other Eye Surgeries) is a friendly to use coaxial illumination operation microscope for one person. It is portable and compact. It is suitable for carrying out cataracts and other eye surgeries.

APPLICATION

It is portable, compact and is mainly applied in clinic, hospitals and mobile hospitals for Ophthalmology and areas like these.

FEATURES

- All the lenses are multi-coated, mildewproof and anti-reflective.
- Optional objectives: f250/f300/f350f/f400.
- Desktop stand can be chosen to make the device more portable. It can also be customized according to various operation requirements.
- Foot control focus, 3 gears magnification, sharp images and comfortable observation, can meet the needs of cataracts and other eye surgeries.
- With apochromatic technology, focal points of different wavelengths light through the lens are very close, the operators' vision is more clearly.

SPECIFICATION

Eyepiece Magnification	12.5×
Objective Lens	f=200
Working Distance	190mm
Magnifications for Main Microscope	5.3×, 8×, 12×
Diameter of Field	F37mm, F25mm, F16.7mm
Diopter Adjustment	±7D
Pupil Distance	50mm~80mm
Maximal Resolution	100LP/mm
Illumination Source	12V/100W, medical cold reflection halogen lamp
Illumination Type	6°+0°Coaxial cold light source illumination
Coaxial Illumination	≥30000lx
Reaching Radius of Arm	870mm
Adjustable Vertical Range	700mm~1100mm
Fine Focusing Range	30mm
Input Voltage	AC220V±22 V / 50Hz±1Hz, AC110V±11V /60Hz±1Hz
Power	120VA
Fuse	AC250V T1.25A, AC125V T2.5A



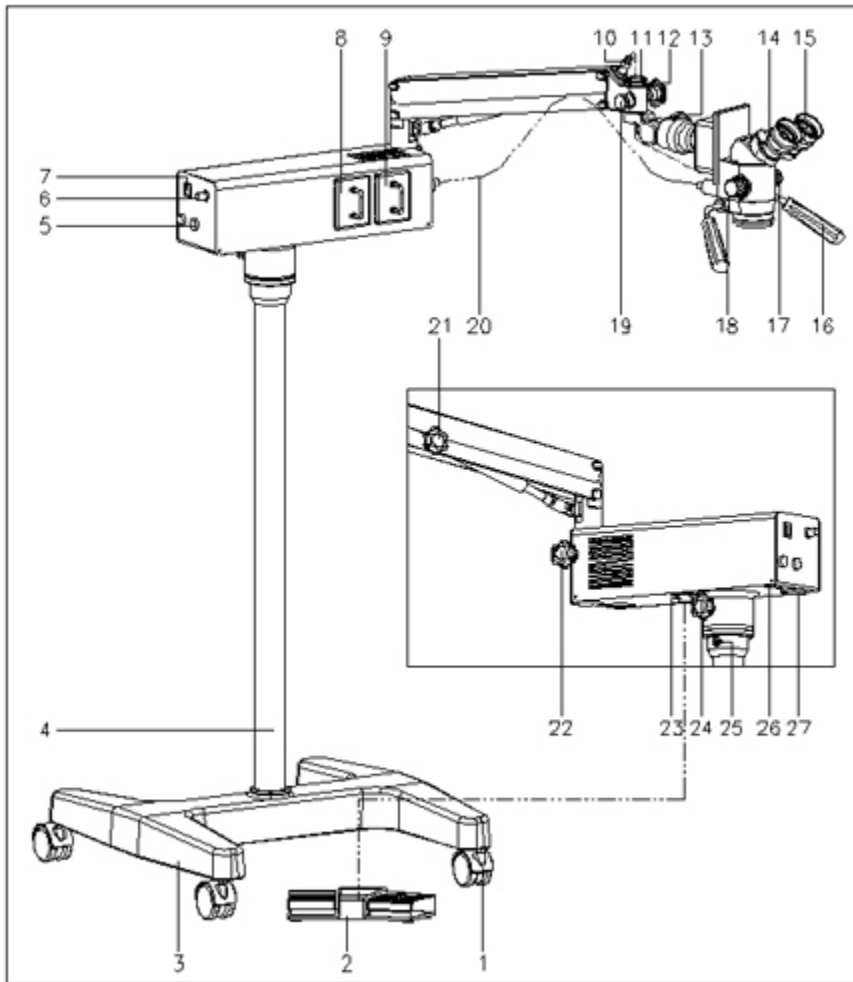
* Accessories, Camera and LCD are optional

Electrical Safety Standard

Executive Standard: GB9706.1-2007, type I
 Packing Volume 0.2m3, 1carton
 Total Weight 41kg

Optional Accessories

CCD Camera LC-8 C-Mount HDMI+WiFi CMOS Camera



Name and use of components

- | | |
|---|---|
| [1] Caster | intensity. |
| Move and support the equipment | [7] Power supply switch |
| [2] Foot control switch | Be used to switch on or switch off power supply. |
| Be used to control the focusing functions of microscope | [8] Spare bulb module |
| [3] Floor stand | In case the working bulb burnt during an operation, the spare lamp module may be inserted so as to ensure the operation to be continued smoothly. |
| Be used to support & fix stand pillar | [9] Bulb module |
| [4] Stand pillar | [10] 7-pin plug/socket |
| [5] Fuse | Connecting wires for focusing control |
| Two (1.25A/2.5A) are used to power supply | [11] Fixing nut |
| [6] Light-adjusting knob | This nut lets microscope suspend on the small horizontal arm. |
| Used for continuous adjustment of illumination | Though there is protective melt, you must check this nut tight- |

ened or not.

[12] Star fixation knob (with sterilized cap)

Fix the revolving angle of the suspended spindle of microscope.

[13] Star fixation knob (with sterilized cap)

Lock the microscope and make it not revolve at up and down plane.

[14] Diopter adjusting ring

Adjust ocular diopter by rotating this ring. The range of adjustment is $\pm 6D$.

[15] Eyecups

Adjust exit-pupil distance. Its height is 18mm and it may be taken off or rolled down.

[16] Manipulating handle (with sterilized cap)

For rough focusing, move the microscope up and down or right and left.

[17] Magnification knob (with sterilized cap)

Three magnification steps are provided. With different objectives the magnification factor of each step differs. Rotating the knob to change the magnification.

[18] Fixing block circle

Fix the manipulating handle so that it will not loose.

[19] Fuse pin

Avoid the microscope dropping when the fixing nut looses while unloading it or suspending it.

[20] Fiber optic

Lead the light beam from bulbs to the operating position.

[21] Star fixation knob (with sterilized cap)

Lock the little arm by tightening it firmly so as to prevent the microscope from moving up and down.

[22] Star fixation knob

Tighten it in order to lock the little arm and make the microscope not move vertically.

[23] 5-pin plug/socket

Connect the foot switch.

[24] Star fixation knob

Tighten it in order to lock the light source box to make it not revolve when moving or storing.

[25] Inner hexagonal tightening bolt

Lock the stand pillar and the light source box

[26] 110/220V selecting switch.

[27] Power plug

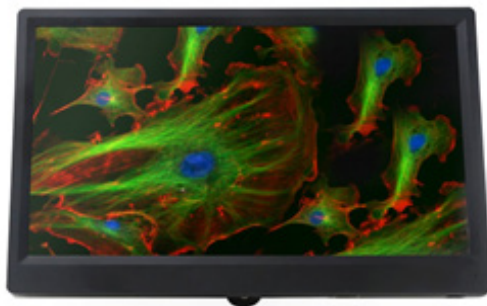
Input power supply



OPTIONAL CAMERA AND MONITOR:

LC-8 C-MOUNT HDMI+WiFi CMOS CAMERA AND MONITOR:

Camera Front and Back



Front View



Back View



Side view

Monitor Basic Characteristics:

- HDMI Monitor
- True 1080P
- LCD Panel
- High Contrast Ratio up to 1000:1
- LED back light with 50000 hours long life time
- 11.6 inch active area

Monitor Basic Performance

LCD Panel	IPS LCD Screen (Super TFT)
Input Video Format	HDMI
Native Resolution	1920x1080
Display Type	16:9 Ratio 11.6 Inch Active
Typical Contrast Ratio	1000:1
Colors	16.7 Million

Viewing Angle (L/R/U/D)	IPS Full View
Active Display Area	258mm(W)×145mm(H)
Pixel Pitch	0.134(W)X0.134(H)mm
Brightness	350cd/sq.m;400cdsq.m
Backlight	LED Backlight, 50000 hours
Outline Parameter	
Color	Black
Dimension	281(L)*179(H)*15.6(W) mm
Weight	400g
Operating Environment	
Operating Temperature	-15 Degree~55 Degree
Humidity Non Condensing	Operating:10%-
Synchronization Range	30-80KHz Horizontal,55-
Power Supply	AC110V-220V /DC12V(1A)
Power Consumption	Max12W