

SOM2000E

Operation Microscope



Characteristics:

- Electromagnetic lock and balance technology ensure the easy operation and stable orientation.
- Cold light source is bright and even enough, which does no harm to tissues.
- Germany imported Schott optics and Apochromatic technology ensure clear field of view and high resolutions.
- Aspherics and BIOM added on objective could meet the demands of vitreo-retinal operations.
- The equipment is applied not only for ophthalmic operation, but also for neurosurgical, ENT, Cardio-Thoracic Surgical operations, etc.
- Optional accessories: oblique illumination, fundus aspheric lens and inversion (BIOM) lens.

Specifications:

| | |
|--|--|
| Eye Piece Magnifications | 12.5×/18B |
| Objective Focus | f=200mm |
| Working Distance | 195mm |
| Magnification for Main Microscope | 4.6×~27× zoom magnification |
| Magnification for Assistant Microscope | 6.2×, 9.3×, 14× |
| Diameter of Field | φ46mm~φ8.5mm |
| Adjustable Diopter | ±6D |
| Adjustable Range for Pupil Distance | 55mm~75mm |
| Maximal Resolution | 126LP/mm |
| Illumination Source | 15V/150W, medical cold-reflection halogen lamp |
| Illumination Type | 6° coaxial illumination, 6° ±2° coaxial illumination |
| Filter | UV&IR filter, yellow spot protection filter, redfree, GG435, GG475 |
| Maximal Illumination | ≥50000lx |
| Maximal Height for Microscope | 1710mm |
| Reaching Radius of Arm | 1320mm |
| Adjustable Vertical Range | 710mm~1310mm |
| Fine Focus Speed and Range | ≤2mm/s, 50mm |
| Speed for X/Y and Range | ≤2mm/s, 50mm×50mm |
| Arthrosis Fixation | Electromagnetic Lock |
| Input Voltage | AC220V±10% / 50Hz±1Hz, AC110V±10% / 60Hz±1Hz |
| Power | 480VA |
| Fuse | AC250V T5.0AL (51S-050H), AC125V T10.0AL(51S-0100L) |
| Electrical Safety Standard | Executive to GB9706.1-2007, Class I |
| Packing Volume | 1.494m³, 5cartons |
| Total Gross Weight | 302kg |
| Optional Objectives | f=250mm/300mm/350mm/400mm |

SOM2000Dx

Operation Microscope



Characteristics:

- It provides an amazingly clear, fine observations by using Xenon light source.
- -2° ~ +6° coaxial illumination greatly improves the intension and range of red light reflex.
- UV-proof and heat absorption reduces the harm to intraocular tissues and make the patient feel more comfortable.
- Germany imported Schott optics ensure the surgeons a bright, balanced and fine observation.
- Apochromatic technology used in the optical design, ensures coaxial light focus and makes a clearer field of view.
- Lock device under the microscope arm prevents accident from happening.
- Fine focusing knob is under the bottom of assistant binocular. The observation of the assistant's microscope can be finely focused independently from the main microscope, to avoid the different observations from the surgeon.

Specifications:

| | |
|--|---|
| Eyeiece Magnification | 12.5×/18B |
| Objective Focus | f=200mm |
| Working Distance | 170mm |
| Magnification for Main Microscope | 4.6×~27×, motorized and manual control, Continuous Magnification |
| Magnification for Assistant Microscope | 6×, 10×, 16× |
| Diameter of Field | φ46mm~φ8.5mm |
| Adjustable Diopter | ±7D |
| Adjustable Range for Pupil Distance | 55mm~75mm (main microscope is 45mm~80mm) |
| Maximal Resolution | 126LP/mm |
| Focus for Assistant Microscope | ≥30mm |
| Illumination Source | 120V/100W Medical Xenon Lamp and 12V/100W Halogen Lamp. Dual-source hand-switched |
| Illumination Type | 6° ±2° Coaxial illumination, 26° oblique illumination |
| Filter | UV-IR filter, yellow spot protection filter, redfree, GG435, GG475 |
| Coaxial Illumination | ≤180000lx(xenon); ≥2000lx(Halogen), 1-99 level; Foot/Panel operated |
| Oblique Illumination | ≤180000lx(xenon); ≥2000lx(Halogen), 1-99 level; Foot/Panel operated |
| Reaching Radius of Arm | 1230mm |
| Adjustable Vertical Range | 925mm~1465mm |
| Fine Focusing Speed and Range | ≤2mm/s, 45mm |
| Speed for X/Y and Range | ≤2mm/s, 50mm×50mm |
| Input Voltage | AC220V±22V/50Hz±1Hz, AC110V±11V/60Hz±1Hz |
| Power | 280VA |
| Fuse | AC250V T3.15A(51S-032H), AC125V T6.3A(51S-063L) |
| Electrical Safety Standard | Executive standard:GB9706.1-2007 |
| Packing Volume | 0.856m³, 5cartons |
| Total Gross Weight | 230kg |



xenon lamp

SOM2000D

Operation Microscope



Characteristics:

- Germany imported Schott optics ensures the surgeon bright, balanced, and fine observation.
- Apochromatic technology used in the optical design, ensures coaxial light focus and provides clearer field of view.
- Lock device under the microscope arm ensures the safe distance and prevent accidents from happening.
- Independent electrical control box with the function of automatic diagnosis, which is very convenient for installation and repair if necessary.

Specifications:

| | |
|--|--|
| Eyeiece Magnifications | 12.5×/18B |
| Objective Lens | f=200mm |
| Working Distance | 170mm |
| Magnification for Main Microscope | 4.6×~27× motorized and manual control continuous magnification |
| Magnification for Assistant Microscope | 6×、10×、16× |
| Diameter of Field | Φ46mm~Φ8.5mm |
| Adjustable Diopter | ±6D |
| Adjustable Range for Pupil Distance | 55mm~75mm (main microscope is 45mm~80mm) |
| Maximal Resolution | 119 LP/mm |
| Focus for Assistant Microscope | ≥30mm |
| Illumination Source | 12V/100W, cold reflection halogen lamp for medical use |
| Illumination Type | 6° +0° coaxial illumination of cold light source, 26° oblique illumination |
| Coaxial Illumination | ≥60000lx, 1~9level, panel operated |
| Oblique Illumination | ≥60000lx, 1~9level, panel operated |
| Reaching Radius of Arm | 1230mm |
| Adjustable Vertical Range | 880mm~1420mm |
| Fine Focusing Speed and Range | ≤2mm/s, 50mm |
| Speed for X/Y and Range | ≤2mm/s, 50mm×50mm |
| Input Voltage | AC220V±22V/50Hz±1Hz、AC110V±11V/60Hz±1Hz |
| Power | 170VA |
| Fuse | AC250V T3.15 A (51S-032H)、AC125V T6.3A(51S-063L) |
| Electrical Safety Standard | Executive standard:GB9706.1-2007, Class I |
| Packing Volume | 0.756m³, 5cartons |
| Total Gross Weight | 215kg |



SOM2000C

Operation Microscope

Characteristics:

- Compact structure and complete functions.
- 4×~24× zoom magnifications, horizontal movement of foot control and fine focusing.
- Germany imported Schott optics ensure the sharp image and even field of view.
- Applied in operations and fine examinations of ophthalmology, ENT, surgery, etc.

Specifications:

| | |
|-------------------------------------|---|
| Eyeiece Magnification | 12.5×/16B |
| Focus of Big Objective Lens | f=200mm (f=175/250/300 is optional) |
| Working Distance | 190mm |
| Magnification for Main Microscope | 4×~24× |
| Diameter of Field | Φ41.5mm~Φ7.5mm |
| Adjustable Diopter | ±6D |
| Adjustable Range for Pupil Distance | 50mm~75mm |
| Visual Angle of Ocular | 30°~90° (Eyepiece moving between 0°~180° is optional) |
| Maximal Resolution | 119LP/mm |
| Illumination Source | 15V/150W, Medical Cold-reflection Halogen Bulb |
| Illumination Type | 6° +0° Coaxial Illumination |
| Filters | Orange filter (cobalt filter is optional) |
| Coaxial Illumination | ≥40,000lx |
| Reaching Radius of Arm | 1020mm |
| Adjustable Vertical Range | ±250mm |
| Fine Focus Speed and Range | ≤2mm/s, 30mm |
| Speed for X-Y and Range | ≤2mm/s, 50mm×50mm |
| Input Voltage | AC220V±10% / 50Hz±1Hz、AC110V±10% / 60Hz±1Hz |
| Power | 200VA |
| Fuse | AC250V T4AL (51S-040H)、AC125V T8AL (51S-080L) |
| Electrical Safety Standard | Executive Standard:GB9706.1-2007、Class I |
| Packing Volume | 0.418 m³ 2cartons |



YZ20T9

Operation Microscope



Characteristics:

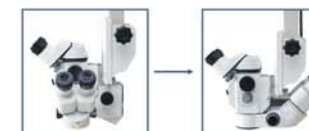
- Advanced apochromatic technology and unique optical balanced technology effectively improves the binocular visual fusions, strengthens in third dimension and reduces surgeon's tiredness during operations.
- Fine focusing knob is under the bottom of assistant binocular. The observation of the assistant's microscope can be finely focused independently of the main microscope to avoid different observation from surgeons.
- 20° oblique illumination can also be used as slit illumination. Slit width is continuously adjustable.
- For ophthalmic use.

Specifications:

| | |
|---|--|
| Eyeiece Magnification | 12.5×/18B |
| Objective Lens | f=200mm |
| Working Distance | 190mm |
| Magnifications for Main Microscope | 4×、6×、10×、16×、25× |
| Magnifications for Assistant Microscope | 6×、10×、16× |
| Diameter of Field | Φ58mm、Φ38mm、Φ23mm、Φ14mm、Φ9mm |
| Adjustable Diopter | ±5D |
| Adjustable Range for Pupil Distance | 50mm~75mm |
| Maximal Resolution | 119 LP/mm |
| Focus for Assistant Microscope | ≥30mm |
| Illumination Source | 12V/100W, cold reflection halogen bulb for medical use |
| Illumination Type | 6° +0° coaxial illumination of cold light source and 20° Oblique Illumination (It can be used as slit illumination) Slit Width is adjustable |
| Coaxial Illumination | ≥50000lx |
| Oblique Illumination | ≥45000lx |
| Reaching Radius of Arm | 1240mm |
| Adjustable Vertical Range | 850mm~1350mm |
| Fine Focus Speed and Range | ≤2mm/s, 50mm |
| Speed for X/Y and Range | ≤2mm/s, 50mm×50mm |
| Input Voltage | AC220V±22V/50Hz±1Hz、AC110V±11V/60Hz±1Hz |
| Power | 330VA |
| Fuse | AC250V T4.0A (51S-040H)、AC125V T8.0A (51S-080L) |
| Electrical Safety Standard | Executive standard :GB9706.1-2007、Class I |
| Packing Volume | 0.786 m³, 5cartons |
| Total Gross Weight | 213kg |

YZ20T4

Operation Microscope



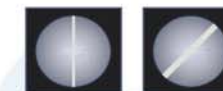
- Assistant microscope can be rotated to opponent microscope.



- Internal beam splitter can be connected with teaching tube and CCD system.



- Equipped with three different objective lenses (f200/f250/f300) and applicable in ophthalmic surgery, orthopedic surgery and hand surgery.



- Oblique illumination can also be used as slit illumination and slit width is adjustable.

Specifications:

| | |
|---|---|
| Eyeiece Magnifications | 12.5×/18B |
| Magnifications for Main Microscope | f200: 4X 6X 10X 16X 25X f250: 3.2X 5X 8X 12.8X 20X f300: 2.7X 4.2X 6.7X 11X 17X |
| Working Distance | f200:190mm f250:240mm f300:290mm |
| Magnifications for Assistant Microscope | f200: 6X 10X 16X f250: 5X 8X 12.8X f300: 4.2X 6.7X 11X |
| Adjustable Diopter | ±7D |
| Adjustable Range of Pupil Distance | 50mm~75mm |
| Maximal Resolution | 112 LP/mm |
| Illumination Source | 12V/100W, cold reflection halogen bulb for medical use |
| Illumination Type | 6° +0° coaxial illumination of cold light source and 20° Oblique Illumination (It can be used as slit illumination) Slit Width is adjustable, and its angle is 360° rotation. |
| Coaxial Illumination | ≥50000lx |
| Oblique Illumination | ≥45000lx |
| Reaching Radius of Arm | 1040mm |
| Adjustable Vertical Range | 850mm~1350mm |
| Fine Focusing Speed and Range | ≤2mm/s, 50mm |
| Speed for X/Y and Range | ≤2mm/s, 50mm×50mm |
| Input Voltage | AC220V±22V/50Hz±1Hz、AC110V±11V/60Hz±1Hz |
| Power | 330VA |
| Fuse | AC250V T4.0A(51S-040H)、AC125V T8.0A(51S-080L) |
| Electrical Safety Standard | Executive Standard: GB9706.1-2007、type I |
| Packing Volume | 0.727m³, 5cartons |
| Total Gross Weight | 210kg |

YZ20P5

Operation Microscope



Specifications:

| | |
|------------------------------------|--|
| Eyeiece Magnification | 12.5×16B |
| Objective Lens | f=200mm |
| Working Distance | 190mm |
| Magnifications for Main Microscope | 5.3×、8×、12× |
| Diameter of Field | Φ37mm、Φ25mm、Φ16.7mm |
| Adjustable Diopter | ±6D |
| Adjustable Range of 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±22V/50Hz±1Hz, AC110V±11V/60Hz1Hz |
| Power | 120VA |
| Fuse | T-type AC250V T1.25A, AC125V T2.5A |
| Electrical Safety Standard | Executive Standard: GB9706.1-2007, type I |
| Packing Volume | 0.2m³, 1carton |
| Total Gross Weight | 41kg |

- Column stand can be refitted to holding stand. It can also be customized according to various operation requirements.

Optional Accessories:

- 10X Eyepiece.
- Table installation parts(holding stand, split column).
- Video devices(1/2" or 1/4" CCD Camera, CCD Adapter, Beam Splitter and Connecting Cable).
- Straight Binocular, Universal Joint(for ENT).
- Magnifications and filed for optional objective lens:

| Big Objective Lens | Total Magnifications | Diameter of Field(mm) |
|--------------------|----------------------|-----------------------|
| f250mm | 4.2×、6.4×、9.6× | Φ47.5、Φ31、Φ21 |
| f300mm | 3.5×、5.4×、8× | Φ57、Φ38、Φ25 |
| f350mm | 3×、4.6×、6.8× | Φ67、Φ44、Φ30 |
| f400mm | 3×、4×、6× | Φ76、Φ50、Φ34 |

YZ20P6

Operation Microscope



Characteristics:

- Binocular operation microscope designed for single man can meet the requirements of general ophthalmic surgery.
- Germany optical lenses are all multi-coated. Image is clear and view field is even.
- 6° +0° coaxial illumination provides the red reflex.
- Reaching radius of microscope arm increases to 1030mm, which provides surgeon larger operation range.
- Cortical remnants on the posterior capsular can be clearly observed by the 6° +0° coaxial illumination.
- Position screw can protect the arm at any location from moving.

Specifications:

| | |
|--|--|
| Eyeiece Magnification | 12.5×/16B |
| Objective Focus | f=200mm |
| Working Distance | 190mm |
| Magnification for Main Microscope | 5.3×、8×、12× steps |
| Diameter of Field | Φ37mm、Φ25mm、Φ16.7mm |
| Adjustable Diopter | ±6D |
| Adjustable range for Pupil Distance | 50mm~80mm |
| Maximal Resolution | 100 LP/mm |
| Illumination Source | 12V/100W, cold reflection medical halogen bulb |
| Illumination Type | 6° +0° cold light coaxial illumination |
| Coaxial Illumination | ≥30000lx |
| Reaching Radius of Arm | 1030mm |
| Adjustable Vertical Range for Balanced Arm | 750mm ~ 1150mm |
| Fine Focus Range | 30mm |
| Input Voltage | AC220V±22V/50Hz±1Hz, AC110V±11V/60Hz±1Hz |
| Power | 120VA |
| Fuse | T-type AC250V T1.25A, AC125V T2.5A |
| Electrical Safety Standard | Executive Standard GB9706.1-2007 Class I |
| Packing Volume | 0.24m³, 1 carton |
| Total Gross Weight | 51kg |

YZ20P**Operation Microscope (multi-section)****Characteristics**

- The whole microscope is smart.
- Three-step magnifications
- Spring balance system in the arm ensures the microscope move freely.
- All of the lens are multi-coated, mildewproof and anti-reflection
- For optional objectives and other parts applicable to ENT, SURGERY and, Gynaecology.

**Specifications**

| | |
|-------------------------------------|--|
| Magnifications of Eyepiece | 12.5×/16B |
| Adjustable Diopter | ±5D |
| Adjustable Range for Pupil Distance | 55mm~75mm |
| Illumination Source | 12V/100W, Halogen Lamp |
| Illumination Type | 6° Coaxial Illumination |
| Coaxial Illumination | ≥30000lx |
| Reaching Range of Arm | 860mm |
| Adjustable Vertical Range | 850mm~1100mm |
| Voltage | AC220V±10%/50Hz±1Hz, AC110V±10%/60Hz±1Hz |
| Power | 120VA |
| Fuse | AC250V T1.25A, AC125V T2.5A |
| Electrical Safety Standard | IEC 601-1 |
| Whole Packing Volume | 0.283 m ³ |
| Carton Number | 2 |
| Total weight | 61kg |

| Objective/Working Distance (mm) | Magnification | Diameter of Visual Field (mm) |
|---------------------------------|---------------|-------------------------------|
| F200/190 | 6.6× | ø35 |
| | 10× | ø 22 |
| | 15× | ø 15 |
| F300/290(Optional) | 4.2× | ø 52 |
| | 6.7× | ø 34 |
| | 11× | ø 20 |

Optional Accessory

- F300mm Objective.

YD10**Ultrasonic Emulsification Instrument****Characteristics:**

- All functions of the machine, which contains aspiration, bipolar diathermy, irrigation/aspiration, three modes of ultrasonic phacoemulsification (standard, pulse, burst) and cut anterior vitreous, can fit for all needs of operations;
- Peristaltic pump can make the handle well followed lens nucleus;
- Touch screen provides convenient and visual control and operation;
- Programmic footpedal design maintains IOP stably;
- Memorized function: Surgeons' setting specifications will be memorized and displayed through all the operation process until resetting specifications;
- Reflux function: That the obstruction in the pipe can be refluxed maintain the stable anterior chamber;
- Frequency will be proportion to vacuum pressure with sound indication changed;
- All specifications will be displayed by digital, and all controlled numbers will be real-time, conveniently and definitely displayed.

Specifications:

| | |
|---|---|
| Mainframe size | 510mmX318mmX256mm |
| Mainframe weight | 15kg |
| Power | AC220V/50Hz 110V/60Hz |
| Flux | 6-40ml/min, 35 Forwards, every forward continuously adjustable |
| Vacuum | 67-666hPa, 46 forwards, every forward continuously adjustable |
| Standard ultrasonic Phacoemulsification | 40Hz, max swing ≥ 100 um, 0%~100% continuously adjustable by footpedal; |
| Pulse ultrasonic Phacoemulsification | 1~100 Hz |
| Burst ultrasonic Phacoemulsification | open time 0-500ms, closing time 0-500ms, ultra controlled by footpedal; |
| VIT cut frequency | 100-500 times/min, 9 forwards; |
| Diathermy | 300KHz, 5w, 600 Ω |

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