

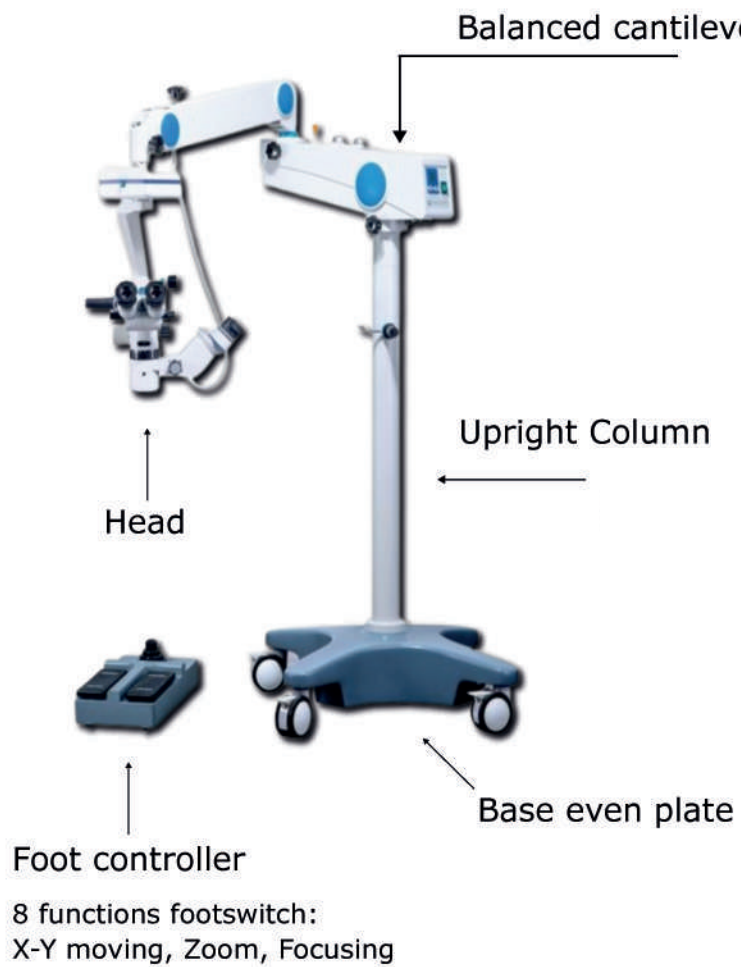


ES-OM LINE

Surgical Microscopes



OPHTHALMOLOGY / ENT



30°-90° Binocular tube can, suitable for different surgeons



The assistant tube can rotate 180° around the main tube to meet different observation needs



Application of knob interlocking system in glaucoma, inclination range ±90°



ES-OM610 Features	
Depth regulator to increase field depth of fields of view	High resolution and high resolution optical system design of a new optical system using the ES-OM-610/3C type microscope, three-dimensional sense of strong, large depth of field, cold light source and double optical fiber coaxial illumination, field luminance; foot controlled automatic focusing, micro zoom, and has visual, television and video as equal function, complete function, applicable to a variety of complex eye surgery, microsurgery and demonstration
Macular protector can protect Retina	
Double fiber 0 degree coaxial lighting and auxiliary oblique lighting are up to 100000lux to prevent surgical shadow	
175mm-40mm Various specifications objective lenses meet different needs	
30°-90° Variable angle binocular tube, alleviating long-term fatigue	
Main binocular tube and assistant tube use independent optical system, the same luminance, the same magnification, motorized continuous change 4-27 times	



Adjustable eyecup in eyepiece suitable for with glass and without glass



pupil distance 55mm-75mm



Adjustable Macular protector



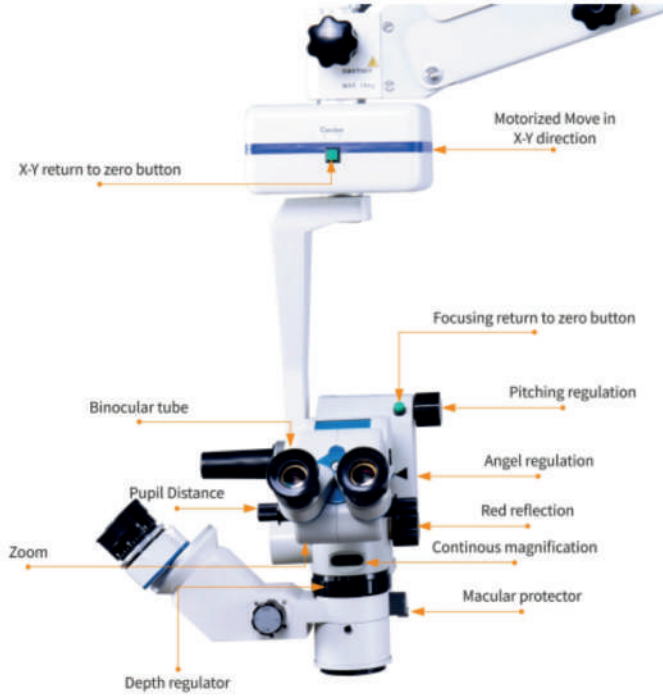
Electric & manual infinite zoom, zoom window can see the current magnification



Brightness adjustment digital display, simple, easy to use according to habits to choose brightness level

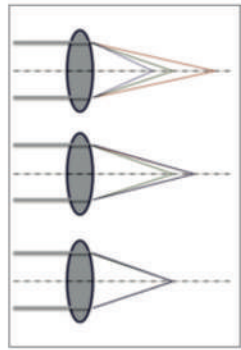


Equipped with spare light bulb, it can be switched quickly during operation

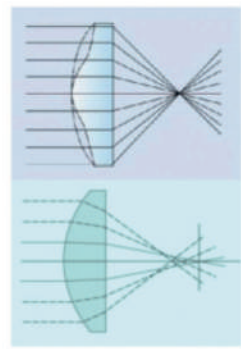


Technology

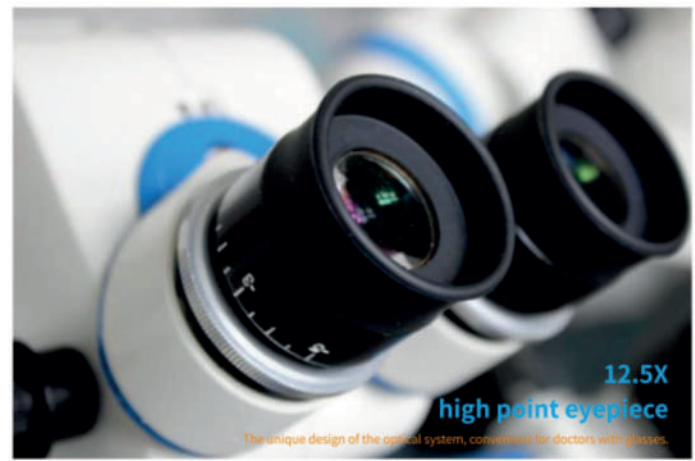
Multilayer coating technology, the light transmittance is up to 98%.
Through multilayer coating technology, we can reduce light reflection attenuation, increase light transmission and improve brightness. The multilayer coating technology we use can achieve optical energy passing rate of 98%.








Complex achromatic objective lens
Optical design of apochromatic correction can not only red green and blue three colors. Can correct the aberration of red, blue two color lights. Improve image resolution, contrast and depth of field



Aspheric lighting technology, better light gathering effect
The spherical illumination can not refract the light to the same surface, and cause the light to be more dispersed on the surface. The aspheric technology can increase the concentration effect and improve the brightness.



Depth regulator to increase field depth of field of view
In theory, only focal plane imaging is clear, but the operative surface is not in the same plane during the actual operation. The depth of field adjuster can make the imaging more extensive before and after the focus. There is no need for frequent focus adjustment in the operation.

Model	ES-OM510/3A	ES-OM610/3A	ES-OM610/3B	ES-OM610/3C	ES-OM/3
					
Magnification	Manual 6x 10x 16x	Manual 6x 10x 16x	Manual 6x 10x 16x	Manual 4,5x-27.3x	Manual 4,5x-27.3x
Footswitch	2 function: Focusing	2 function: Focusing	6 function: Focusing, X-Y moving	8 function: Focusing, X-Y moving, zoom	8 function: Focusing, X-Y moving, zoom
Illumination	LED 60000 lux	Halogen lamp 60000 lux/ LED	Halogen lamp 60000 lux/ LED	Halogen lamp 60000 lux/ LED	Halogen lamp 100000 lux
Assitant tube	No	Included	Included	Included	Included
Weight	68kg	107kg	117kg	125kg	164kg

Configuration

ES-OM510/3A	Eyepiece	The magnification is 12.5 times, the adjustment range of pupil distance is 55mm ~ 75mm, and the adjustment range of diopter is + 6D ~ - 6D
	Binocular tube	45 ° main observation
	Magnification	Manual 3-step changer, ratio 0.6, 1.0, 1.6, total magnification 6x, 10x, 16x (F 200mm)
	Illumination	LED cold light, illumination intensity > 60000lux
	Focusing	F200mm (250mm, 300mm, 350mm, 400mm etc)
	Filter	Filters Heat-absorbing, blue correction, cobalt blue and green
	Maximum length of arm	Maximum extension radius 1100mm
	Handle controller	2 functions
	Optional function	CCD image system
	Weight	68kg
ES-OM610/3A	Eyepiece	The magnification is 12.5X, the adjustment range of pupil distance is 55mm ~ 75mm, and the adjustment range of diopter is + 6D ~ - 6D
	Binocular tube	45 ° main observation
	Magnification	Manual 3-step changer, ratio 0.6, 1.0, 1.6, total magnification 6x, 10x, 16x (F 200mm)
	Coaxial assistant's binocular tube	Free-rotatable assistant stereoscope, all direction circumvolve freely, magnification 3x~16x; field of view $\Phi 74 \sim \Phi 12 \text{mm}$
	Illumination	50w halogen light source, illumination intensity > 60000lux
	Focusing	F200mm (250mm, 300mm, 350mm, 400mm etc)
	Filter	Filters Heat-absorbing, macular filter
	Maximum length of arm	Maximum extension radius 1100mm
	Handle controller	2 functions
	Optional function	CCD image system
Weight	108kg	
ES-OM610/3B	Eyepiece	The magnification is 12.5X, the adjustment range of pupil distance is 55mm ~ 75mm, and the adjustment range of diopter is + 6D ~ - 6D
	Binocular tube	45 ° main observation
	Magnification	Manual 3-step changer, ratio 0.6, 1.0, 1.6, total magnification 6x, 10x, 16x (F 200mm)
	Coaxial assistant's binocular tube	Free-rotatable assistant stereoscope, all direction circumvolve freely, magnification 3x~16x; field of view $\Phi 74 \sim \Phi 12 \text{mm}$
	Illumination	50w halogen light source, illumination intensity > 60000lux
	X-Y moving	Move in X-Y direction motorised, range +/- 30mm
	Focusing	F200mm (250mm, 300mm, 350mm, 400mm etc)
	Filter	Filters Heat-absorbing, macular filter
	Maximum length of arm	Maximum extension radius 1100mm
	Handle controller	6 functions
Optional function	CCD image system	
Weight	110kg	

ES-OM610/3C	Eyepiece	The magnification is 12.5X, the adjustment range of pupil distance is 55mm ~ 75mm, and the adjustment range of diopter is + 6D ~ - 6D
	Binocular tube	0° ~ 90° variable inclination main observation, pupil distance adjustment knob
	Magnification	6:1 zoom, motorized continuous, magnification 4.5x~27.3x; field of view Φ44~Φ7.7mm
	Coaxial assistant's binocular tube	Free-rotatable assistant stereoscope, all direction circumvolve freely, magnification 3x~16x; field of view Φ74~Φ12mm
	Illumination	LED light source , illumination intensity > 100000lux
	Focusing	F200mm (250mm, 300mm,350mm,400mm etc)
	X-Y moving	Move in X-Y direction motorised, range +/-30mm
	Filter	Filters Heat-absorbing,blue correction,cobalt blue and green
	Maximum length of arm	Maximum extension radius 1380mm
	New stand	swing angle of the carrier arm 0 ~300°,height from objective to floor 800mm
	Handle controller	8 functions (zoom, focusing, X-Y swing)
Optional function	CCD image system	
Weight	120kg	
ES-OM/3	Eyepiece	The magnification is 12.5 times, the adjustment range of pupil distance is 55mm ~ 75mm, and the adjustment range of diopter is + 6D ~ - 6D
	Binocular tube	0° ~ 90° variable inclination main observation, pupil distance adjustment knob
	Magnification	6:1 zoom, motorized continuous, magnification 4.5x~27.3x; field of view Φ44~Φ7.7mm
	Coaxial assistant's binocular tube	Free-rotatable assistant stereoscope, all direction circumvolve freely, magnification 3x~16x; field of view Φ74~Φ12mm
	Illumination	2 sets 50w halogen light source , illumination intensity > 100000lux
	Focusing	F200mm (250mm, 300mm,350mm,400mm etc)
	X-Y moving	Move in X-Y direction motorised, range +/-30mm
	Filter	Filters Heat-absorbing,blue correction,cobalt blue and green
	Maximum length of arm	Maximum extension radius 1380mm
	New stand	swing angle of the carrier arm 0 ~300°,height from objective to floor 800mm
	Handle controller	8 functions (zoom, focusing, X-Y swing)
Optional function	CCD image system	
Weight	169kg	

Optional



CORDER Camera System

Configure the wireless mouse operation, without the computer, free access to high definition images. The product interface is rich, HDMI and USB are synchronously output, high speed SD cards are photographed or recorded video. At the same time, it has the same screen image contrast, HDR (wide dynamic), image freezing, image inversion, digital amplification and other functions. It is widely used in video conferencing, telemedicine, micrograph, video projection and other fields.



360° rotating assistant tube



0-200° Binocular tube



CCD



CCD Interface



Camera adaptor



175/200/250/300/350/400mm Lens



180-300mm Zoom Lens



Display screen



Splitter



Wedge-shaped splitter



Xenon lamp



Mobile adaptor



Size	138*50*170mm
weight	0.5KG
Storage and operating conditions	Temperature:+10°C to +40°C
sterility	Sterilize before use
materials	Surgical grade materials
Condenser lens assembly	Manual
Lens positioning unit	Rotational Assembly
Lenses	130°
	90°
Mounting kits	Zeiss
	Leica
	Topcon
	Takagi
	CORDER

Fundus Examination

Used in conjunction with a slit lamp microscope, general fundus examination, double-sided aspheric surface, excellent imaging quality. Curved mirror body, comfortable to hold.

Super 78

1. Suitable for pan retinal examination.
2. Optical glass material, high-quality imaging.
3. Double-sided aspherical lens.

Super 90

1. Compared with Classic 90, the fundus area observed is larger.
2. Suitable for pan retinal examination.
3. Field of view increased to 116°.



Super 90

1. Use with microscope

Surgery 130WF NA - XO130WFN

Combined with surgical microscope, vitrectomy surgery, all-optical glass body, binocular aspheric surface, excellent imaging quality. Large viewing angle.

The obvious difference is the way the two models are sterilized:

1. XO130WFN is Ethylene oxide disinfection.
2. XO130WF sterilizes with high temperature and high pressure.

2. Special Purpose Series

Depth Vitreous - XIDV

Combined with ophthalmic laser, vitreous ablation laser surgery, all-optical glass mirror body, optical glass contact lens, excellent imaging quality. Treatment of fundus floaters.



XIDV

3. Combined with fundus laser

Laser Classic 130

1. For retinal detachments of the usual range.
2. High quality general diagnostic and laser therapy lenses.
3. Good PDT and PRP performance.

Laser mini 160

1. Smaller housing simplifies orbital manipulation.
2. Optical glass material, highest resolution imaging.
3. Good performance of PRP.

Gonioscopy

Combined with fundus laser, fundus photocoagulation, all-optical glass lens body, excellent imaging quality. Curved mirror body, comfortable to hold. Suitable for fundus and chamber angle inspection and laser treatment.



XLIRIS

Gonio Suspended Lens With Handle -XGSL

Combined with operating microscope, glaucoma surgery, all-optical glass lens body, excellent imaging quality. The suspendable mirror frame is convenient to adapt to the eye movement during the operation, stable imaging of the angle of the room, and ensures the quality of the angle surgery.



XGSL

Fundus Examination

Model	Field	Magnification	Laser Spot Magnification	Working distance
Classic 20	46°/ 60°	3.13	0.32	50mm
Classic 90	74°/ 89°	0.76	1.32	7 mm
Super 78	82°/ 98°	1.05	0.95	10mm
Super 90	95°/ 116°	0.76	1.31	7 mm
Master 90	104°/ 125°	0.72	1.39	4.5mm
Primary 90	72°/ 86°	0.82	1.22	7.5mm
Primary 78	82°/ 98°	1.03	0.97	10mm
Master Mag	66°/ 78°	1.2	0.83	13mm

Use with microscope

Model	Field	Magnification	contact lens diameter	Lens barrel diameter
XO130WFN	112°-134°	0.39x	11.4mm	21mm
XO130WF	112°-134°	0.39x	11.4mm	21mm

Special Purpose Series

Model	Magnification	Laser Spot
XIDV	1.18x	0.85x
XLIRIS	1.67x	0.6x
XLCAP	1.6x	0.63x

Combined with fundus laser

Model	Field	Magnification	Laser Spot
XLP84	70°/84°	1.05x	0.95x
XLC130	120°/144°	0.55x	1.82x
XLM160	156°/160°	0.58x	1.73X
XLS165	160°/165°	0.57x	1.77x

Gonioscopy

Model	Field	Magnification	Laser Spot Magnification	Contact Surface Diameter
XGM1	62°	1.5X	0.67X	14.5mm
XGM3	60°/66°/76°	1.0X	1.0X	14.5mm

Gonio Suspended Lens With Handle -XGSL

Model	Magnification	Handle Length	Contact Lens Diameter	Effective Caliber	Positioning Diameter
XGSL	1.25X	85mm	9mm	11mm	14.5mm



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