

SM621 Ophthalmic Surgical Microscope

See Everything in Details



Cutting-edge Optic Design

High quality optical lens with Apochromatic(APO) design and multi-layer optical coating brings high resolution and deep depth of field, enables high comfort during the surgery.

Motorized ZOOM System

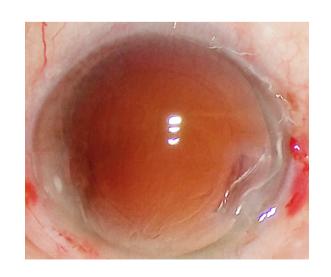
The SM621 adopts motorized ZOOM system to reduce discomfort when the field of view changes.

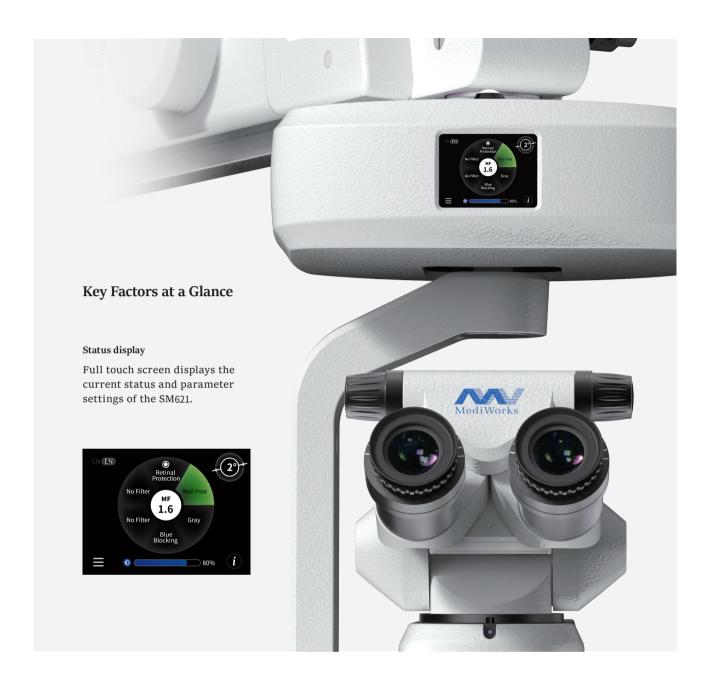
Independent Assistant Microscope

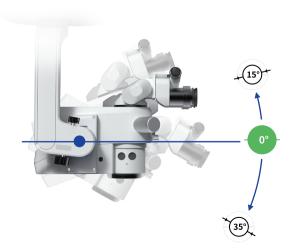
SM621's assistant microscope adopts independent optical path which is independently from surgeon's microscope, it has 5 steps magnification changer.

Bright and Stable Red Reflex

Red reflex by Stereo Coaxial Illumination (SCI) makes surgeons can see fine structure under weak light, easily perform continuous circular capsulorhexis (CCC) and aspirate residual lens cortex.







Adjustable balance system

The inclination of microscope head can be easily adjusted upwards and downwards while keeping balance. The inclination degree ranged from 15° upwards to 35° downwards will be shown on the "Status Display".





Auto Power-off Protection

The SM621 will automatically enters the powered-off state when the secondary arm is raised to a certain height. It will greatly facilitate surgeon's operation and extend the service life of lamp source.

X-Y-Z Axis Fine Adjustment

Accurate lateral and longitudinal X-Y-Z axis movements for precise positioning during surgeries.

• 180°

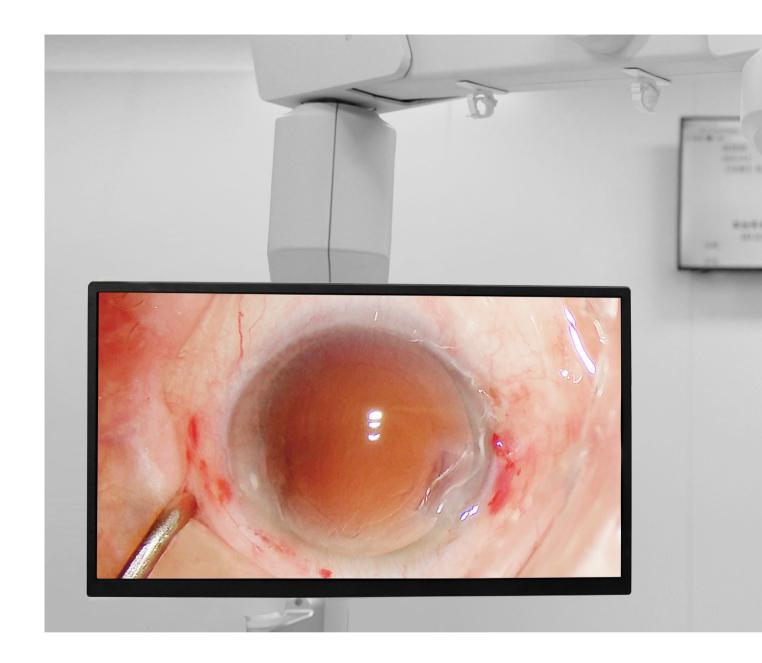
The binocular tubes of surgeon's microscope and assistant's microscope can be smoothly adjusted from 0° to 180° .



Wireless Foot Switch

The wireless foot switch can totally control 14 functions of SM621, surgeons can easily adjust the brightness and zoom magnification, switch the filters and backup bulb etc. Without any hand movement.

- 1 Illumination on/off
- 2 Filter switch
- 3 Brightness +
- 4 Brightness -
- 5 XY axis reset
- 6 Backup bulb switch



4K High Resolution Video

Optional 4K digital module with low noise, high sensitivity and good image quality. It can be used for surgery teaching, academic research, patient case sharing which helps bring more harmonious communication between doctors and patients.

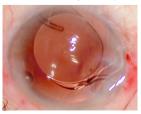
Enhanced Depth of Field

Adjustable aperture can meet different needs of brightness and depth of field.





Anterior Continuous Curvilinear Capsulorhexis (ACCC)



IOL Implantation



Aspirate Lens Nucleus and Residual Cortex



IOL Cetered

Clinical Applications

Ocular anterior segment surgeries

Cataract phacoemulsification combined with intraocular lens implantation, glaucoma surgery, ICL implantation, pterygium surgery, ocular trauma surgery, orbital plastic surgery, etc.

Ocular posterior segment surgeries

Vitrectomy, intravitreal injection, etc.

Specifications

Surgical Microscope	Motorized zoom system with apochromatic lens, zoom ratio 1:6
	Magnification factor γ = 0.4 to 2.4
	Focusing: electric, focus range: 50 mm
	Objective lens: f = 200 mm
	Binocular tube: 0 - 180°, tiltable tube f = 170 mm
	Wide-angle eyepiece 12.5 x
	Assistant microscope manual magnification change: 5 steps
Illumination	Stereo Coaxial Illumination (SCI): Red reflex and full-field illumination
	LED illumination
	One-touch automatic bulb exchange
	Blue blocking filter
	25% gray filter
	Red-free filter
	Retinal protection filter
	Aperture diameter: 50 mm
X-Y Coupling	Movement range: max. 50 mm x 50 mm
	Automatic centering by pressing the reset button
Suspension System	Floor stand
	Maximum load capacity
	15 kg (complete equipment, including accessories)
	Electromagnetic locking
	Maximum extension radius of spring arm 1270 mm, 360° rotation
	Vertical moving range of the spring arm: 200 mm up and 300 mm down
	Universal casters
Foot Control Module	14 functions wireless foot switch



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