



## **EOM 1 Ophthalmic Surgical Microscope**

See Everything in Details

# See Everything in Details

New Visual Experience



## 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

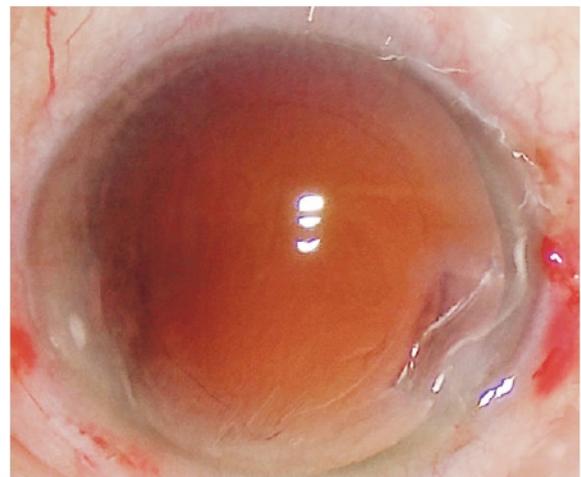
The EOM 1 adopts motorized ZOOM system to reduce discomfort when the field of view changes.

## Independent Assistant Microscope

EOM 1'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 coaxial illumination makes surgeons can see fine structure under weak light, easily perform continuous circular capsulorhexis(CCC)and aspirate residual lens cortex.

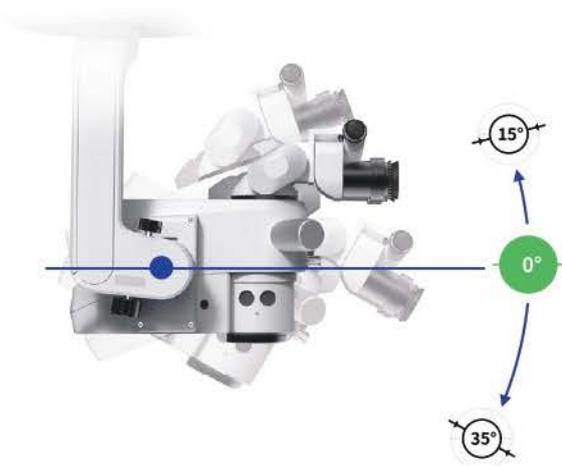




### Key Factors at a Glance

#### Status display

Full touch screen displays the current status and parameter settings of the EOM 1.



### 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".

## More Comprehensive More Details

### Electromagnetic Locking System

The EOM 1's electromagnetic locking system makes it easy to position it at the desired angle with the lightest of touches, and the primary and secondary arms can be rotated 360°, making the EOM 1 adaptable to a wide range of applications.

### Security Guarantee

Built-in backup power supply, easy bulb exchange and security lock on secondary arm ensure safe surgery.





## • Auto Power-off Protection

The EOM 1 will automatically enter 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°

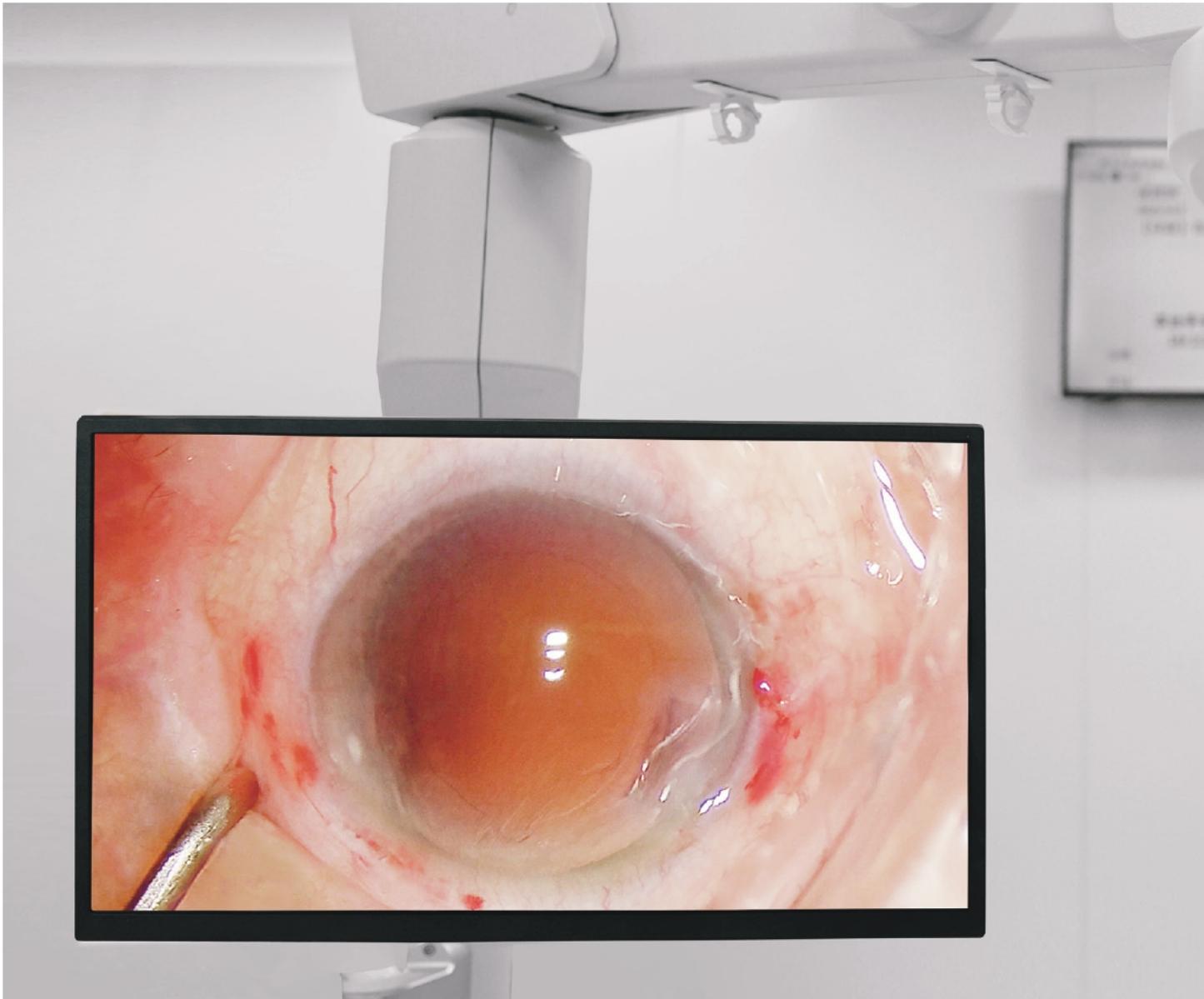
The binocular tubes of surgeon's microscope and assistant's microscope can be smoothly adjusted from 0° to 180° .



## • Foot Control Panel

The foot control panel can totally control 14 functions of EOM 1, surgeons can easily adjust the light and zoom magnification, switch the filters and backup LED etc. Without any hand movement.

- |                |                 |
|----------------|-----------------|
| 1 Light on/off | 2 Switch filter |
| 3 Light +      | 4 Light -       |
| 5 Reset XY     | 6 Backup LED    |



## **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)



Aspirate Lens Nucleus and Residual Cortex



IOL Implantation



IOL Centered

## 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.



## Non-Contact Wide-Angle Fundus Viewing System

A wide and sharp surgical field of view guarantees the success of vitreoretinal surgery



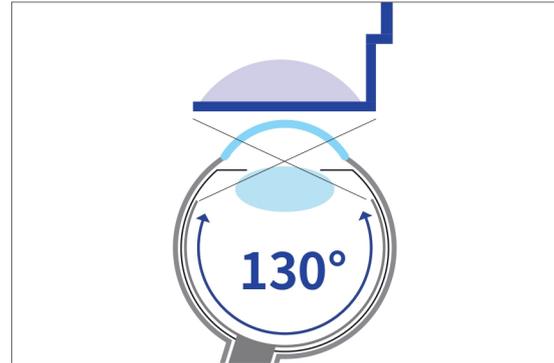
## Eyevis Non-Contact Wide-Angle Fundus Viewing System

- ★ Comprises a [Fundus Viewing System](#) and a [StereOptic Inverter](#) integrated with a 532m laser filter.
- ★ Specially crafted for retina surgeons to precisely seize every detail of the fundus, allowing them to handle various vitreoretinal surgeries effortlessly.

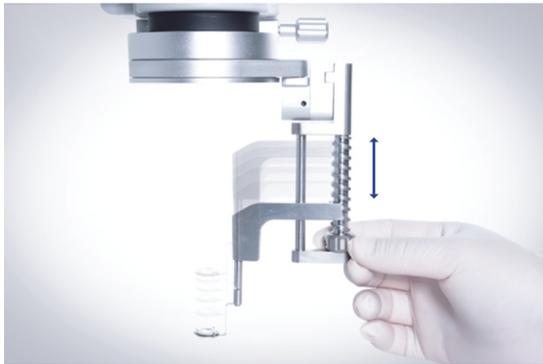
# Fundus Viewing System

## Wide-angle, high-definition and stereoscopic imaging

- ★ A super-wide vitreoretinal surgical field of view reaching up to 130° allows surgeons to catch sight of the retina near the ora serrata.
- ★ Ultra-high-resolution coaxial imaging offers a strong stereoscopic perception without any distortion or aberration at the periphery.



## Large focusing range and sufficient operating space



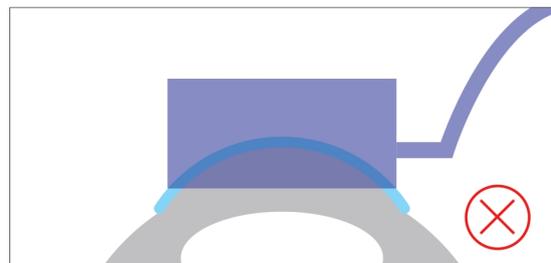
- ★ The rotary focusing knob with a large focusing range is conducive to fine adjustment, enabling precise focusing on the posterior segment in the course of the operation.



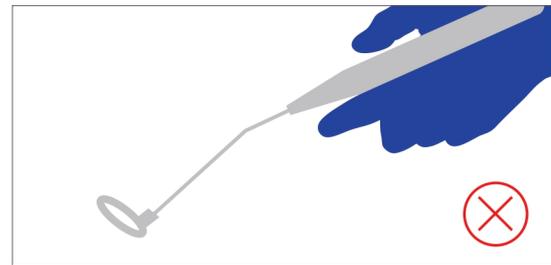
- ★ The 360° horizontally rotatable lens holder, coupled with the optional 13mm small-diameter wide-angle lens, assures surgeons of having sufficient operating space.

## Safety, efficiency and cost-effectiveness

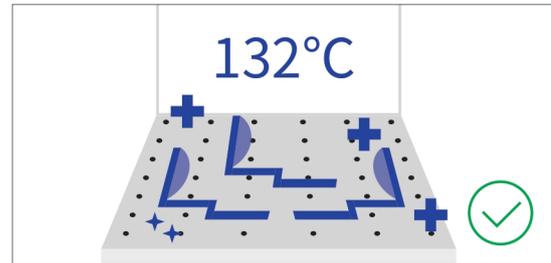
- ★ Non-contact design avoids corneal irritation, damage and infection, etc.



- ★ There is no necessity to manually hold or frequently replace lenses during the surgery, liberating the operational burden of the surgeon and the assistant, enhancing the fluency and efficiency of the surgery.



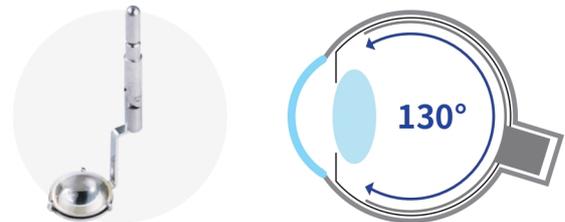
- ★ As the titanium alloy lens holder and the lenses are both autoclavable and the image quality won't decline after repeated uses, thus making it a cost-effective choice.



## Three options fulfill various requirements of vitreoretinal surgeries

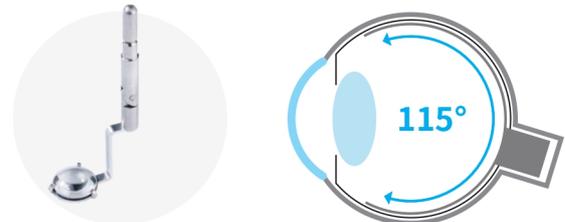
### Wide-angle

- ★ Enables a clear view of the widest retina range from the posterior pole to the ora serrata.



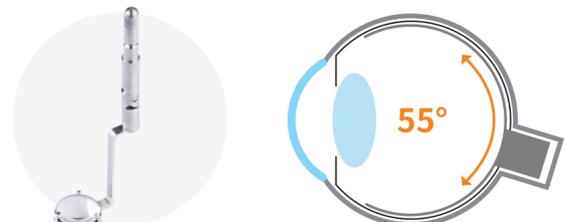
### Small-diameter wide-angle

- ★ Small-diameter design is suitable for patients with small pupils or deep-seated eyes, and children.
- ★ The highly peripheral retina can be clearly observed.



### Mid-field

- ★ Provides the clearest stereoscopic view of the macular area.
- ★ The retina close to equator can also be sighted.





## StereOptic Inverter



### The built-in laser filter safeguards surgeons' eyes

- ★ The elaborately built-in 532nm laser filter blocks the harm of laser reflection from the fundus, providing ultimate protection for surgeons' eyes.



### Single-lens inversion for an effortless fundus viewing

- ★ The StereOptic Inverter realizes single-lens inversion to create an upright image, perfectly suiting the habits of retina surgeons and making fundus viewing effortless.



### Ergonomically designed

- ★ The laser filter is built in the ultrathin inverter and adds no extra height to the eyepiece of microscope, which won't affect surgeons' operating comfort at all.

# Specifications

## Performance parameters of fundus viewing system

Model	Wide-angle	Small-diameter wide-angle	Mid-field
			
Field of View	100° / 130°	95° / 115°	45° / 55°
Magnification	0.4X	0.43X	1X
Diameter	18 mm	13 mm	13 mm

# Eyevis Ophthalmic Microsurgery Products

Empower you to embark on the journey of successful ophthalmic surgery

### EOM 1

#### Ophthalmic surgical microscope



- Cutting-edge optic design
- Bright and stable red reflex
- Motorized stepless zoom system
- Status display screen
- 4K high resolution video

#### StereOptic Inverter



- The built-in laser filter safeguards surgeons' eyes
- Single-lens inversion for an effortless fundus viewing
- Ergonomically designed

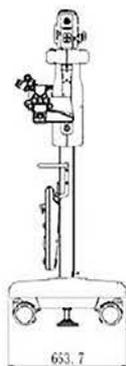
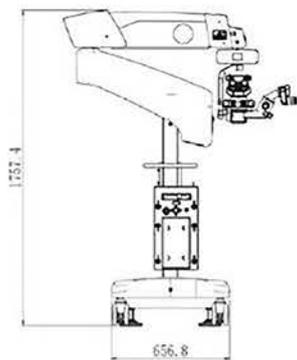
#### Fundus viewing system



- Wide-angle, high-definition and stereoscopic imaging
- Large focusing range and sufficient operating space
- Safety, efficiency and cost-effectiveness

# Specifications

<b>Suitability for Type of Surgery</b>	Anterior (e.g. Cataract), Posterior (e.g. Retina)	
<b>Surgical Microscope</b>	Motorized zoom system with apochromatic lens, zoom ratio 1 : 6	
	Magnification factor = 0.4 to 2.4 (Total Magnification: 4x to 25.6x)	
	Focusing: electric, focus range: 50 mm	
	Objective lens: f = 200 mm	
	IPD Adjustment range : 52mm to 75mm	
	Binocular tube: 0 - 180°, tiltable tube f = 170 mm	
	Wide-angle eyepiece 12.5x / 10x (Optional)	
	Assistant microscope manual magnification change: 5 steps	
<b>Illumination</b>	Coaxial Illumination: Red reflex with On/Off facility 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: 50mm	
	<b>X-Y Coupling</b>	Movement Range: 62mm x 62mm
		<b>Suspension System</b>
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		
<b>Foot Control Panel</b>	Universal casters	
	14 Functions (water proof) & wireless with 3 meter backup cable	
<b>Weights and Measurements</b>	Microscope weight: 200 kg	
	Package weight: 307 kg	
	Microscope Dimension: 1300 mm x 664 mm x 1760 mm (L/W/H)	
	Package Dimension: 1035 mm x 835 mm x 2005 mm (L/W/H)	



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