# EVOLUTION Z00M 

## FOCUS ON PRECISION.




Our eyes are one of the most fragile organs in our body. When they require surgery, it is a meticulous and detailed procedure. The Seiler Evolution Zoom Microscope for Ophthalmology provides a detailed look at all areas of the eye. With advanced features such as enhanced Red Reflex, this microscope is designed to provide accurate imaging during cataract surgery, laser eye surgery, and other precision eye surgeries. This microscope also features an XY movement pedal, perfect for hands-free operating. In addition to this state-of-the-art microscope with its built-in features, Seiler offers a variety of accessories to improve any surgeon operation. Items that can be added to this microscope include a beam splitter, camera equipment, an assistant teaching head, and Xenon light. All Seiler Microscopes feature APOchromatic lenses, LED illumination, and an ergonomic sitting position for superior comfort.


X-Y System


Binocular for second observer

Hero 4 has been modified so you can select the right lens for a given shot and capture 1080P video.



Video image capture system


SRI Slim Image re-inverter system for vitrectomy surgery

$200^{\circ}$ Inclinable binocular head


Easily attach any Sony, Canon, or Nikon DSLR camera directly to the microscope for high quality, razor sharp images.


SeilerMax Adapter for use with wide angle, non-contact lenses

The Seiler Ophthalmology ZOOM surgical microscope incorporates an elegant design and superior optical quality, to offer excellent deep focus with a distorting-free image.


## Seiler Red Reflex

Highly Optimized Red Reflex System
Seiler red reflex has been developed and incorporated into the Seiler microscope to provide perfect illumination in any surgical situation, with excellent color, contrast and deep focus performance.


Without Red Reflex


With Red Reflex

## Apochromatic Optics

- Excellent contract and image definition
- Exceptional depth of focus
- High light transmission enabling work in low lighting conditions
- Residual aberration corrections to improve image quality


## Bright Illumination

- Bright and stable red reflux
- Large illumination field, 60 mm
- Blue and red-free filters available
- Quick and precise bulb change mechanism
- LED Illumination


## Stand

- Robust and stable
- Smooth, precise movement
- Integrated braking system


## Advanced Electronic System

- Automatic, stabilized power source for greater security
- Microfocusing and $X-Y$ reset system
- System Tested and certified against electronic shocks and EMI


Electronic Control Panel


Stable floor stand with integrated wheels with blocking system and level adjustment knob


Multifunction foot pedal with on/off switch and illumination intensity, micro focus, zoom and XY device controls

## TECHNICAL SPECIFICATIONS

| OPTICAL SYSTEM | APOCHROMATIC WITH ALL OPTICAL ABERRATION CORRECTION |
| :---: | :---: |
| STANDARD OBJECTIVE | 250MM |
| MAGNIFICATIONS | MOTORIZED ZOOM 1:6 |
| MAGNIFICATION WITH STANDAR OBJECTIVE | FROM 4X TO 23X CONTINUOUS |
| FILED OF OBSERVATION | FROM 8 MM TO 60 MM |
| OCULARS | 12,5 X |
| OCULAR DIOPTER ADJUSTMENT | -6D TO + 6D |
| STANDARD BINOCULAR | 200 DEGREES (INCLINABLE) |
| INTERPUPILLARY DISTANCE ADJUSTMENTE | FROM 48MM UP TO 78MM |
| MICROFOCUS | MOTORIZED (JOYSTIC ON HANDS AND FOOD PEDAL CONTROL) |
| MICROFOCUS DISPLACEMENT | +/-20MM |
| STADARD ILLUMINATION | LED SYSTEM UP TO 120K LUX (HALOGEN AVAILABLE) |
| ILLUMINATION FIELD | 55MM DIAMETER |
| FILTERS | HEAT ABSORBING, UV ABSORBING, GREEN, BLUE BLOCKER AND halogen simulator |
| STANDING | MOVABLE WITH PANTOGRAPHIC ARM |
| MAXIMUM VERTICAL SHIFT | 0.6M |
| MAXIMUM REACH | 1.2M |
| MAXIMUM ROTATION | 570 DEGREES |
| BASE DIMENSIONS | 840MM X 840MM WITH WHEELS AND LOCKER KNOB |
| FOOT PEDAL | MULTIFUNCTION WATER RESISTANT |
| VOLTAGE | FULL RANGE FROM 90VAC UP TO 240VAC ATUOMATICALY 50 60 HZ |
| POWER CONSUMPTION | 200 VA |
| ACCESSORIES |  |
| MOTORIZED XY | TOTAL RANGE IN EACH AXIS +/- 22MM |
| SECOND OBSERVER | OCULAR 12,5X / BINOCULAR FIXED 45o OR INCLINEBLE 2000 AND 360 DEGREES OF ROTATION |
| IMAGE INVERTER FOR VITRCTOMY SURGERIES | SLIM SYSTEM HIGH QUALITY IMAGES |
| OPTIONAL ILLUMINATION SYSTEM | HALOGEN 150W - 80K LUX AND XENON 180W-150K LUX |
| VIDEO SYSTEM | IMAGE SPLITTER + CAMERA ADAPTER + DIGITAL CAMERA |
| OTHER OBJECTIVES | 175MM, 250MM, 300MM, 350MM AND 400MM |

