

# DENTAL PRODUCTS

FOCUS ON PRECISION.



# ABOUT SEILER

Optical instruments have been a Seiler family tradition since 1913 when company founder, Eric H. Seiler, entered the ZEISS School of Fine Optics in Jena Germany. After earning a Master's degree in Fine Optics, Eric H. Seiler brought his craft to the United States where he and his wife, Dora L. Seiler, started Seiler Instrument and Manufacturing Company in 1945.

Seiler stays current with new technologies by adding sophisticated tools and machines every year. Although computer numerical controlled (CNC) machines have replaced manually operated machines, there is still no replacement for old-world craftsmanship, a necessary attribute of every instrument manufactured or sold by Seiler Instrument. Technology may change, but one thing continues to endure—Seiler's dedication to excellence and customer service, a philosophy that breeds customer satisfaction.

Seiler's Medical Division offers an array of products geared to meet the technological demands of the dental, surgical and medical markets. As a worldwide leader in the field of Microscopy, Seiler prides itself on the use of high quality optics and precision machining to provide the market with the latest in magnification for a varied range of applications.

The Seiler Medical Division offers a wide variety of microscope products for both the Medical and Dental Markets. Colposcopes are available with a variety of options and attachments to suit any office, clinic or hospital; ENT scopes for Ear, Nose and Throat Doctors and Surgeons; Compound scopes for research, laboratory, and educational applications; Dental scopes for Enhanced General Dentistry and Endodontics; and LED Surgical Loupes for any applications needing low power magnification.

All Seiler Microscopes come equipped with: Apochromatic Lenses for superior clarity, the brightest light sources on the market and a smooth fluid movement for the ultimate in mobility. Seiler continues to stay at the forefront of fine optics and stands behind our products with a lifetime warranty on the optics and mechanics.

By tailoring the product lines to meet specific applications in the healthcare industry, Seiler Instrument has built a vast distribution network spanning six continents. Growing year by year, the Medical Division continues to seek new markets, diversify the product line, and improve service to the many disciplines in science and medicine.

To learn more about our company and the products we offer, visit our website: [www.seilerinst.com](http://www.seilerinst.com).

## THE DIVISIONS OF SEILER INSTRUMENT



Manufacturing



Geospatial



Medical

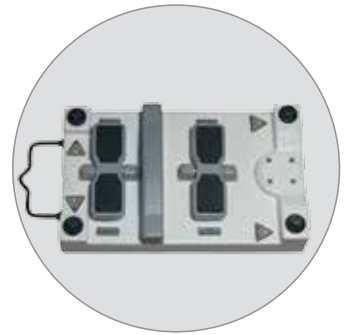


Planetarium



Design Solutions

# DENTAL OPERATING MICROSCOPES



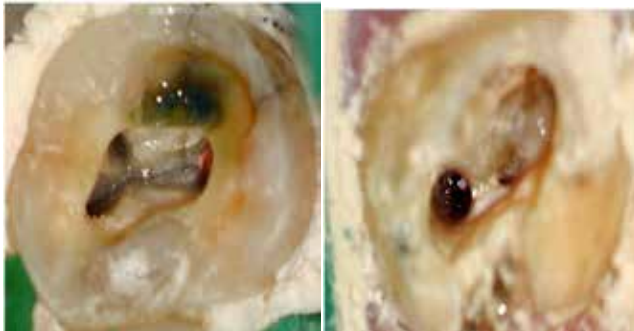
## EVOLUTION ZOOM

- Magnification Changer: Zoom 1:6 Motorized
- APOchromatic Objectives  $f=175\text{mm}-400\text{mm}$
- 10x Widefield Eyepieces Standard (12.5x, 16x or 20x available)  
Diopter adjustment +6/-6
- LED Illumination + 100,000 LUX, 50,000 hour life  
Optional: Xenon Illumination: 180,000 LUX  
Optional: Halogen Illumination: 80,000 LUX
- Motorized 40mm Fine Focus
- Optional XY Unit range 50mm with automatic reset Button
- Control Unit: Multi-functional Display for illumination, focus, zoom, and automatic reset
- Hand/Foot Switch: 14 function foot pedal and 8 function hand control grip
- Standard 0-220° Inclinable Binocular Head

# DENTAL OPERATING MICROSCOPES



YOU CAN'T FIX WHAT YOU CAN'T SEE!



## ALPHA AIR 6

- 6-Step Turret Magnification System
- 250mm Objective Lens
- 0-220° Binocular Head
- 10X Wide Field Eyepieces
- LED Illumination System: 150,000 LUX with 50,000 Hours of Life
- True Coaxial Through-the-Lens Illumination
- Red Free Filter Standard (Yellow and Green Filter)
- Standard Counterbalance System
- USB and 12 VDC Power Support on Optic Pod
- Lifetime Warranty on Optics and Mechanics

Optional:

- 175mm-400mm Objective Lens
- 45° Fixed-Inclined Binocular Head
- 12.5X and 20X Wide Field Eyepieces

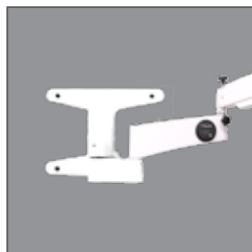
## MOUNTING OPTIONS



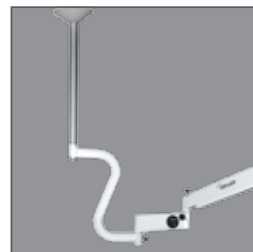
FLOOR



HIGH WALL



WALL



CEILING



TABLETOP

# DENTAL OPERATING MICROSCOPES

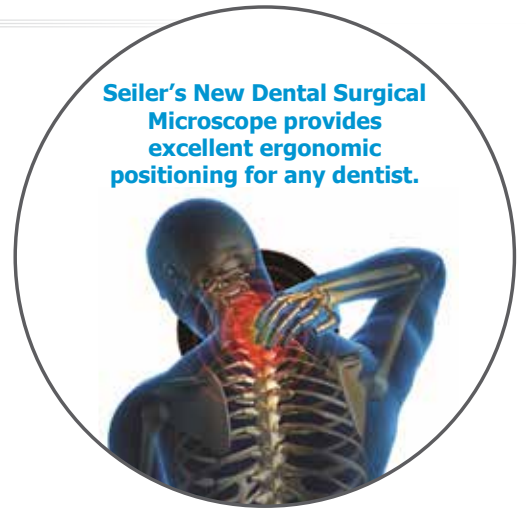
## ALPHA AIR 3

- 3-Step Turret Magnification System
- 250mm Objective Lens
- 0-220° Binocular Head
- 10X Wide Field Eyepieces
- LED Illumination System: 150,000 LUX with 50,000 Hours of Life
- True Coaxial Through-the-Lens Illumination
- Red Free Filter Standard (Yellow and Green Filter)
- Standard Counterbalance System
- USB and 12 VDC Power Support on Optic Pod
- Lifetime Warranty on Optics and Mechanics

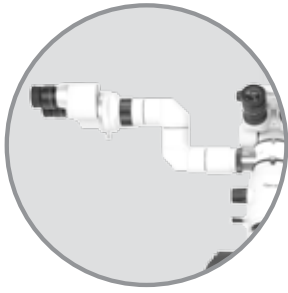
### Optional:

- 175mm-400mm Objective Lens
- 45° Fixed-Inclined Binocular Head
- 12.5X and 20X Wide Field Eyepieces

Seiler's New Dental Surgical Microscope provides excellent ergonomic positioning for any dentist.



# MICROSCOPE ACCESSORIES



## ASSISTANT TEACHING HEAD

Allows a second user to view the same procedure.



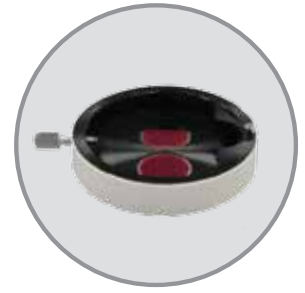
## 0-220° BINOCULAR HEAD

The inclinable head allows for a full 0-220° rotation. Seiler offers: 0-220° inclinable, Straight, and 45° inclined binoculars.



## WIDE-FIELD EYEPIECES

Standard 10x and 12.5x with eye guards, optional 16x and 20x.



## LASER FILTER

Provides protection from three different wavelengths ranging from 780-2940nm.



## BEAMSPLITTER

Specially designed to create the highest quality imagery. The port contains a 50/50 side for digital and 80/20 for video. Optional 50/50-50/50 available.



## EXTENDER ROTATION DEVICE

Extends user 5" from the optical pod and allows user to manipulate direction of optical pod while keeping head straight for a better ergonomic position.



## IRIS DIAPHRAGM

Allows the user to control the iris to give a much deeper depth of field.



## GO PRO HERO 4

Hero 4 has been specially modified to take still images and capture 1080P video.



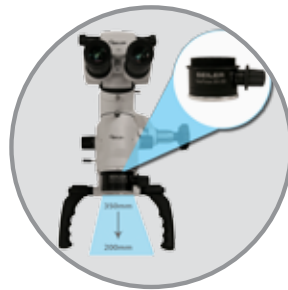
## DSLR CAMERA ADAPTER

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



## HD LIVE VIDEO CAMERA

View live true HD imaging in crisp and clear and high resolution.



## VARIO FOCUS

Never change an objective again. Stay in focus from 200mm to 350mm by simply turning the fine focus knob.



## DENTAL CHAIR

The Micro Surgeon Dental Stool is one of the most important components of the dental office providing correct ergonomics.

# DENTAL SURGICAL LOUPES



## SURGICAL LOUPES

- 2.5x, 3.0x and 3.5x magnifications. Provides vision not attainable with the naked eye.
- HIGH RESOLUTION – highest grade glass for excellent clarity.
- WATER SEALED – optics are sealed to prevent dust and moisture.
- DOUBLE HINGE FLIP-UP DESIGN – for superior optical alignment.
- GREAT DEPTH OF FIELD – comfortably extends the natural accommodation capability of the human eye.
- WIDE-FIELD – highly corrected optics that allows the entire mouth to be viewed.
- WORKING DISTANCE – Short (340mm or 13.4 inches), Regular (420mm or 16.5 inches), Long (500mm or 19.7 inches).

All Seiler loupes allow the user to set your interpupillary, convergence and declination angle for perfect optical alignment.

## FRAME STYLES



Available Colors:  
■ Metallic Blue  
■ Metallic Red  
■ Metallic Silver  
■ Black

### TITANIUM

Lightweight titanium frames allow the user to adapt an RX lens to the loupes.



Available Colors:  
■ Metallic Silver  
■ Black

### SPORT

The Sport Frame is a large durable frame that offers added protection against splash-back and debris.

## MAGNIFICATION LEVELS

### 2.5X

The entry level magnification that provides a wide field of view, which is exceptionally easy to get used to and is the most common magnification bought.

### 3.0X

The intermediate magnification level of which is good for a user that is familiar with loupes or has a need for additional magnification not provided by the 2.5x power.

### 3.5X

The most powerful loupe level in the Seiler Line of Loupes. This magnification level is used for specialists and users that have a smaller working field.

## WORKING DISTANCE

### SHORT | 13.4" (340MM)

The short working distance is 13.4 inches or 340mm.

### REGULAR | 17" (420MM)

The regular working distance is 16.5 inches or 420mm. The regular working distance is the most common working distance.

### LONG | 19" (500MM)

The long working distance is 19.7 inches or 500mm. The long working distance is generally used by a tall person.

## LED HEADLIGHT

The Seiler LED Loupe Light is designed with precision engineering to provide the brightest light available. Additional features are:

- Ultra Lightweight Design.
- Over 50,000 LUX.
- Supplies bright, white, shadow-free light.
- Variable Illumination
- Rechargeable Battery Pack makes this a complete portable, compact unit that allows the user freedom of movement.
- Seiler's high quality LED Light operating life expectancy is approximately 500 charge/discharge cycles.



# A COMMITMENT TO EXCELLENCE SINCE 1945

1913

Eric H. Seiler enters Zeiss-Jena School of Fine Optics in Jena, Germany and graduates with his Masters in Fine Optics. The Masters in Fine Optics will allow him to train the art of optics to others.

1945

After moving to the US and working for 20 years for another optical company, Eric H. Seiler and Dora L. Seiler start their own Optical Equipment and Repair Company in St. Louis, MO.



1947

Eric H. Seiler designs his first set of survey instruments for distribution

1949

Seiler Instrument was manufacturing over 100 products, confirming the establishment of both the Seiler Manufacturing Division and Survey Division.

1950

Seiler Microscope Division is formed to distribute Carl Zeiss (Jena) Microscopes to North America.

1968

Seiler Instrument and Manufacturing moves its headquarters from downtown St. Louis to a 50,000 sq. ft. facility in Webster Groves, MO. Seiler later purchases 2 other neighboring facilities for an expansion ultimately totaling around 78,000 sq. ft.



1987

Seiler Planetarium Division is established, representing Zeiss Planetaria throughout the United States and Canada.

1999

Seiler opens the Night Vision Division that would make and distribute day/night vision sniper rifle scopes for the police and U.S. Military.

2003

Seiler Instrument and Manufacturing earns the ISO 9001:2000 mark for all of its manufacturing practices to exemplify a worldwide quality standard.

2009

Seiler Instrument unifies all of its operations under one roof again with the purchase of a new 150,000 sq. ft. facility located at 3433 Tree Court Industrial Blvd, Kirkwood, MO.



2016

Seiler officially changes name of the Microscope Division to the Medical Division with the new design of Dental/Medical Surgical Microscopes.

