

SEILER

PRECISION MICROSCOPES



Dental Products Catalog

Optical instruments have been a Seiler family tradition since 1913 when company founder Eric. H. Seiler entered the Zeiss-Jena School of Fine Optics in Jena, Germany. With 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. His appreciation of fine craftsmanship and pride in his work contributed toward a philosophy aimed at quality and customer service, a legacy he passed on to his son, current president, Eric P. Seiler.

With Eric P. Seiler's business management skills and his father's extensive knowledge of optics, the company flourished and outgrew its original downtown St. Louis office. Seiler is now located in a suburban plant especially designed for optical instrument production. Today, a third generation has joined the company, sons Rick and Tom Seiler, whose management and sales skills contribute toward Seiler's growth and success.

Seiler believes a company is only as good as its people. That is why the company hires only experts in making precision optics and conducts on-going, in-house educational programs to make sure they stay that way. The people of Seiler have one additional qualification — an extra measure of personal pride in their work that guarantees quality.

Seiler keeps abreast of new technology with more sophisticated tools being added every year. Technology may change, but one thing continues to endure – Seiler's dedication to excellence and customer service, a philosophy that breeds customer satisfaction.

Since 1945, A Commitment to Excellence

The use of a Dental Surgical Microscope offers many benefits. The obvious benefit is better vision. With magnifications up to 30X, the surgical microscope provides vision not obtainable with loupes (Fig. 1). This improved vision allows you to perform most dental procedures, including cosmetic, crown and bridge and of course, endodontics easier and more effectively. As the general public becomes more aware of this improved treatment, it is just a matter of time before your patients will demand the use of a microscope.

Another benefit is posture. Perhaps you have felt the back and neck pain that often comes from using loupes. The constant bending can cause unwanted pain. When using a surgical microscope, the user's posture is more natural and straight. This improved posture can eliminate the back and neck pain. While using the microscope, you are able to maneuver the microscope to a position that allows you to keep good, healthy posture and still observe the patient (Fig. 2).

Figure 1



Mesio-Occlusal Tunnel Prep 2x



Mesio-Occlusal Tunnel Prep 8x



Mesio-Occlusal Tunnel Prep 13x

Figure 2



Using loupes requires you to bend over often, which can result in back and neck pain.



The use of a Dental Surgical Microscope allows you to sit straight, which helps to eliminate back and neck pain.

Revelation ZOOM

Catalog #	Description
MC-M3101	Revelation ZOOM Microscope, floor model
MC-M3101XY	Revelation ZOOM Microscope, floor model with Power XY
MC-M3104	Revelation ZOOM Microscope, wall model
MC-M3104XY	Revelation ZOOM Microscope, wall model with Power XY Revelation Xenon Option (180W Xenon Illumination System) Revelation Xenon Option XY (Xenon Illumination System)

Features:

- Inclinable Binocular Head
- Continuous Power Zoom w/ manual override
- Power Fine Focus
- Foot control panel for hands free operation of zoom, fine focus, light ON/OFF and joystick for XY, if so equipped.
- Counterbalanced, pantographic arm for perfect weight balance
- Extra bright dual Halogen Light Source with quick-switch to back up bulb
- Built in DC Power Supply for Seiler video camera
- Curing Light Filter
- Dual Positioning Handles
- Light Beam Columnator for Deep Viewing of Canals

Specifications:

Continuous Zoom magnification from 3x-20x (w/250 mm objective lens) with indicator window

Apochromatic objective lens F: 250 mm standard

Optional objectives: F: 200mm, 300mm, 350mm and 400mm

Inclinable Binocular head 0-60 degrees

Interpupillary distance adjustment from 42-75 mm

12.5x Eyepieces with diopter adjustment and lock

Observation field from 9mm to 54mm

Illuminated field of 55mm

Automatic Voltage Regulator to compensate for voltages ranging from 120V to 240V, 60 Hz

DC Power supply 12V 500ma

Orange Curing light filter blocks all light below 500nm

Twin 15V-150W halogen lamps

Dust Cover

Limited Lifetime Warranty



Fixed Inclined Binocular Head

Catalog #	Description
900-302S	Revelation Microscope, Floor Model
900-301S	Revelation Microscope, Wall Model
900-304S	Revelation Microscope, Ceiling Model
900-309S	Revelation Microscope, High Wall Mount Model Revelaton Xenon Option (180W Xenon Illumination System)

Includes Balanced Optical Pod with:

- Inclined binocular head
- Objective level Fine focus, 11mm
- Objective lens, $f:250\text{mm}$
- Magnifications of 3x, 5x, 8x, 13x, & 20x.
- Counter balanced pantographic arm (340° rotation)
- Long Fiber Optic Cable (1.7 meter)
- 150W/15V Halogen Lamp with
Coaxial Thru-The- Lens Fiber Optics
- Automatic regulation of line voltage — 90V to 250V
- 12.5 Wide Field Eyepieces with Dioptic Locks
(Bulb EFR 64634)



Revelation Series

Inclinable Binocular Head

Catalog #	Description
900-302-IS	Revelation Microscope, Floor Model
900-301-IS	Revelation Microscope, Wall Model
900-304-IS	Revelation Microscope, Ceiling Model
900-309-IS	Revelation Microscope, High Wall Mount Model
	Revelaton Xenon Option (180W Xenon Illumination System)

Includes Balanced Optical Pod with:

- 0°-60° Inclinable binocular head
- Objective Level fine focus, 11mm
- Objective lens, $f:250\text{mm}$
- Magnifications of 3x, 5x, 8x, 13x, and 20x
- Counter balanced pantographic arm (340° rotation)
- Long Fiber Optic Cable (1.7 meter)
- 150W/15V Halogen lamp with Coaxial Thru-The-Lens Fiber Optics
- Automatic regulation of line voltage — 90V to 250V
- 12.5x Wide Field Eyepieces with Dioptic Locks (Bulb EFR 64634)



Seiler 202

Catalog Number

202-002

203-002

204-002

205-002

206-002

Description

Model SSI-202

Floor Model

Model SSI-202

Table Model

Model SSI-202

Wall Model

Model SSI-202

Ceiling Model

Model SSI-202

High Wall Model

Features/Specifications:

- Fixed inclined head
- Counterbalanced pantographic arm
- Fiber optic illumination system with 15V 150 W Halogen illumination
- Manual focusing control
- Infinity corrected/coaxial illumination
- Easily maneuverable optical head with tension control knobs and handles
- Objective lens 250mm
- 3 magnifications of 5x, 8x, and 12x with 250mm objective working distance lens
- Power supply offers 2 built-in lamps for quick change if necessary
- 12.5x Hi-eyepoint wide-field eyepieces with fold-down rubber eyecups



Seiler 202 w/Inclinable Head

Catalog NUMBER

202-002-1

203-002-1

204-002-1

205-002-1

206-002-1

Description

Model SSI-202

Floor Model

Model SSI-202

Table Model

Model SSI-202

Wall Model

Model SSI-202

Ceiling Model

Model SSI-202

High Wall Model

Features/Specifications:

- 0-60° inclinable head
- Counterbalanced pantographic arm
- Fiber optic illumination system with 15V 150 W Halogen illumination
- Manual focusing control
- Infinity corrected/coaxial illumination
- Easily maneuverable optical head with tension control knobs and handles
- Objective lens 250mm
- 3 magnifications of 5x, 8x, and 12x with 250mm objective working distance lens
- Power supply offers 2 built-in lamps for quick change if necessary
- 12.5x Hi-eyepoint wide-field eyepieces with fold-down rubber eyecups



202/402 Series

Seiler 402

(same as 202-002 except has **motorized focusing** with foot control)

402-002-MOT Model SSI-402, Floor Model

403-002-MOT Model SSI-402, Table Model

404-002-MOT Model SSI-402, Wall Model

405-002-MOT Model SSI-402, Ceiling Model

406-002-MOT Model SSI-402, High Wall Model

Seiler 402 w/Inclinable Head

(same as 202-002 except has **motorized focusing** with foot control)

402-002-MOT-IModel SSI-402, Floor Model

403-002-MOT-IModel SSI-402, Table Model

404-002-MOT-IModel SSI-402, Wall Model

405-002-MOT-IModel SSI-402, Ceiling Model

406-002-MOT-IModel SSI-402, High Wall Model



Optical Pod Accessories and Beamsplitters

Video camera adapter with "C" mount	MC-218S
Beamsplitter (20/80) dual port	MC-A219S
Beamsplitter (50/50 - 20/80) dual port	MC-A314S
Angle Rotation Device	MC-A288S
Binocular head extender	MC-A317S
Tube Coupling for 2nd assistant binocular head	MC-A130S
Fixed Inclined binocular head	MC-A278S
Inclinable binocular head	MC-A242S
Straight binocular head	MC-A280S
Assistant Monocular Attachment	MC-A51S

Video Accessories

CCD Color Video camera (HIGH DEF) – (525 line res, analog, composite + s-video)	SI300002
CCD Color Video camera (460 line res., analog, composite output)	SI10001
15" Flat-Panel LCD Color Monitor	15MAGTV

Camera Accessories

Adapter for CoolPix/Sony digital cameras	MC-A292S
Universal camera adapter for digital cameras	SI8102990SX
Universal camera adapter for DSLRcameras	SI8194101-SLR
Photo Camera Adapter	MC-A52S
Photo Camera Adapter 2 (required T System)	MC-A55N

Eyepieces

20X Eyepiece (each)	MC-A920S
12.5X Eyepiece (each)	MC-A912S
10X Eyepiece (each)	MC-A910S

Objective Lenses

Objective lens f= 175mm	MC-A175S
Objective lens f= 200mm	MC-A2S
Objective lens f= 250mm	MC-A250S
Objective lens f= 300mm	MC-A3S
Objective Protector for Revelation	MC-A40
APO Objective lens f=200 for RevelationZOOM	MC-A276
APO Objective lens f=250 for RevelationZOOM	MC-A318
APO Objective lens f=300 for RevelationZOOM	MC-A319
APO Objective lens f=350 for RevelationZOOM	MC-A320
APO Objective lens f=400 for RevelationZOOM	MC-A321

Fiber Optic Cables and Bulbs

Fiber Optic Cable 1.3 meters	SI1300S
Fiber Optic Cable 1.7 meters	SI1700S
Fiber Optic Cable 2.1 meters	SI2100S
15V 150W Lamp	64634

Additional Accessories

Xenon Illuminator 300W Option	XENON300
Laser Filter	780-830 DIODE

202/402 Accessories

Optical Pod Accessories and Beamsplitters

Beamsplitter	202402-BS
Video adapter with "C" mount	202402-VA
Binocular head, straight	202402-01
Binocular head, fixed 45 degree inclined	202402-02
Inclinable binocular head 0-60 degrees	202402-ICL

Video / Digital Camera Attachments

CCD Color Video camera (HIGH RES) – (525 lines res, analog, composite + s-video)	SI300002
CCD Color Video camera (460 lines res, analog, composite)	SI10001
15" Flat Panel Monitor	15MAGTV
Universal camera adapter for digital cameras	SI8102990SX
Universal camera adapter for DSLRcameras	SI8194101-SLR

Objective Lens Options

Objective lens f= 200mm	P6-200
Objective lens f= 250mm	P6-250
Objective lens f= 300mm	P6-300
Objective lens f= 350mm	P6-350
Objective lens f=400mm	P6-400

Additional Accessories and Consumables

Eyepiece 12.5X	202-12.5X
Eyepiece 16X	202-16X
15V 150W lamp for 202/402	64636
Table stand	202402-TS
Protective lens cap	202402-PC
31" post for 202402 base	31-P
36" post for 202/402 base	36-P
Base with casters	202402-Base
600mm Extension arm	202402EXT6

Dental Stool

The Dental Stool incorporates one of the most effective ergonomic designs offered in an operator stool for doctors and assistants. The adjustable seat offers the user the ability to conform the stool to their seating habits. These adjustments include stool height, backrest height, back rest position (forward and back) and seat tilt. The seat is molded to ensure proper positioning of the body, providing the appropriate environment for a healthy back. The Stool will also enhance productivity and enable a healthy career.

Seiler Dental Stool

Catalog #	Description
SSS-222/1	Stool with (1) Relaxo Arm (Seamless Vinyl)
SSS-222/2	Stool with (2) Relaxo Arms (Seamless Vinyl)
SSS-222/L1	Stool with (1) Relaxo Arm (Leather)
SSS-222/L2	Stool with (2) Relaxo Arms (Leather)



Illumination System

Seiler Xenon 180 Illumination System

Catalog #	Description
XENON180	Xenon 180

Xenon- the brightest of the bright. Light up your life (and your patient's teeth) with our 180 watt xenon illuminator. Never be in the dark again.

- 180 watt short arc xenon lamp
- Lamp usage counter
- Brightness controller
- On/Off switch – hot restart capability
- 5500 degrees Kelvin color temperature (daylight temperature) for true color rendition
- Available in 110/115V or 220V circuit

The ideal illuminator for bright, crystal clear viewing and for critical photography, digital or film.



Loupes

The use of Surgical Loupes offer many benefits. The obvious benefit is better vision. With magnifications up to 3.5X, the surgical loupes provide vision not obtainable with the naked eye. This improved vision allows you to perform most dental procedures, including cosmetic, crown and bridge and of course, endodontics easier and more effectively. As the general public becomes more aware of this improved treatment, it is just a matter of time before your patients will demand the use of loupes.

Features

- **2.5x, 3.0x and 3.5x** magnifications. Provides vision not attainable with the naked eye.
- **HIGH RESOLUTION** – highest grade glass for excellent clarity.
- **WATERSEALED** – optics are sealed to prevent dust and moisture.
- **DOUBLE HINGE FLIP-UP DESIGN** – for superior optical alignment.
- **LIGHTWEIGHT** – All frames are 100% titanium.
- **GREAT DEPTH OF FIELD** – comfortably extends the natural accommodation capability of the human eye.
- **WIDEFIELD** – 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 intrapupillary, convergence and declination angle for perfect optical alignment.

SERIES	250	300	350
Magnification (approx.)	2.5x	3.0x	3.5x
Working Distance			
Short	13.4"	13.4"	13.4"
Regular	16.5"	16.5"	16.5"
Long	19.7"	19.7"	19.7"

Actual view with the naked eye



Available Colors

Metallic
Blue



Metallic
Red



Black



Metallic
Silver



2.5x



250S	2.5x 340mm
250R	2.5x 420mm
250L	2.5x 500mm

3.0x



300S	3.0x 340mm
300R	3.0x 420mm
300L	3.0x 500mm

3.5x



350S	3.5x 340mm
350R	3.5x 420mm
350L	3.5x 500mm

LED Illumination

Seiler LED Loupe Light

The Lightest and Brightest in the Industry.

Catalog

LED Loupe Light

Description

LED Loupe Light

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

Additional features are:

- Ultra Lightweight Design.
- Constant light output as battery discharges.
- Over 10,000 LUX.
- Highest flux LED family in the world.
- Built-in battery gauge which displays the power level of the battery pack.
- 7 intensity settings with up to 15 hours of illumination at the maximum setting, 280 hours at the lowest setting.
- Supplies bright, white, shadow-free light.
- Rechargeable Battery Pack makes this a complete portable, compact unit that allows the user freedom of movement.
- Seiler's high quality LED Loupes' operating life expectancy is over 50,000 hours.
- Modular – will fit most flip-up hinge design Loupes.



We are here to serve you!

If you have any questions regarding Seiler's products or services, please feel free to contact us.

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