



SurgiMag

Innovative Ergonomic System





More Than Ergonomics **PENTAMAG**

Comfortable and Efficient Operation

Our signature ergonomic loupes improve comfort and concentration for better results and pain-free work for longer. With an average adult head weighting 4.5-5.4kg (9.9-11.9lb), tilting the head down increases the gravitational pull on the skull. Long-term forward neck posture may lead to a collection of symptoms that often manifests as neck & back pain, shoulder tension, stiffness and headaches.

PENTAMAG changes the light path downward by 45 degrees so that surgery is possible even in a neutral position. This exceptional ergonomic design reduces the strain on the cervical spine and relieves neck and back pain while alleviating eye strain.

Innovation For a Safety and Efficiency

The combination of optics and ergonomic design allows for comfortable and efficient operation.

Excellent vision and precision

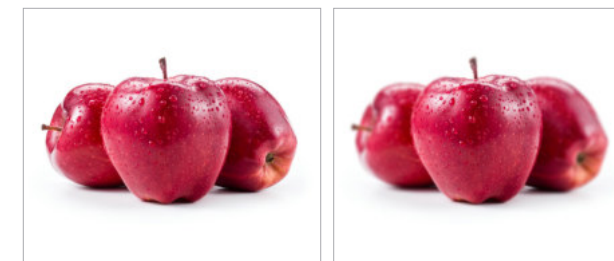
To achieve superior optical performance, the lenses are multi-coated to reduce reflections and prevent chromatic aberration.



Depth Of Focus

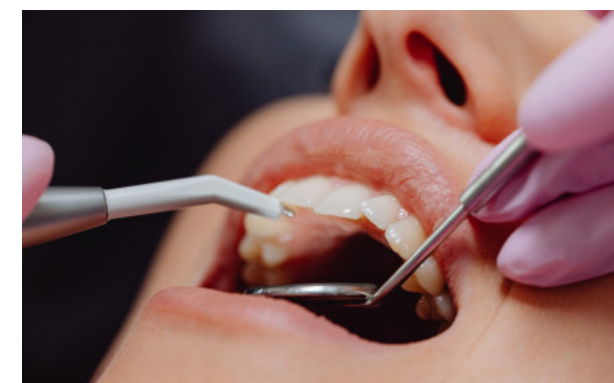
With an improved depth of focus than before, it is possible to maintain focus even when the patient moves.

When combined with Surgimag's LED Headlight, the depth of field is deep and small details can be clearly and clearly observed.



Wide Field of view

Surgimag medical loupes provide images with impressive color rendition of anatomical structures. The large field of view and striking depth of field allow easy visualization of the entire treatment area.





Meticulous consideration to complete ergonomics

High refractive index prism
Dielectric high-reflective multi-layer prism coating on prism for the brightest images

Titanium Frame
Exceptionally high strength and unbelievably light with no flexure

Prescription Support
Built into both the carrier lenses and telescopes

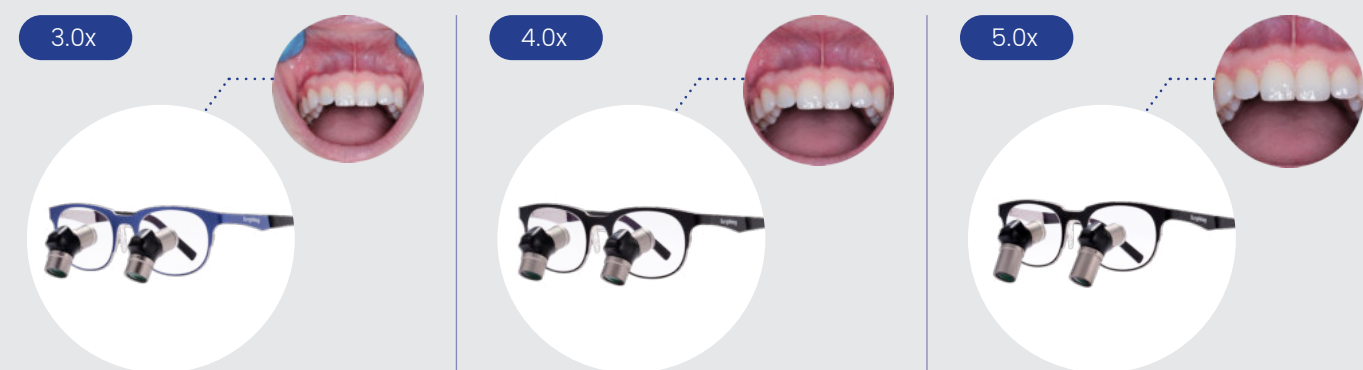
Aluminum-Magnesium alloys
Light-weight, excellent specific strength, durability

Multi-Layer Coated lens
Anti-reflection high light transmittance in a wide wavelength band from 400 nm to 1,000 nm : Bright and sharp images

Low dispersion Lens
Chromatic aberration is prevented by applying a low-dispersion lens

Custom-crafted
Working distance, Pupil distance, Deflection angle

PENTAMAG Series



Series	Magnification	Working Distance	Field Width	Field of Depth	Weight
PENTAMAG	3.0X	450mm	90mm	130mm	52g
	4.0X	450mm	78mm	90mm	52g
	5.0X	450mm	65mm	62mm	53g

Galilean loupes (2.5X 3.0X)

- Lightweight, titanium frames.
- Maximum field of depth and width.
- Built-in prevention of chromatic aberration.
- Any prescription possible.
- Anti-reflective, protective coatings.
- Loupe angle up to 30° and custom working distance up to 60 cm.



MLT-25S (2.5X)

The wide field of view and deep depth of field make this magnifying loupe comfortable for first-time loupe users and suitable for hygienists and assistants.

- High resolution
- Large field of view
- Deep depth of field for easy focusing
- Easy magnification adaptation



MLT-30S (3.0X)

A great loupe for experienced loupe users. The higher magnification is beneficial for anyone looking to add a second pair of loupes.

Series	Magnification	W.D.	F.O.V	D.O.F	Weight
Mag Loupe	2.5X	350mm	90mm	130mm	46g
	3.0X	350mm	72mm	90mm	47g

Maestro

Cordless LED Headlight



The Maestro LED Headlight maximizes user convenience through the fusion of optics and advanced control technology. LED headlight system (CRI 90+, 5700K) renders colors as close to natural light as possible, providing a higher level of color accuracy, allowing for more accurate and detailed analysis of tissue. And the uniform light distribution reveals tiny details and structures clearly and distinctly.

The lightweight (31g), compact and ergonomic design provides optimum comfort for daily use in a variety of procedures. Our custom-crafted loupes and headlights enable you to work with superior visualization to see the unseen, and practice pain-free.

True Color

The Maestro LED headlight system (CRI 90+, 5700K) renders colors as close to natural light as possible, providing a higher level of color accuracy, allowing for more accurate and detailed analysis of tissue.

CRI70



CRI80



CRI90+



Uniformity

A uniform light source increases visibility and improves the focus of the operation.



Quick Launch and Replaceable Batteries

It lights up at the same time as the battery is replaced, enabling quick and accurate response.



Efficient Battery

It can be used for up to 4 hours with one battery, and a total of three batteries are provided, so it can respond to any procedure or surgery.



Maestro

The optimal illumination for examination



FEATURES

- High CRI True Color System
- Color Temperature 5700K
- Headlight Weight 31g

Accessories included

- 3 Rechargeable Batteries
- Battery Charger
- Universal Clip
- UV Curing Filter
- Cleaning Cloth

Working Distance	Ø
350mm	82mm

	Level 1	Level 2	Level 3
Bright Intensity(lux)	5,000	10,000	15,000
Battery Life Time	4h	2h 20m	1h 20m