

TTL LOUPES  
HEADLIGHTS

# SURGE LOUP

made by Crystal Optic

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## WE MAKE JUST FOR YOU

Since 1998.

Surgical Loupes, Surgical Headlights manufacturer Crystaloptic Co., Ltd.

SURGELOUP® is “The Starter” of Surgical Loupes in Korea.

Brand SURGELOUP® elaborately produces High Quality, High Performance Customized Surgical Loupes, and Surgical Headlights to enhance the good effects of the loupes.

With lenses and techniques based on skills of an optician acquired over a long period in his own chain optical stores, combining knowledge of both optometry and surgical loupes,

SURGELOUP® professionally measures, produces and, of course, fits the loupes to your face, especially to your eyes.

SURGELOUP® provides you with enlarged vision without distortion, and optimal comfortable vision and field of view and depth of focus, and helps you reduce or prevent neck and back pain by keeping your body maintaining good posture thanks to the magnified image.

And by that, SURGELOUP® helps you improve your medical environment and patient satisfaction.

Reduce Your Eye Tiredness and Experience Good Quality Diagnosis and Surgery.

## FEEL THE DIFFERENCE

Even if the user is one,  
different surgical loupes can be made depending on  
who or which company measures.

Even one measurement error makes you can't use the surgical loupes well.  
Surgical Loupe is about comfortable vision.

You should be able to see comfortably just like your own eyes.

Leave it to the experts.

Feel the difference that professional optician makes JUST FOR YOU.

# MAGNIFICATION



## x2.5

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FOV 160@400

Weight 43g

Compatible with SL-12, SL-11, DA-N



## x3.0

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FOV 80@400

Weight 47g

Compatible with SL-12, SL-11, DA-N



## x3.3

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FOV 70@400

Weight 68g

Compatible with SL-12, SL-11

\*The weight(g) is based on the finished product.

# FRAMES



## SL - 12

Frame designed based on optometric knowledge  
The most popular frame since 2016.



## SL - 11

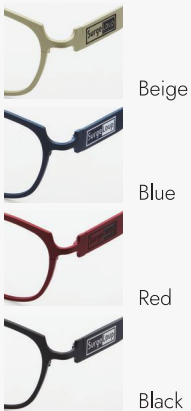
Frame designed a bit wider than SL-12. Made of titanium, light and sturdy material suitable for frame of surgical loupes.



## DA - N

Frame released considering weight of surgical loupes  
More flexible and comfortable fit.

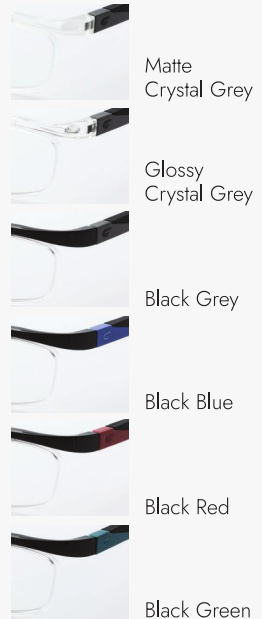
Material **Titanium**  
Weight **20g**



Material **Titanium**  
Weight **20g**



Material **Poly-Amide**  
Weight **15g**



# HEADLIGHTS

## NeckWare™ Light

The hands-free light built in NeckWare™ works with the object detection sensor.

**You don't need to touch it.**

Don't contaminate your hands during the surgery.

The built-in battery in the NeckWare™ lightens weight of surgical loupes on your nose.

Improve the quality of your surgery with bright and clear lights.

(For user's convenience, switch between 'Sensor Mode / Button Mode' in the setting.)



Light Source	High Power LED
Operating Time	about 10hrs (Maximum intensity)
Charging Time	3.5hrs
Brightness	43,000lx @WD400
Field of View	100mm @WD400
Light Module Weight	19g
Battery Pack	DC 3.6V 6800mA
Controller Weight	190g

# Q & A

**Q. Does high myopia or astigmatism cost additional fee?**

**A. SURGELOUP® do not charge additional fee** for any diopters.

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**Q. How long is the warranty period?**

**A. SURGELOUP® warrants our products against defects in materials and workmanship** when used normally in accordance with SURGELOUP's published guidelines for a period of **1 year from the date of original retail purchase by the end-user purchaser.**

However, it costs repair fee for the reasons written down below.

- Defects after warranty period is over(i.g. Broken nose arm, Broken tip)
- Damage caused by accident, abuse, misuse, fire, liquid contact, earthquake or other external cause



