

## ► Thank you for choosing **SurgiTel®**!

Your **SurgiTel®** loupes have been designed to meet the demanding needs of today's clinical professionals. Please keep in mind that you will have a hand-eye coordination adjustment period of about two weeks. Begin slowly with simple movements, working your way up to more complicated procedures. In the end, **SurgiTel®** loupes will allow you to see, work, and feel your best.

## ► GETTING STARTED

- 1 Remove protection caps.
- 2 Adjust nose pads.
- 3 Move your frame slightly away from face/eyes to minimize fogging.
- 4 Sit at your measured working distance.
- 5 Approach your magnified image slowly until you are comfortable with the depth perception change.
- 6 Secure retainer strap attached to temple arms, this will increase stability with higher magnification.



- Make sure you are wearing the frame comfortably on your nose by not positioning the frame too close to your eyes.

## Starting Magnification Tips

- A new or upgraded user to magnification will experience a normal “adjustment” period.
- This is normal as you are adjusting to using your new loupes on two levels:
  - **Hand/Eye Coordination** – getting used to working with a magnified field.
  - **Improved Posture** – getting used to sitting more upright.
- For the 1<sup>st</sup> Week:** Begin by working for 1-2 hours in the morning on simple procedures.
- For the 2<sup>nd</sup> Week:** Gradually work your way to more complex procedures, both in the morning and afternoon.
- Also, do not walk around with your loupes on. Be sure to take them off when walking around.



## ► WARRANTY

SurgiTel's mission is to provide the best products for your *Vision & Ergonomics at Work*. To support this commitment SurgiTel® warranties all of its products.

SurgiTel® strives to make the best loupes and light systems available. Please inspect and try on product immediately upon receipt. If you notice any issues, contact our customer service department at 800-959-0153.

For both warranty and out-of-warranty issues, contact SurgiTel® Customer Service regarding repairs.

Warranties vary by product. Check [www.surgitel.com/warranty](http://www.surgitel.com/warranty) for more details. Check [www.surgitel.com/help](http://www.surgitel.com/help) for up to date care information/instructions.

Please keep up to date on care information/instructions, as warranties can be affected if product is misused.

## ► PATENT

U.S. Patent Numbers: US 7,791,798; US 8,913,318; US D649,571; US 8,964,292; US 9,465,235; US D746,354; US 9,383,077; US 7,719,765; US 9,494,299; US 8,068,169; US 10,066,816 B2; US 9,383,077 B2; US 9,494,299 B2; US 11,013,573.

**SurgiTel®**

a division of General Scientific Corporation  
77 Enterprise Drive • Ann Arbor, MI 48103-9503  
E-mail [info@surgitel.com](mailto:info@surgitel.com) • [www.surgitel.com](http://www.surgitel.com)



# SurgiTel®

## USER INSTRUCTIONS

### ErgoVision® ErgoDeflection Loupes

## ▶ POSTURE & COMFORT

**SurgiTel®** magnification systems were designed to promote great body positioning. In order to maximize this effect, the user must be aware of common mistakes made while using an ErgoDeflection loupe.

1. Bending your head towards your chest to look over the oculars can create neck discomfort.
2. Wearing the frame on the tip of the nose creates a smaller field-of-view.
3. Rushing to bring instruments into the magnified field during the learning curve can create a feeling of awkwardness due to the change in your depth perception.



Remember to sit at a measured working distance and take your time getting used to your new loupes and after a short period of time your work will become naturally easier.

## ▶ CLEANING & DISINFECTION

### DO NOT USE:

**✗** Any cleaners with alcohol, ethanol, ammonia, glutaraldehydes, iodophors

### DO NOT:

**✗** Rinse under running water  
Submerge in water or any liquid  
Autoclave

### DO CLEAN:

**✓** Use eyeglass cleaners (without alcohol), hydrogen peroxide or apply mild soap and water with a soft cloth until particles are loosened. Wipe or air dry.

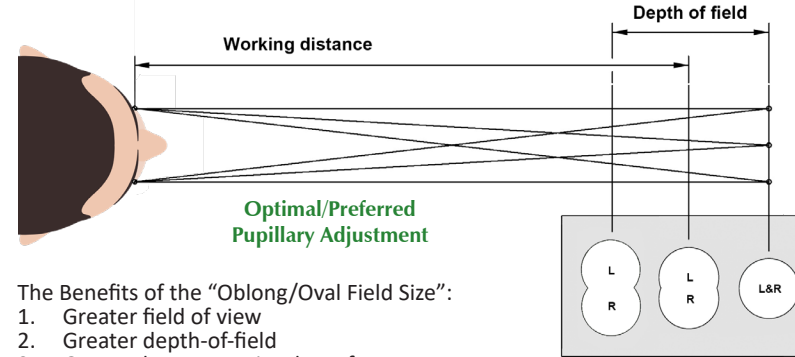
### DO DISINFECT:

**✓** Use of quaternary ammonium compounds is ok. Dry thoroughly. For full list of recommended disinfectants, visit [www.surgitel.com/help](http://www.surgitel.com/help)

**FACTORY REFURBISHMENT CLEANING:** is available if you come across a difficult cleaning situation. Call customer support for details: 800-959-0153

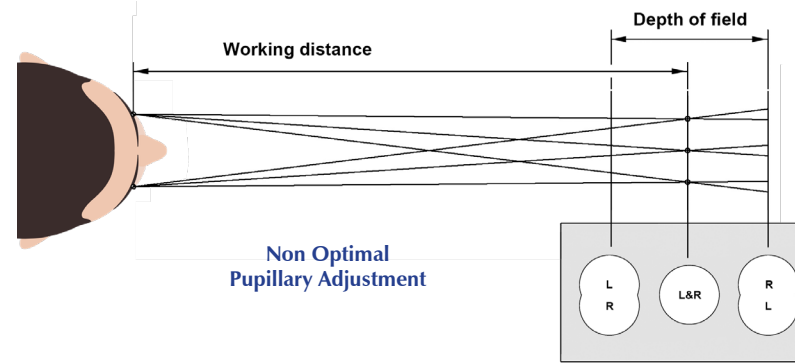
## ▶ P.D. (PUPILLARY DISTANCE)

The ideal P.D. your loupes are manufactured to is not one "circle," but rather one "oblong/oval" with one image (like a pair of binoculars).



The Benefits of the "Oblong/Oval Field Size":

1. Greater field of view
2. Greater depth-of-field
3. Greater long-term visual comfort



Our extensive loupe manufacturing experience, based on years of customer data, has taught us that setting your loupes to one "circle field" at the specific working distance runs the risk of the visual convergence crossing-over and potentially leading to eye strain.

If you prefer we can manufacture your loupes to "one circle field" - we can accommodate this, however, it is not recommended.

## ▶ SETTINGS/ADJUSTMENT

Please follow the steps below if additional frame adjustments need to be made to increase the comfort of your ErgoDeflection loupes.

### SurgiTel Aero frame

If the temple arms are too tight or too loose, you can easily adjust the width of the temple arms by evenly bending them at the ear piece of the temple arm.

## ▶ ADJUSTING NOSE PAD(S)

When the nose pads are properly adjusted to your face, they will provide excellent comfort and balance. If the nose pads do not make even contact with your nose comfortably, please follow the directions described below.

### How to adjust nose pad to fit nose

#### • Adjusting Nose Pads for Too High Oculars

Adjust the width of the nose pads by bending the nose pad wire mounts outwards (fig 7). By doing so, this will reduce the height of the frame and lower the ocular position.



fig 7

fig 7

#### • Adjusting Nose Pads for Too Low Oculars

Adjust the width of the nose pads by bending the nose pad wire mounts inwards (fig 8). By doing so, this will increase the height of the frame and raise the ocular position.



fig 8

fig 8

#### • Adjusting Nose Pads for Low Nose

If the nose pads are not evenly placed on the bridge of the nose, bend the wire mounts down and away from the frame (fig 9) and re-adjust the width of the nose pads if necessary. Note that the wire mount tilt angle depends on the bridge of the nose. The less nose bridge you have, the larger the tilt becomes to fit your nose.

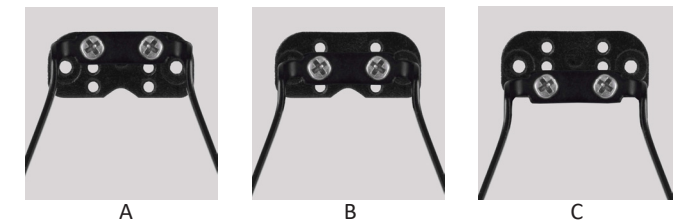


fig 9

fig 9

### Changing nose pad style, using the Ergo Fit Nose Pad mounting block

1. Before switching to a different nose pad style, it is recommended that you try the set choice from the factory. For any slight ocular misalignment or discomfort, refer to "How to adjust nose pad to fit nose" instructions above. If you decide to change to a different nose pad style, please read and follow steps below for help with vertical alignment with oculars.
2. Start by reassembling the new nose pad wire arms into the same mounting block holes, as used on the previous.
3. If you see top shadowing when looking through the oculars, mount the nose pad wire arms down (example: "A to B" or "B to C") until fixed.
4. If you see bottom shadowing when looking through the oculars, mount the nose pad wire arms up (example: "C to B" or "B to A") until fixed.



A

B

C