

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

Your **SurgiTel®** telescopes 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®** telescopes 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 Position your oculars against the frame lens to maximize field size.
- 5 Adjust your pupillary distance knob to a comfortable setting where the two images converge together. (see Adjusting P.D. (Pupillary distance) section)
- 6 Adjust the tension in the hinge to a comfortable setting. (see Adjusting Flip-up Tension section) **Make sure to add slightly more tension when using a clip-on light.**



► To achieve the optimum resolution and field size, make sure that the telescope oculars are touching the frame's lens.

► Remember that the hinge tension is adjustable by adjusting the center tension screw on the hinge.

### 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 Week: Begin by working for 1-2 hours in the morning on simple procedures.
- ❑ For the 2 Week: Gradually work your way to more complex procedures, both in the morning and afternoon.
- ❑ Also, do not walk around with your telescopes 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® warrants 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, etc.

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# SurgiTel®



### USER INSTRUCTIONS

**ErgoVision®**

Front-Lens-Mounted (FLM) Telescopes

► **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 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

► **SETTINGS/ADJUSTMENT**

All **SurgiTel®** telescopes are factory set to the users specifications. If minor adjustments are necessary for change in preference(s) follow the steps below.

1. Loosen the slide retainer screw that allows you to adjust the V.P. (vertical position). (fig 1)
2. Place the loupes at the lowest position on the frame, then slowly raise upward until you achieve a comfortable ocular height. To hold V.P., make sure the slide retainer screw is tightened. (fig 1)
3. Adjust the declination angle by moving the ocular rack until your preferred head tilt is achieved. Then adjust the ocular rack to attain your line of sight. (fig 6)
4. Tighten all hinge screws with hex key (add slight tension) once you have found your comfortable declination angle and alignment.
5. Position yourself into your working position and adjust the P.D. (pupillary distance) knob (fig 3) until you have one image in an oblong/oval shape. (fig 4)

► **ADJUSTING V.P. (VERTICAL POSITION)**

1. Loosen the slide retainer screw that allows the slide retainer to move up/down. (fig 1)
2. Position the loupes on your face/nose.
3. Adjust the oculars until oculars are aligned to the eyes.
4. If oculars are not moved enough to align, remove loupes from your face to adjust. Remove slide retainer screw and change placement. For screw placement guidance refer to fig 2.



fig 1

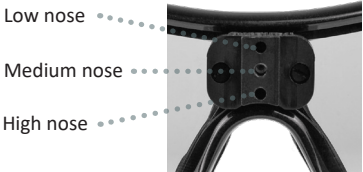


fig 2

► **ADJUSTING P.D. (PUPILLARY DISTANCE)**

1. Position the loupes on your face and nose.
2. Using the P.D. knob (fig 3), spread the oculars apart to the widest distance.
3. When looking through the oculars, focus on an object in front of you (such as your thumb). If it is not in focus, move your thumb/object towards or away from you until you see it clearly.
4. With the other hand slowly adjust the P.D. knob until you have one image in an oblong/oval shape. (fig 4)



fig 3

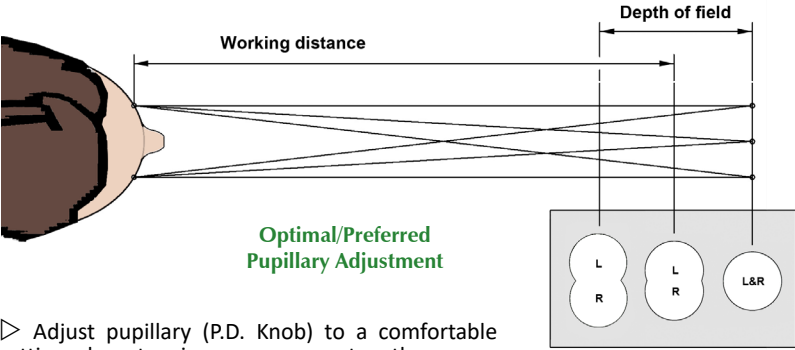


fig 4

► Adjust pupillary (P.D. Knob) to a comfortable setting where two images converge together. (fig 3,4)

► **ADJUSTING FLIP-UP TENSION**

• **Top Locking Screw**

The whole loupe system can be flipped up to open up your line of sight by simply rotating link-hinge upwards (fig 5). If you flip-up your loupes frequently, leave this screw a little loose.



fig 5

• **Bottom Locking Screw**

Allows adjustment and locking of declination angle (fig 6). Maintains angle while flipped-up or flipped-down. If you use your loupes at different working postures, you should leave this screw loose and allow the middle tension screw to hold it in place.



fig 6

• **Middle Tension Screw**

The level of flipping tension can be adjusted by tightening the middle screw. Tighten or loosen the center screw so that the flip-up tension is acceptable.

\*Note: This hinge system is designed to work with the middle tension screw. The top and bottom screws are used for locking purposes.

► **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.

**SurgiTel frames**

• **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.

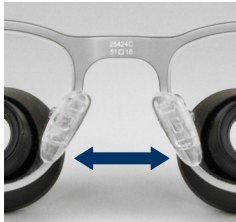


fig 7

• **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.

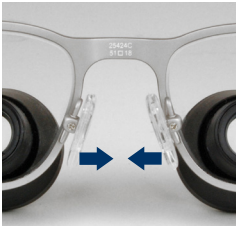


fig 8

• **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 readjust 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.

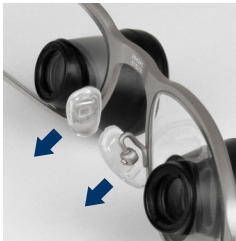


fig 9

• **Nose Pad Covers**

By attaching nose pad covers (not shown), this will help increase the height of the frame and raise the ocular position up to 2 mm (0.079 inches). Also these nose pads will improve comfort when worn.

**Oakley frames**

**Single Nose Pads**

Change orientation and/or nose pad size until you find your desired fit. (fig 10)

**Single String Nose Pad**

Alter ocular height by changing nose pad size. Only thin and thick nose pad options are available. (fig 11)

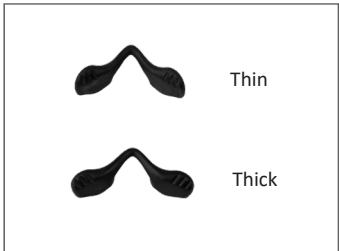
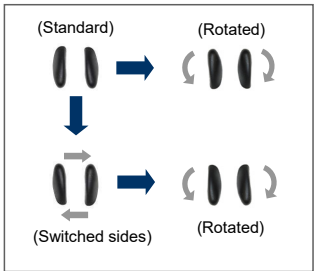
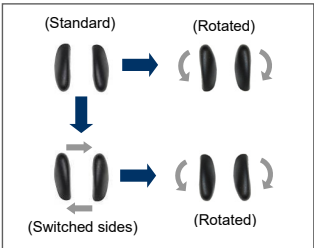


fig 11



Small (4 configurations) fig 10



Large (4 configurations) fig 10