

# **Beyond the Vision**

Loupes and Headlights



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### Through The Lens (TTL) Loupes | ITL Series

- TTL are made-to-measure specifically designed with a fixed barrel mounted into the loupe lens.
- Configuration is based on the users individual pupillary and working distance measurements.
- Ergonomic and remarkably lightweight with high resolution and various magnifications.
- Wide range of choices based on preference and convenience.
- · Perfect clarity through exclusive Illuco optical design.
- · Laser aligned optics for precise convergence angle.
- Wider field-of-view by attaching closer to eyes.



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▲ Laser aligned

#### **SPECIFICATIONS**

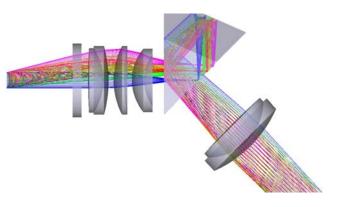
| Model/frame colour   | Туре | Magnification | Galilean (GL)<br>Prismatic (PM) | FOV (cm)<br>@45 cm | Working<br>Distance<br>(cm) | Resolution (lp/mm) | Weight (g)<br>without<br>spectacle |
|--|------|---------------|---------------------------------|--------------------|-----------------------------|--------------------|------------------------------------|
| DER-LOU-1001 (black)<br>DER-LOU-1053 (silver)<br>DER-LOU-1002 (pink) | TTL  | 2.5x          | GL                              | 15.0               | 35 - 55                     | 8                  | 15.00                              |
| DER-LOU-1003 (black)<br>DER-LOU-1054 (silver)<br>DER-LOU-1004 (pink) | TTL  | 3.0x          | GL                              | 11.0               | 35 - 55                     | 10                 | 44.00                              |
| DER-LOU-1005 (black)<br>DER-LOU-1055 (silver)<br>DER-LOU-1006 (pink) | TTL  | 3.5x wide     | GL                              | 10.5               | 35 - 55                     | 9                  | 46.00                              |
| DER-LOU-1011 (black)<br>DER-LOU-1058 (silver)<br>DER-LOU-1012 (pink) | TTL  | 3.5x          | PM                              | 9.0                | 35 - 55                     | 10                 | 46.00                              |
| DER-LOU-1007 (black)<br>DER-LOU-1056 (silver)<br>DER-LOU-1008 (pink) | TTL  | 4.5x          | PM                              | 8.0                | 35 - 55                     | 10                 | 52.00                              |
| DER-LOU-1009 (black)<br>DER-LOU-1057 (silver)<br>DER-LOU-1010 (pink) | TTL  | 5.5x          | PM                              | 7.0                | 35 - 55                     | 15                 | 52.00                              |
| DER-LOU-1047 (black)<br>DER-LOU-1059 (silver)<br>DER-LOU-1048 (pink) | TTL  | 6.5x          | PM                              | 6.5                | 35 - 55                     | 15                 | 54.00                              |

## TTL Angled Loupes | IAL Series

- Facilitates comfortable head and neck position for long durations.
- · Reduce eye fatigue as well as back and neck pain.
- Prolongs comfortable wearable time.
- Outstanding modern design with a smooth curved shape.
- · Recommend from a long-term perspective.



Prismatic loupes use a prism to manipulate object perception, meaning higher magnification is possible while keeping the loupe compact and lightweight



#### **SPECIFICATIONS**

| Model  | Туре   | Magnification | Prismatic (PM) | FOV (cm)<br>@45 cm | Working<br>Distance<br>(cm) | Resolution (lp/mm) | Weight (g)<br>without<br>spectacle |
|--|--------|---------------|----------------|--------------------|-----------------------------|--------------------|------------------------------------|
| DER-LOU-1063 (black)<br>DER-LOU-1065 (silver)<br>DER-LOU-1064 (pink) | Angled | 3.5x          | PM             | 10.5               | 30~75                       | 13                 | 44.00                              |
| DER-LOU-1066 (black)<br>DER-LOU-1068 (silver)<br>DER-LOU-1067 (pink) | Angled | 4.5x          | PM             | 8.0                | 30~75                       | 13                 | 48.00                              |

# Flip-up Loupes | IFL Series

- Easily adjustable pupil distance to your preference.
- Individual adjustment the left and right pupil distance.
- Removable prescription lens.
- Mount directly on your own frame.

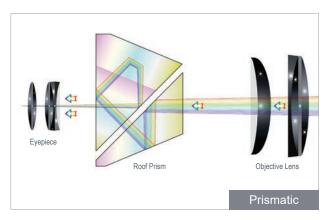


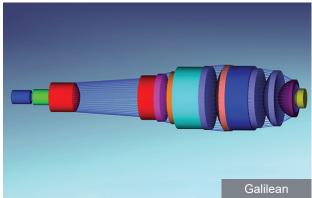
3.5x Pink frame/White loupe



3.5x Black frame/Back loupe

Illuco specialises in optical engineering to produce the highest quality lenses





#### **SPECIFICATIONS**

| Model<br>Frame and Loupe colour  | Туре    | Magnification | Galilean (GL) | FOV (cm)<br>@45 cm | Working Distance (WD) (cm) | Resolution (lp/mm) | Weight (g)<br>without<br>spectacle |
|--|---------|---------------|---------------|--------------------|----------------------------|--------------------|------------------------------------|
| DER-LOU-1039 (black/black)<br>DER-LOU-1061 (silver/black)<br>DER-LOU-1042 (pink/white) | Flip-up | 3.5x          | GL            | 10.5               | 35cm                       | 9                  | 49.00                              |
| DER-LOU-1038 (black/black)<br>DER-LOU-1060 (silver/black)<br>DER-LOU-1041 (pink/white) | Flip-up | 3.5x          | GL            | 10.5               | 45cm                       | 9                  | 49.00                              |
| DER-LOU-1040 (black/black) DER-LOU-1062 (silver/black) DER-LOU-1043 (pink/white)       | Flip-up | 3.5x          | GL            | 10.5               | 55cm                       | 9                  | 49.00                              |

# Wired Headlight

### IHL-1000 DER-LOU-1016



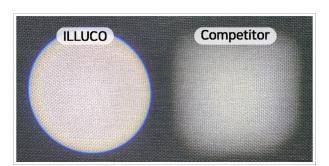


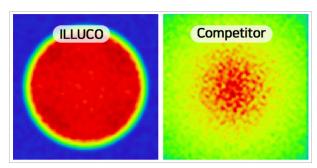
Head band suitable for wired or wireless headlight DER-LOU-1022

| SPECIFICATIONS                               |                     |
|--|---------------------|
| Weight                                       | 214g                |
| Light intensity                              | 45000 lux           |
| Color temperature                            | 6000K               |
| Focus beam size (@ 400mm)                    | 105mm               |
| LED life                                     | 50,000 hr           |
| Battery Type                                 | 3.7V, 4800mAh       |
| Battery Life                                 | 6 ~ 8 hr            |
| Charging time                                | 3.5 hr              |
| Battery life time                            | 500 Recharge cycles |
| UV filter                                    | included            |
| LOW BATT indicator                           | LED                 |
| Indication of the battery recharge condition | 6 levels            |

# Wireless headlight











Gold wireless battery DER-LOU-1026

- Cable-free
- · Quick battery change
- Uniform, vivid round spot over run time
- Max 35,000 lux
- 4+ Hours run-time (2+ hrs per battery)
- Continuous run-time can be achieved with two batteries
- 37g lightweight with battery
- Touch sensor on/off, 3 step bright control
- Fast USB C charging
- Compatible adapters to fit most manufactures' loupes

| SPECIFICATIONS                               |                     |
|--|---------------------|
| Weight                                       | 37g                 |
| Light intensity                              | 35,000 lux          |
| Color temperature                            | 6000K               |
| Focus beam size (@ 400mm)                    | 105mm               |
| LED life                                     | 50,000 hr           |
| Battery Life                                 | 120 min             |
| Charging time                                | 120 min             |
| Battery life time                            | 500 Recharge cycles |
| Curing filter                                | included            |
| LOW BATT indicator                           | LED / alert         |
| How to attach to battery                     | magnet              |
| touch sensor                                 | included            |
| Indication of the battery recharge condition | included            |
| Charging pad                                 | included            |
| Maximum heat-generating temperature          | 35 degree           |

### **Accessories**

| Image         | Item   | Code         | Compatibility with other company products | TTL | Flip-up | Wired | Wireless |
|---------------|--|--------------|---|-----|---------|-------|----------|
|               | IHL-1000<br>Additional Battery               | DER-LOU-1018 |   |     |         | •     |          |
| Total Control | IHL-2000<br>Additional Battery<br>(1 piece)  | DER-LOU-1019 |   |     |         |       | •        |
|               | Prescription lens<br>for Loupes<br>(1 piece) | DER-LOU-1020 |   | •   | •       |       |          |
| 3             | Headband<br>for Headlight                    | DER-LOU-1022 |   |     |         | •     | •        |
| *             | Universal Adapter for Headlight              | DER-LOU-1025 | •   |     |         | •     | •        |
|               | Clamp Type Adapter for Headlight             | DER-LOU-1027 | •   |     |         | •     | •        |
|               | Belt Clip for Wired<br>Headlight             | DER-LOU-1029 |   |     |         | •     |          |
|               | UV Filter                                    | DER-LOU-1030 |   |     |         | •     | •        |
| B             | Head strap                                   | DER-LOU-1031 | •   | •   | •       | •     | •        |

### WORKING DISTANCE FOR FLIP-UP LOUPES

Your ideal working distance will be determined by your height and your operational position.

| Your Height | Seated position | Standing position |
|-------------|-----------------|-------------------|
| 150 - 170cm | 30cm            | 35cm              |
| 171 - 178cm | 35cm            | 45cm              |
| 179 - 183cm | 40cm            | 50cm              |
| 184cm +     | 45cm            | 55cm              |

### How to Choose the Right Loupes for You

MAGNIFICATION, WORKING DISTANCE AND PRESCRIPTION

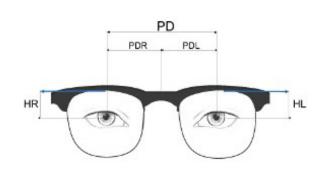
Are you new to Loupes?

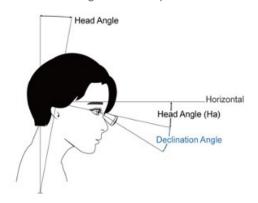
- Is your intended use for long or short surgeries? This will determine the best configuration for you. Consider if you prefer a Flip-up loupe, which can be adjusted for multiple



SHARE THE LINK WITH YOUR OPTOMETRIST

- users for any situation, whereas TTL loupes are made-to-measure for one person in one posture standing or seated.
- New users should choose a low magnification, this means minimal adjustment for best hand-eye coordination and a greater field of view. The most common magnification for a new user is 2.5x.
- The standard working distance is 45cm, however 35cm and 55cm are also available, which is determined by your height, and whether you operate from a standing or seated position.





- Pupillary distance mesurements are important for both TTL and Flip-up loupes. Flip-ups are easily adjustable, whereas TTL loupes need to be measured more precisely for the perfect fit.
- · The two types of loupes are:

**Galilean**, offers lower magnification, and as magnification increases, field-of-vision decreases. They are ideal for first time users.

**Prismatic**, have a higher magnification and a wider field-of-vision. Your exact prescription will best be determined by your optometrist/ophthalmologist.

#### **APPLICATIONS**

| Speciality Type   | Magnification                    | Recommended Loupe<br>Type |
|---|----------------------------------|---------------------------|
| Dermatology/Plastic Surgery/GP Skin<br>Cancer/General Surgery | 2.5x / 3.5x / 4.5x / 5.5x / 6.5x | TTL / Flip-up / Angled    |
| Dental General  | 2.5x / 3.5x                      | TTL / Flip-up             |
| Dental Endodontics and Periodontology<br>Surgical Procedures  | 2.5x / 3.5x / 4.5x / 5.5x        | TTL / Flip-up / Angled    |
| ENT/Opthalmology/Veterinary                                   | 2.5x / 3.5x                      | TTL / Flip-up             |



