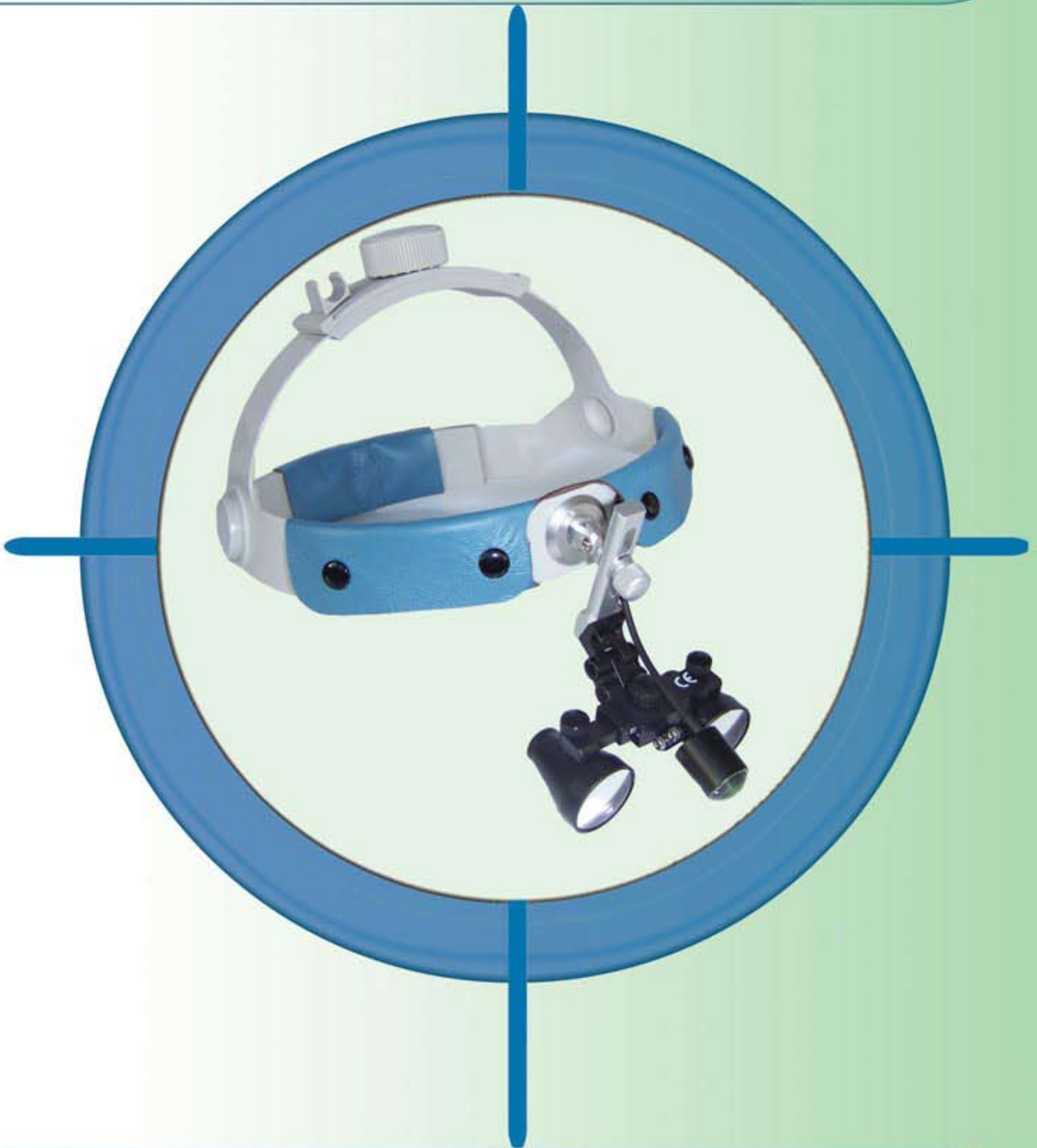


# ErgonoptiX



## Surgical Loupes & Headlights

[WWW.ERGONOPTIX.COM](http://WWW.ERGONOPTIX.COM)



# ErgonoptiX Comfort

## New Optics Technology

**The new developments** in optics technology and lightweight composite materials (metal, glass and plastics) utilized in ErgonoptiX Loupes deliver superior image quality in comparison to conventional optics.

**The new micro Galilean Loupes** produce an all-round crisp image, with a wide field of vision and an unparalleled deep focus range (up to 200mm).

**Using the latest optics technology**, in combination with these new lightweight materials, ErgonoptiX produces highly optimized surgical loupe systems, suitable for the most demanding professional applications.



## Precision

Lightweight

Improved  
Ergonomics

Viewing Angle

Interpupillary  
Adjustment

Flip-Up Loupes

TTL Loupes

Frames

Prescription

**Multi-coated optics** reduce reflection, provide a superior image and outstanding rendition.

**Engineered using a lightweight metal alloy**, providing increased stability and higher quality than is possible with conventional metal or plastics.

**Over 80% of dentists & surgeons suffer from back and neck pain**  
Using ErgonoptiX Comfort Loupes, a better working posture is automatically achieved.

**Fully adjustable viewing angle** (declination angle) reduces neck pain and improves posture. Your long term health is important. Working at the correct posture will help reduce complaints.

**One Step Easy Grip Knob** ensures the loupes are optimally fitted to each individual.  
**Multi user friendly:** Easily share a pair of loupes with your colleagues.

**Flip up type loupes** means the magnification system can easily be flipped from your line of sight with one easy move. Simply flip down again when required.

**TTL (Through the lens) type loupes** Offer personalized individual fitting

**Lightweight**, comfortable frames designed for ultimate function and versatility. Side shields and silicone nose pads provide full protection and optimal comfort.

**Prescription lenses** with your personal prescription can easily be added.



# Surgical Loupes & Lights

## Comfort Galilean: 2.5x, 3.0x and 3.5x

Lightweight Galilean Binocular Loupes  
Flip-Up type

## micro Galilean: 2.5x and 3.0x

mini Galilean Binocular Loupes  
Flip-Up type (30% smaller and lighter)

## TTL Galilean: 2.5x, 3.0x and 3.5x

Ultra Lightweight Galilean Binocular Loupes  
Through the lens type.

2.5x



3.0x



3.5x



Galilean

P-4



micro Galilean

P-6



TTL Galilean

P-8



## Comfort micro Prism: 4.0x

Lightweight, small Prismatic Binocular Loupes, Flip-Up type

## Comfort Prismatic: 5.0x and 6.0x

High Power Prismatic (Keplerian) Binocular Loupes, Flip-Up type

4.0x



5.0x



6.0x



Slim Prism

P-10



Prismatic

P-10



**D-Light:** High power, small size, portable LED surgical headlight

**D-Light Duo:** Next generation Shadowless Dual LED headlight

On Loupes



Lamp-Only



Duo



D-Light

P-14



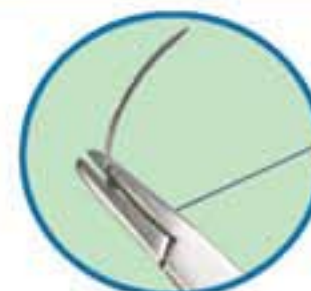


# ErgonoptiX Comfort

Grey



Black



2.5x

| ECG       | Power | Working Distance | Field of View  | Depth of Field | Black - Grey |
|-----------|-------|------------------|----------------|----------------|--------------|
| 2.5X - S  | 2.5x  | 340mm / 13,4 in  | 90mm / 3,5 in  | 80mm / 3,1 in  | 42gr - 48gr  |
| 2.5X - R  | 2.5x  | 420mm / 16,5 in  | 100mm / 3,9 in | 90mm / 3,5 in  | 42gr - 48gr  |
| 2.5X - L  | 2.5x  | 500mm / 19,7 in  | 110mm / 4,3 in | 110mm / 4,3 in | 42gr - 48gr  |
| 2.5X - XL | 2.5x  | 550mm / 21,7 in  | 125mm / 4,9 in | 120mm / 4,7 in | 42gr - 48gr  |

3.0x

| ECG       | Power | Working Distance | Field of View | Depth of Field | Black - Grey |
|-----------|-------|------------------|---------------|----------------|--------------|
| 3.0X - S  | 3.0x  | 340mm / 13,4 in  | 60mm / 2,4 in | 60mm / 2,4 in  | 48gr - 52gr  |
| 3.0X - R  | 3.0x  | 420mm / 16,5 in  | 65mm / 2,6 in | 80mm / 3,1 in  | 48gr - 52gr  |
| 3.0X - L  | 3.0x  | 500mm / 19,7 in  | 70mm / 2,8 in | 90mm / 3,5 in  | 48gr - 52gr  |
| 3.0X - XL | 3.0x  | 550mm / 21,7 in  | 75mm / 3 in   | 100mm / 3,9 in | 48gr - 52gr  |

3.5x

| ECG       | Power | Working Distance | Field of View | Depth of Field | Black - Grey |
|-----------|-------|------------------|---------------|----------------|--------------|
| 3.5X - S  | 3.5x  | 340mm / 13,4 in  | 55mm / 2,2 in | 50mm / 2 in    | 52gr - 55gr  |
| 3.5X - R  | 3.5x  | 420mm / 16,5 in  | 60mm / 2,4 in | 55mm / 2,2 in  | 52gr - 55gr  |
| 3.5X - L  | 3.5x  | 500mm / 19,7 in  | 65mm / 2,6 in | 60mm / 2,4 in  | 52gr - 55gr  |
| 3.5X - XL | 3.5x  | 550mm / 21,7 in  | 70mm / 2,8 in | 65mm / 2,6 in  | 52gr - 55gr  |

ECG

|            |                                    |
|------------|------------------------------------|
| All Models | Adjustable viewing angle: 0 - 45°  |
| All Models | Adjustable pupil distance          |
| All Models | Available in: Black or Grey/Silver |



# Galilean Loupes

## ErgonoptiX Comfort Galilean range of Dental & Surgical Loupes

**Designed for your optimal ergonomic comfort, and provide a wide field of view, combined with a deep focus range.**

Multi-coated precision lenses for superb clarity and reduced reflection.  
Ultra lightweight body and frame for maximum comfort.  
Fully adjustable viewing angle, pupil distance and flip-up function.

ErgonoptiX Comfort Loupes provide ultimate flexibility as a multi functional surgical loupe.

Integrated new technology offers a wider and deeper field of vision, maximum ease of use & multi-functional capabilities.

Utilizing high performance lens systems that provide dental & surgical loupes with an extra wide field of view (up to 125mm), and a deep focus field (up to 120mm), while maintaining minimal weight (as little as 42 grams).

- \* **Lightweight**, Galilean type binocular loupes.
- \* **Maximum ease of use** combined with multi-functional capabilities.
- \* **Multi-coated precision lenses** for superb clarity and reduced reflection.
- \* **Ultra lightweight** body and frame for maximum comfort.
- \* **Fully adjustable** viewing angle, pupil distance and flip-up function.

**Personal  
Comfort**

- Carrying Case
- Removable Lens Covers
- Flip-Up Handle
- Side Shields (metal frames)
- Screwdriver
- Head Strap
- User Guide
- Micro-Fiber Cloth
- Calibration Target



**Included in  
Basic Set**



**Metal Frame**



**Safety Frames**

**Choice of  
Frame**



**Head-Band**



**Clip-On**

**Other Options**

For more frame options & colors, Head-bands,  
prescription lens inserts, and other accessories,  
see accessories pages P12 - P13



# ErgonoptiX Comfort

**Lighter**  
weight reduction  
**35-40%**

**Smaller**  
size reduction  
**30-40%**

**Better**  
large focus field  
**200%**



**2.5x**

| ECMG      | Power | Working Distance     | Field of View | Depth of Field | Black - Grey      |
|-----------|-------|----------------------|---------------|----------------|-------------------|
| 2.5X - RD | 2.5x  | 30-50cm / 11.7-19.5" | 100mm / 3,9"  | 200mm / 7.8"   | 30gr - 0.96 ounce |
| 2.5X - LD | 2.5x  | 40-60cm / 15.6-23.5" | 100mm / 3,9"  | 200mm / 7.8"   | 30gr - 0.96 ounce |



**3.0x**

| ECMG       | Power | Working Distance     | Field of View | Depth of Field | Black - Grey      |
|------------|-------|----------------------|---------------|----------------|-------------------|
| 3.0X - SD  | 3.0x  | 24-44cm / 9.4-17.2"  | 125mm / 4.9"  | 200mm / 7.8"   | 33gr - 10.6 ounce |
| 3.0X - RD  | 3.0x  | 30-50cm / 11.7-19.5" | 125mm / 4.9"  | 200mm / 7.8"   | 33gr - 10.6 ounce |
| 3.0X - LD  | 3.0x  | 40-60cm / 15.6-23.5" | 125mm / 4.9"  | 200mm / 7.8"   | 33gr - 10.6 ounce |
| 3.0X - XLD | 3.0x  | 50-70cm / 19.5-27.3" | 125mm / 4.9"  | 200mm / 7.8"   | 33gr - 10.6 ounce |



**ECMG**

|                   |                                   |
|-------------------|-----------------------------------|
| <b>All Models</b> | Adjustable viewing angle: 0 - 45° |
| <b>All Models</b> | Adjustable pupil distance         |
| <b>All Models</b> | Available in: Black or Grey       |



# micro Galilean Loupes

High resolution range of mini Galilean Dental & Surgical Loupes

**ErgonoptiX micro Galilean loupes**

**Smaller & Lighter, yet Better then ever !**

ErgonoptiX introduces the micro Galilean loupes, utilizing new high performance lens systems. While the micro loupes are significantly smaller, ErgonoptiX have managed to create an optical system which provide a crystal clear high resolution image with an enhanced field of vision, a wider and deeper focus field, and finally, a sharper image then older generation loupes.

**Feather-light loupes, for longer working hours and reduced fatigue.**

The extreme low weight of the micro loupes system is conducive to easier working days, with less complaints of tired eyes, reduced neck and shoulder strain, and nose bridge irritation.

- \* **30-40% reduced weight:** as little as 30 grams
- \* **30-40% reduction in size:** smallest loupes with a wide view
- \* **Wide field of vision:** up to 125mm
- \* **Extra deep focused field of view:** up to 200mm
- \* **Maximum ease of use:** combined with multi-functional capabilities.
- \* **Multi-coated precision lenses:** for superb clarity and reduced reflection.
- \* **Fully adjustable:** viewing angle, pupil distance and flip-up function.

mini Loupes

- Carrying Case
- Removable Lens Covers
- Flip-Up Handle
- Side Shields (metal frames)
- Screwdriver
- Head Strap
- User Guide
- Micro-Fiber Cloth
- Calibration Target



Included Accessories



Metal Frame



Safety Frame

Choice of Frame



Head-Band



Clip-On

Other Frames & options

For more frame options & colors, Head-bands, prescription lens inserts, and other accessories, see the accessories pages P12 - P13



# ErgonoptiX micro TTL -

**Light**  
only 30 grams  
incl frame !

**Small**  
no need for  
extra parts

**Easy**  
Just put them on  
and you are ready



**2.5x**

| ETG       | Power | Working Distance     | Field of View | Depth of Field | Weight            |
|-----------|-------|----------------------|---------------|----------------|-------------------|
| 2.5X - RD | 2.5x  | 30-50cm / 11.7-19.5" | 100mm / 3,9"  | 200mm / 7.8"   | 30gr - 0.96 ounce |
| 2.5X - LD | 2.5x  | 40-60cm / 15.6-23.5" | 100mm / 3,9"  | 200mm / 7.8"   | 30gr - 0.96 ounce |



**3.0x**

| ETG        | Power | Working Distance     | Field of View | Depth of Field | Weight            |
|------------|-------|----------------------|---------------|----------------|-------------------|
| 3.0X - SD  | 3.0x  | 24-44cm / 9.4-17.2"  | 125mm / 4.9"  | 200mm / 7.8"   | 33gr - 10.6 ounce |
| 3.0X - RD  | 3.0x  | 30-50cm / 11.7-19.5" | 125mm / 4.9"  | 200mm / 7.8"   | 33gr - 10.6 ounce |
| 3.0X - LD  | 3.0x  | 40-60cm / 15.6-23.5" | 125mm / 4.9"  | 200mm / 7.8"   | 33gr - 10.6 ounce |
| 3.0X - XLD | 3.0x  | 50-70cm / 19.5-27.3" | 125mm / 4.9"  | 200mm / 7.8"   | 33gr - 10.6 ounce |



**ETG**

|                   |   |
|-------------------|---|
| <b>All Models</b> | Fixed viewing angle : 45°   |
| <b>All Models</b> | Fixed Pupil distance - personalized   |
| <b>All Models</b> | Available with IPD (pupil distance): 52 - 54 - 56 - 58 - 60 - 62 - 64 - 66 mm |



# Through The Lens Loupes

## ErgonoptiX micro TTL (Through The Lens) Surgical Loupes, Designed for personal ergonomic comfort

An easy to use surgical loupe, just put it on and start working.  
No adjustments (\* personal IPD measurements needed during ordering)

### Smaller & lighter than flip-up loupes

By removing the Flip-Up mechanism, and placing the loupes optics directly into the frames, ErgonoptiX micro TTL loupes achieve the lightest possible weight (30 grams for the entire set).

### Providing a better view!

Positioning the loupes optics as close as possible to your eyes, ErgonoptiX micro TTL loupes provide an easier view, with a wider vision field and a crisp high definition image

Placing the optics exactly at your personal IPD (pupil distance), the micro TTL loupes are personally fitted to your needs and specifications so that they feel natural to use.

- \* **Lightweight:** micro TTL Galilean type loupes. weigh as little as 30 grams (incl. frame)
- \* **Maximum ease of use:** Simply put them (no adjustments needed)
- \* **High resolution precision lenses:** for superb clarity and reduced reflection
- \* **Deep focus field:** up to 200mm focus depth
- \* **Personal:** Measured to fit you personally

Personal  
fit

## How to order personalized micro TTL loupes?

Ask your local optician to measure your IPD values (instructions for exact details can be provided)  
Provide your IPD details when placing your order  
Choose your frame color  
You are done!

IPD  
Measurement

- micro TTL Loupes & choice of frame
- Black Canvas Carrying Case
- Removable Lens Covers
- Head Strap
- User Guide
- Micro-Fiber Cloth
- Calibration Target



Grey



Red



Black



Included in  
Basic Set

Choice of  
Frame color

Prescription lens inserts available  
Easy to insert with your personal prescription lens

Prescription  
insert



# ErgonoptiX Comfort

Silver



Black



4.0x

| ECMP      | Power | Working Distance | Field of View | Depth of Field | Weight           |
|-----------|-------|------------------|---------------|----------------|------------------|
| 4.0X - S  | 4x    | 340mm / 13,4 in  | 60mm / 2.4 in | 40mm / 1.6 in  | 65gr / 2.3 ounce |
| 4.0X - R  | 4x    | 420mm / 16.5 in  | 60mm / 2.4 in | 40mm / 1.6 in  | 65gr / 2.3 ounce |
| 4.0X - L  | 4x    | 500mm / 19,7 in  | 65mm / 2.6 in | 40mm / 1.6 in  | 65gr / 2.3 ounce |
| 4.0X - XL | 4x    | 550mm / 21,7 in  | 70mm / 2.8 in | 40mm / 1.6 in  | 65gr / 2.3 ounce |

5.0x

| ECP       | Power | Working Distance | Field of View | Depth of Field | Weight           |
|-----------|-------|------------------|---------------|----------------|------------------|
| 5.0X - S  | 5x    | 340mm / 13,4 in  | 40mm / 1.6 in | 35mm / 1.4 in  | 84gr / 2.7 ounce |
| 5.0X - R  | 5x    | 420mm / 16.5 in  | 45mm / 1.8 in | 35mm / 1.4 in  | 84gr / 2.7 ounce |
| 5.0X - L  | 5x    | 500mm / 19,7 in  | 50mm / 2 in   | 35mm / 1.4 in  | 84gr / 2.7 ounce |
| 5.0X - XL | 5x    | 550mm / 21,7 in  | 60mm / 2.4 in | 35mm / 1.4 in  | 84gr / 2.7 ounce |

6.0x

| ECP       | Power | Working Distance | Field of View | Depth of Field | Weight             |
|-----------|-------|------------------|---------------|----------------|--------------------|
| 5.0X - S  | 6x    | 340mm / 13,4 in  | 40mm / 1.6 in | 25mm / 1 in    | 84.5gr / 2.7 ounce |
| 5.0X - R  | 6x    | 420mm / 16.5 in  | 45mm / 1.8 in | 25mm / 1 in    | 84.5gr / 2.7 ounce |
| 5.0X - L  | 6x    | 500mm / 19,7 in  | 50mm / 2 in   | 25mm / 1 in    | 84.5gr / 2.7 ounce |
| 5.0X - XL | 6x    | 550mm / 21,7 in  | 55mm / 2.2 in | 25mm / 1 in    | 84.5gr / 2.7 ounce |

ECP & ECMP

|            |                                   |
|------------|-----------------------------------|
| All Models | Adjustable viewing angle: 0 - 45° |
| All Models | Adjustable pupil distance         |
| All Models | Available in: Black or Silver     |

Tel: +31 (0)36 5363663

info@ergonoptix.com



# Prismatic Loupes

## High Power Prismatic Loupes

ErgonoptiX Comfort Prismatic Loupes offer high power magnification **5.0x & 6.0x**

For the specialist who needs high accuracy and clear vision.

## micro Prism 4.0x Loupes

**Same 4.0x magnification as conventional 4.0x prismatic loupes** but now significantly reduced in size & weight, and with all the advantages of lightweight Galilean loupes

**25% Smaller** ( 47mm compared to 60mm )

**25% Lighter** ( 65gr compared to 80.5gr )

High Power

micro Prism

- Carrying Case
- Removable Lens Covers
- Side Shields (metal frames)
- Screwdriver
- Head Strap
- User Guide
- Micro-Fiber Cloth
- Calibration Target



Included in Basic Set



Metal Frame



Safety Frame

Choice of Frame



Head-Band



Clip-On

Other Options

For more frame options & colors, Head-bands, prescription lens inserts, and other accessories, see the accessories pages P12 - P13



# Frames & Options For

## Special Frames

**4A-coating**  
 - Anti Scratch  
 - Anti Fog  
 - Anti UV  
 - Anti Static

**RX**  
 Prescription  
 lens insert

**RX-X**  
 for Flex Frames  
**RX-S**  
 for Sporty Frames



**Titanium  
Silver**



**Fashion Safety Frame**  
 Black, Red



**Flex Safety Frame 4A**  
 Black, Blue, Grey, Silver



**RX-X** - Prescription  
 insert for Flex



**Active Safety Frame**  
 Black, Blue, Grey, Red



**RX-A** - Prescription  
 insert for Active

## Other Accessories



**Large case**  
 for Loupes with Light



**Large case**  
 for Headband



**Carrying case**  
 Hard Aluminium



**Carrying case**  
 Black Canvas

All parts & accessories  
 relating to ErgonoptiX loupes & headlights,  
 incl side-shields, flip-up handle, lens covers, screws, etc.  
 are also available for ordering and/or replacement.



# Flip-Up Loupes



**Metal Frame**  
Black



**Metal Frame**  
Silver



**Rim** (no lens)  
Black, Blue, Red, Grey



**Clip-On**  
Black, Silver

## Basic Frames

Basic frame is included in basic set Price



## Head-Band

### When there is no need for safety frames or prescription lenses

The new **Rim** frame has no lens !

This design offers a way for flip-up loupes to be positioned as close as possible to your eyes, achieving a position similar to TTL loupes or even closer.

**The result is an easier to see, larger image!**

## Rim Frame

# NEW





# ErgonoptiX Comfort

## *D-Light*

### High Power - mini LED - surgical HeadLight Designed for optimal ergonomic comfort

#### Cool Light:

Especially developed for the medical professional, D-Light headlamps utilize an advanced cooling system ensuring the lamp does not get too hot to touch.

High power: 85.000 LUX

Feather-weight: only 5 gram

True color: 6000 K

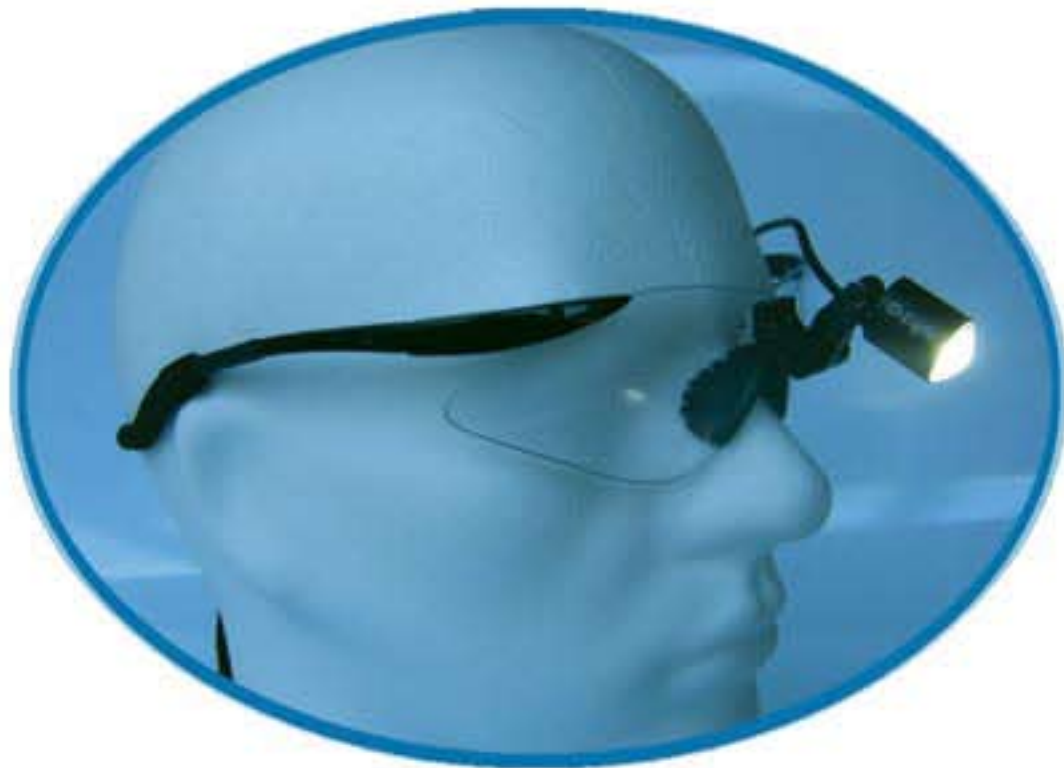
Easy Positional adjustment: Multiple hinge mount system

Fully adjustable: Light intensity knob control

Slim model: High grade aluminum rechargeable power pack

Fully adjustable power level: 4 step indication

UV filter: Included for dental use, to avoid composite hardening



## *D-Light micro*

### Ultra Bright medical LED HeadLight

High Power LED Technology:

**85.000 Lux**

Long-Life Li-polymer Power Pack:

**7-10 hours usage on one charge**



## *D-Light micro-XL*

### Ultra Bright medical LED HeadLight

High Power LED Technology:

**85.000 Lux**

Extra Long action Li-polymer Power Pack:

**10-15 hours usage on one charge**





# Surgical Head Lights

## Portable Surgical HeadLight

**D-Light** headlights can be used on surgical loupes, using an easy Clip-On / Clip-Off system

All **D-Light** models come equipped with a standard loupe mount option.

**Double-Hinged Mount:** Allows maximum control & easy positioning.



*D-Light*  
On Loupes

Galilean



Prismatic



universal



\* Other mount parts also available for most other brands loupes.

The **D-Light** HeadLight is also a stand-alone HeadLight (no loupes required)

Available on all Ergonoptix frames and mounts, for example:

Head-Band



Frames



Clip-On



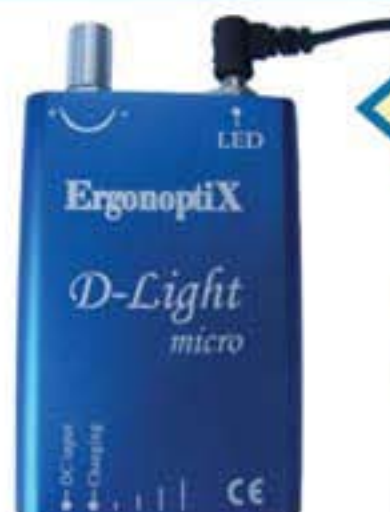
*D-Light*  
Lamp-Only

## D-Light Lamp part

- \* Ultra bright LED: 3W, 85.000 LUX
- \* Lamp Size : 21 x 16mm
- \* Weight: 5 gram
- \* Color Temperature: 6000K
- \* LED life time: 6000 hours
- \* Wire length: 40 - 90 - 130 cm

## D-Light power pack

- \* Work time: **micro** = 7-10 hours, **micro-XL** = 10-15 hours
- \* Charging time: **micro** = 4-5 hours, **micro-XL** = 5-6 hours
- \* Weight: **micro** = 107 grams, **micro-XL** = 177 gram
- \* Size: **micro** = 90x60x14mm, **micro-XL** = 93x44x21mm
- \* Power supply : 110/240V, (EU, UK, US, AU plugs available)



*Technical*  
*Specs*



# D-Light Duo Shadowless

## *Shadowless*

**The 1st & only mini Shadowless LED Surgical HeadLamp**  
**"Every surgeon should have one"**

**Revolutionary features: line-of-sight lighting & 70% shadow reduction !**

The D-Light Duo surgical headlamp was developed by ErgonoptiX especially for use during surgery, where a (True color) bright light, with minimized shadows is needed.

Where until now this could only be achieved by multiple overhead surgery lighting, for the first time, the D-Light Duo offers a comfortable, shadowless LED headlight.

Using a combination of 2 ultra-bright LED lamps on an ergonomically developed hinge system, the ErgonoptiX D-Light Duo is the Surgical Head-Light of the future.

## *D-Light Duo*



## *On Loupes*

**Easy Clip-On connection  
for surgical loupes**



*Or*

## *Lamp only*

**Stand-Alone  
lamp only version**





# Surgical Head Lights

## Utilizing a unique mount system:

### A: Adjustable declination angle

Direct the light to your working area

### A+: Flip-Up

Flip-Up the lamp out of sight if not needed

### B: Adjustable Convergence angle

For working at different distances

### C: Adjustable pupil distance

Position each individual ocular exactly above your eyes so the light is in your line-of-sight.

## Where you look is where the light goes!

**These adjustments**, uniquely developed by ErgonoptiX for the D-Light Duo LED provide a highly accurate positioning of the individual LED lamps along your direct line-of-sight. This results in the best possible lighting of your work area



*Unique  
system*



## 2 x LEDs working as one !

- Line-of-sight lighting
- 70% shadow reduction
- Ultra bright (150K lux)
- Sharp Edge lit area
- Light weight (25 gr)
- Ergonomic comfort
- Easily adjustable
- Multi-user friendly

*Dual  
LED*

## D-Light Duo Lamp part

- \* Ultra bright LED: (2 x 3 =) 6W, 150.000 LUX
- \* Lamp Size : each lamp 21 x 16mm
- \* Weight: 25 gram including mount system
- \* Color Temperature: 6000K
- \* LED life time: 6000 hours
- \* Wire length: 40 - 90 - 130 cm

## D-Light power pack

- \* Work time: 5-8 hours
- \* Charging time: 5-6 hours
- \* Weight: 177 gram
- \* Size: 93x44x21mm
- \* Power supply : 110/240V, (EU, UK, US, AU plugs available)



*Technical  
Specs*



# ErgonoptiX Comfort

## Purchasing new loupes

**When purchasing new loupes**, it is important that you choose the correct model in order to ensure you work in complete ergonomic harmony with your new loupes.

**Assuming the correct working posture** reduces eye strain, back / shoulder / neck tension, and the related stress-induced headaches.

Less known but no less important is the psychological impact:  
Good ergonomics improve information processing and decision-making.

## Which model do I need ?

**The main factors** to consider when choosing new loupe are:

- 1. Loupe Type** - Decide if you prefer Flip-Up or TTL loupes. Each type has it's advantages
- 2. Magnification** - Determine the appropriate magnification for your application
- 3. Working Distance** - Determine the best working distance for your personal needs
- 4. Mount Type** - Decide if you prefer Metal or Plastic Frames, a Head-band or a Clip-On
- 5. Frame Size** - The correct frame size will better stabilize the loupes
- 6. Field of view** (Width & Depth of field in focus) - A wider / deeper field is generally better
- 7. Weight Of The Loupes** - Lightweight loupes reduce long term strain
- 8. Prescription Lenses (Corrective Lenses)** - What if I need prescription lenses?

## Loupe Type

### 1. Loupe Type:

Which loupe type fits your needs, your personal preference, and your budget?

The different ErgonoptiX Loupes types and models all have their advantages.

**ErgonoptiX Comfort Flip-Up Loupes:** The "regular" size flip-up loupes.  
Easy to adjust and share with other users. The price is lower than the other types of loupes.

**ErgonoptiX micro Flip-Up Loupes:** micro size Flip-Up loupes.  
More advances and higher quality optics, while smaller in size  
Easy to adjust and share with other users, The price is the mid-range.

**ErgonoptiX micro TTL:** Through The Lens type micro loupes, offer a personalized fitting.  
Light weight loupes made for your specific personal attributes.  
can not be adjusted and not easy to share with other users  
The price is the highest

## Magnification

### 2. Magnification:

The level of magnification used is most often based on personal preferences. However, there are a few guidelines to help in choosing the best magnification for your specific needs.

Experience shows that the most commonly used / recommended magnification for loupes in different medical fields are as follows:

|                   |                                  |             |
|-------------------|----------------------------------|-------------|
| <b>Dentistry:</b> | General / Hygiene / Implantology | 2.5x – 3.0x |
| <b>Surgery:</b>   | Orthopedic / Cardio / Abdominal  | 2.5x – 3.5x |
| <b>Dentistry:</b> | Endo / Crown / Bridge            | 3.5x – 4.0x |
| <b>Lab Work:</b>  | Technician                       | 4.0x – 5.0x |

Our general recommendation for beginners is: start with the lowest comfortable magnification level, as this would provide the widest field of view, and is easiest to get accustomed to.  
As you get accustomed to working with loupes, you may decide to use higher magnifications.



# Loupes Guide

## 3. Working distance:

The working distance refers to the distance between your eyes, and your work area.

You can measure your personal working distance by assuming your normal working position, making sure you are comfortable, that your back is straight and that you are not leaning forward too much (as most people tend to do).

You can also use the following table for general reference (based on our experience):

| Height   | <170 cm | 170-190 cm | >190 cm |
|----------|---------|------------|---------|
| Sitting  | 340 mm  | 420 mm     | 500 mm  |
| Standing | 420 mm  | 500 mm     | 550 mm  |

## 4. Mount type:

Choose what kind of mount or frames you need or want

- Loupes on Frames: A wide variety of frames types and colors are available
- Loupes on Clip-On: Easy to use, not as stable for professional medical use.
- Loupes on a Headband: The choice of surgeons, best for long work days.

## 5. Frame Size:

The **ErgonoptiX Protective Safety Frames** are mostly "one size fits all", however, there is some size difference between the different models,

- **Fashion Safety frames:** size = Small-Medium
- **Active Safety frames & Rim Frames:** size = Medium
- **Flex Safety frames:** size = Medium - Large

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The **ErgonoptiX metal frames** are available in 3 different sizes: Small, Medium & Large.

The most important dimension for determining frame size is the temple distance. Find a pair of glasses that fit you comfortably (your own, others, sunglasses?) and measure the temple distance along the inside of the frame. (Preferably use a similar style, straight frame). Compare those measurements to the ErgonoptiX frames (see chart below) and choose the frame size that is closest to your own measurements.

| Frame sizes      | Small  | Medium | Large  |
|------------------|--------|--------|--------|
| Temple distance: | 126 mm | 131 mm | 139 mm |

## 6. Field Of View:

The the area that is in focus through the loupes. Wider and deeper is nearly always preferred.

The size of the field of view often changes with different working distance and magnification. Simply stated: Loupes with a longer working distance will have a larger field of view. Simply stated: Loupes with a lower magnification factor will have a larger field of view

With ErgonoptiX micro Galilean and micro TTL loupes this difference is minimal.

ErgonoptiX Loupes provide a large field of view (up to 125mm wide and 200mm deep).

## 7. The Weight Of The Loupes:

The weight of the loupes is an important factor, especially for a medical professional.

Lightweight loupes are more comfortable and will reduce tension and other mental and physical complications in the long term. Ultra lightweight loupes, offer maximal comfort and benefits.

ErgonoptiX Comfort Loupes utilize extremely lightweight materials. micro Galilean loupes weigh as little as 30 grams (excl. frame), ErgonoptiX micro TTL weigh only 30 grams including frame!.

## 8. Prescription Lenses:

The ErgonoptiX metal and Titanium frames or the special ErgonoptiX RX-A and RX-X inserts for safety frames can easily be fitted with normal prescription lenses by your local optician.

ErgonoptiX loupes are also available on a Clip-On or Headband, for use with your own glasses.

Working  
Distance

Mount Type

Frame Size

Field Of View

Weight

Prescription  
Lenses



# Focus On Comfort

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