



PeriOptix® lightweight frames and headlamps support better ergonomics, resulting in less strain on your neck and an overall more comfortable working experience.

PeriOptix is a leader in magnification and illumination innovations that include a unique modular frame system, the first portable LED light source, a proprietary locking mechanism expressly designed to simplify the adjustment of flip-up loupes, and now, the Firefly® Cordless Headlight System.

PeriOptix are available in through-the-lens and flip-up optics. We offer a full suite of high-quality magnification and illumination products, all at an unbeatable value.





100% of people who reviewed would recommend Firefly to a colleague!*

*According to DPS and Reality evaluators.

LED Headlights

Lightest and Brightest Headlights on the Market



Firefly Cordless Headlight System

The Cordless Headlight That Fits Any Pair of Loupes

- Unique cord-free design that eliminates the need for heavy power packs and annoying cords
- Allows you to easily upgrade your current loupes to incorporate a cordless headlight
- Easy to clean, reducing the risk of cross contamination
- Optimized spot size that eliminates the uncomfortable halo in your patients' eyes while providing uniform and natural-color output
- Available in three colors

Product	Item #
Firefly Cordless Headlight System	
Firefly Cordless Headlight System — Black	A-LED5-99
Firefly Cordless Headlight System — Red	A-LED5-99R
Firefly Cordless Headlight System — Blue	A-LED5-99B
<i>Contents: 2 rechargeable light pods, magnetic loupe mount and hardware, dual charging station for light pods, cleaning cloth, shock-resistant carrying case, instructions</i>	
MicroLine Mini LED Headlight System	
MicroLine Mini LED Headlight	A-LED4-2-INT
<i>Contents: Lamphead and cable with loupe mount, power pack and battery, battery charger and wall AC adapter</i>	
Solaris Portable LED Headlight System	
Solaris Portable LED Headlight	A-LED3-INT
<i>Contents: Lamphead and cable with loupe mount, power pack and 2 batteries, battery charger and wall AC adapter</i>	
LED Headlamp Accessories and Replacement Parts	
Firefly Barrel Charger	LED5-BC
Firefly Mount	LED5-MA1
Solaris Replacement Cable	LED3-C
MicroLine Mini Replacement Cable	LED4-2-C
Solaris Composite Filter	LED3-F2
MicroLine Mini Composite Filter	LED4-F4
Lithium Ion Battery for Mini and Solaris Headlight	LED2-B1
Power Pack Solaris Headlight	LED2-BP
Power Pack Mini Headlight	LED4-BP
Battery Charger — Mini and Solaris Headlight	LED2-BC1

MicroLine™ Mini LED Headlight

The Lightest LED Headlight

- Weighs less than nine grams
- Brightest mini LED headlight (40,000 Lux*)
- 8-hour+ rechargeable, replaceable Li-Ion battery
- 90% charge in only 90 minutes
- User-replaceable cable



MicroLine Mini on MicroLine TTL



Optional composite filter

Only PeriOptix lights have an inexpensive, replaceable cable

Solaris® Portable LED Headlight

Brightest Lightweight LED Headlight

- Brightest LED headlight (80,000 Lux*)
- 5-hour+ rechargeable, replaceable Li-Ion battery
- 90% charge in only 90 minutes
- User-replaceable cable

PeriOptix power pack features a snap-in battery



Solaris on Hogies™ System

Our LED headlights attach to all PeriOptix loupes, headbands and the majority of loupes in the market.

*Lamp Illumination 80,000 lux @ 35 cm (7,500 foot-candles @ 14"); 40,000 lux @ 35 cm (3,750 foot-candles @ 14")



PeriOptix® Loupes

See the PeriOptix difference

All PeriOptix optics are made with high-end, shatter-resistant glass to ensure optimum edge-to-edge clarity in a large viewing field. Our variety of magnification options and large selection of loupe styles ensure that most any need is met with an elegant and customizable solution.



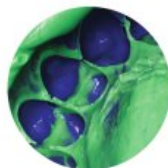
A Certified DenMat Loupe Specialist can fit you for the perfect flip-up or through-the-lens loupes. All DenMat sales representatives are trained and certified to assist you with your loupe needs.

A Reference for Magnification and Field of View

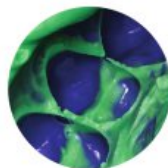
No Magnification



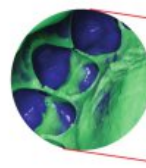
2.5x Magnification



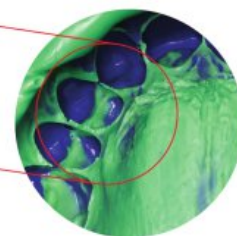
3.5x Magnification



Small Field of View



Large Field of View



As seen on a SplashMax impression

Higher magnification typically results in a smaller field of view

PeriOptix TTL Optics

Lightest-Weight Premium Through-The-Lens Loupes

Through-the-lens loupes are custom manufactured for each individual user. TTL loupes have extremely precise optical quality and a large field of view making them comfortable, easy to use, and care free. TTL loupes are also much lighter and sleeker than their flip-up counterparts.

2.3x MicroLine™ TTL Loupes

One of the lightest loupes on the market. The great field of view and depth make this loupe comfortable for first-time loupe users and is perfect for hygienists and assistants.

Weight: 35 grams **Field of View:** 8.9 cm **Depth of Field:** 11.4 cm



PeriOptix 2.3x MicroLine optics are less than 1/3 the size of conventional optics

2.7x TTL Loupes

The perfect balance between magnification and depth of field. This loupe is ideal for any general dental practitioner.

Weight: 43 grams **Field of View:** 8.9 cm **Depth of Field:** 10.2 cm



3.1x TTL Loupes

A great loupe for experienced loupe users. The higher magnification is beneficial for anyone looking to add a second pair of loupes.

Weight: 47 grams **Field of View:** 6.4 cm **Depth of Field:** 7.6 cm



4.0x TTL Prismatic Loupes

The newly reimagined prismatic 4.0x loupe is extremely lightweight compared to its counterparts on the market. This high magnification allows the user to see a large image without compromising clarity.

Weight: 61 grams **Field of View:** 6.4 cm **Depth of Field:** 6.4 cm



Frame Options: PeriVista Sport, Classic Titanium

*All measurements are taken on the PeriVista Sport Frame at a long working distance.

PeriOptix Flip-Up Optics

Precision Optics with Optilock® Technology

Flip-up style loupes allow the flexibility to flip the loupes out of the field of view and share with others in their practice. All PeriOptix Flip-Up loupes feature our patented Optilock and dual-point convergence technology that allows the loupes to be easily adjusted and removes the annoyance of the loupes becoming misaligned.

Microline™

Extremely Lightweight & Exceptional Clarity

Microline Flip-Up loupes are some of the lightest and most streamlined flip-ups on the market. These loupes offer the user a comfortable and less bulky option to traditional flip-up loupes without sacrificing image size or quality.

2.3x Microline Loupes

Weight: 47 grams **Field of View:** 7.6 cm **Depth of Field:** 10.2 cm

2.7x Microline Loupes

Weight: 54 grams **Field of View:** 6.4 cm **Depth of Field:** 7.6 cm

Frame Options: PeriVista Sport



MicroLine 2.3x
on PeriVista
Sport Frame

Panoramic™

Our Highest-Rated Flip-Ups

Panoramic Flip-Up loupes provide a wide field of view not found in most other optics. The low-profile design gives you improved over-the-lens visibility and our waterproof lenses give you worry-free cleaning and disinfecting options.

2.5x Panoramic Loupes

Weight: 61 grams **Field of View:** 8.9 cm **Depth of Field:** 10.2 cm

3.0x Panoramic Loupes

Weight: 66 grams **Field of View:** 7.6 cm **Depth of Field:** 7.6 cm

3.5x Panoramic Loupes

Weight: 64 grams **Field of View:** 6.4 cm **Depth of Field:** 6.4 cm

Frame Options: PeriVista Sport, Hogies



Panoramic 2.5x
on PeriVista
Sport Frame

Legacy™

Greatest Value Flip-Up On The Market

PeriOptix Legacy loupes are inexpensive, reliable, and robust, making them a great choice for first-time loupe users.

2.5x Legacy Loupes

Weight: 68 grams **Field of View:** 8.9 cm **Depth of Field:** 10.2 cm

3.0x Legacy Loupes

Weight: 73 grams **Field of View:** 7.6 cm **Depth of Field:** 8.9 cm

3.5x Legacy Loupes

Weight: 71 grams **Field of View:** 6.4 cm **Depth of Field:** 7.6 cm

Frame Options: Rimz, Mirage, Hogies



Legacy 2.5x
on Mirage™
Sport Frame

PeriOptix® Frames

Feel the PeriOptix difference

No feature is more important for comfort than the frame. PeriOptix frames have a wide variety of styles and adjustments, providing overall comfort and customizability for our wearers. PeriOptix provides advanced, high-quality frames to meet your practice needs, while suiting your preference in style.

PeriVista™ Sport Frame by Adidas®

Stylishly Customizable

The PeriVista sport frame is custom-manufactured by Adidas for use with PeriOptix loupes. This is our most popular frame option because it provides wrap-around protection in a stylish design. This frame also allows the user to make adjustments to improve the fit on their face.

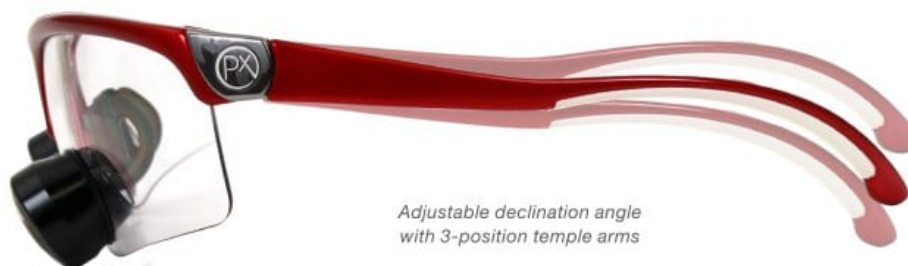
- 2-position adjustable nose piece
- Adjustable declination angle with 3-position temple arms
- Prescription lenses available
- Available in 2 sizes, standard and large*

Loupe Options: Through-the-Lens, Panoramic and Microline Flip-Up

*Large size only available in Matte Black and White.



Unique Frame Features



Laser loupe clip-on inserts
now available!
(OD >10 at 808 nm)



Classic Titanium

Timeless Classic Appeal

The classic titanium frame by PeriOptix offers a timeless look with a modern twist. This frame is sturdy, lightweight, and sits well on the face because of its adjustable nosepiece. This frame is also equipped with the patented TurboFlex technology allowing the temple arms to rotate easily, which avoids breakage.

- Adjustable saddle nose bridge
- Prescription lenses available
- Sturdy and fully rimmed, titanium design

Loupe Options: Through-the-Lens



Titanium



Brown



Patented TurboFlex technology



Hogies™

Versatile Magnetic Frame System

PeriOptix offers the authentic Hogies brand, the most advanced magnification loupe frame system available on the market today. Hogies use a patented magnetic mounting system for quick and simple attachment of loupes, safety shield, prescription lenses and nose pad.

- Easily replaceable shields and nose pads
- Can be worn over glasses
- Prescription lenses available

Loupe Options: Panoramic Flip-Up, Legacy Flip-Up



Red



Smoke Grey



Metallic Blue



Black



Mirage & Rimz

Greatest Values on the Market

The Mirage and Rimz frames are comfortable and inexpensive sports frames that are ideal for first time loupe users. The clear wrap-around polycarbonate shields give excellent protection with an unrestricted peripheral view.

- Large one-piece safety shield
- Shatter-proof polycarbonate lens
- Prescription lenses available (Mirage only)

Loupe Options: Legacy Flip-Up

Rimz



Red



Black



Pink



Blue



White



Silver

Mirage



Red



Black

