



 PeriOptix®

Product  
Catalog

  
DenMat®



PeriOptix, owned and operated by DenMat since 2013, has been one of the top global manufacturers of loupes and high-end headlight systems for more than 15 years.

#### **Why PeriOptix?**

- Quality and cutting-edge products, like the Firefly,<sup>™</sup> that offer users a variety of features to fit their needs
- Extremely lightweight headlamps that are top rated by independent organizations
- Premium brand name frame options like Adidas<sup>®</sup>, Greg Norman and Hogies<sup>®</sup>
- Made in the U.S.A. with high-quality components

#### **Mission Statement**

PeriOptix strives to provide high quality magnification and illumination technologies that allow the dental professional to identify issues, ascertain problems, and implement solutions for their patients at an affordable cost. Our products not only enhance patient care through better visual acuity, but also promote proper ergonomics which can reduce fatigue and extend career longevity.







## PeriOptix® Loupes

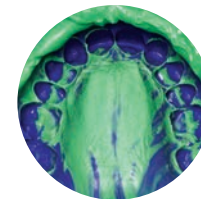
### *See the PeriOptix difference.*

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.

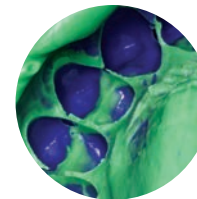


**A Certified DenMat Distributor** can fit you for the perfect flip-up or through-the-lens loupes. All DenMat distributors are trained and certified to assist you with your loupe needs.

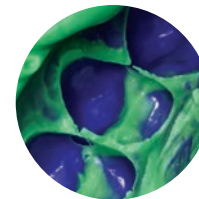
### A Reference for Magnification and Field of View\*



No Magnification

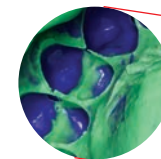


2.5x Magnification



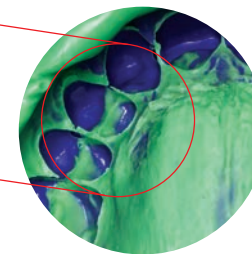
3.5x Magnification

### Small Field of View



*Higher magnification typically results in a smaller field of view.*

### Large Field of View



\*As seen on a SplashMax impression.

# 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.

**Frame Options:** PeriVista Sport, Greg Norman Sports Titanium, Classic Titanium



## 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 image clarity.

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

\*All measurements are taken on the PeriVista Sports 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, Rimz



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

## 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, Rimz, Hogies, Air-X

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



## 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

\*All measurements are taken on the Mirage Frame at a long working distance.







# Frames

## 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.

*“Not only do these lightweight Loupes relieve fatigue, but my ergonomics are always in-check because of the custom measurements. I love my PeriOptix!”*

Annette Stelter  
Coast Oral Facial Institute  
Newport Beach, CA



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## PeriVista Sports Frame by Adidas: *Stylishly Customizable*

The PeriVista sports 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

**Color Options:**



Matte Black



Red



Grey



Copper



Gold (Titan)



White



Blue (Petrol)



Silver

\*Large size only available in Matte Black and White.



Laser loupe inserts  
now available!



## Greg Norman Sports Frame: *Ultralight Contemporary Style*

The Greg Norman sports frame is lightweight and made of a titanium material that is designed for style and comfort. This frame has a fully adjustable nosepiece and a large polycarbonate shield for extra splatter protection. The Greg Norman frame is equipped with patented TurboFlex technology which allows the temple arms to rotate easily which avoids breakage.

- Semi-rimless and scratch resistant lenses
- Lightweight and durable titanium construction
- Adjustable saddle nose bridge
- Prescription lenses available

**Loupe Options:** Through-the-Lens

**Color Options:**



Blue



Red



Yellow



Patented TurboFlex  
technology





## 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

**Color Options:**



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, Legacy, Microline Flip-Up

**Color Options:**



Red



Smoke Grey



Metallic Blue



Black



## Air-X: Lightweight Loupes Ideal for Laser Dentistry\*

The Air-X frame is lightweight, strong, and designed to be worn over prescription eyeglasses. The large and removable face shield gives the wearer ultimate, wrap-around protection from splatter.

- Snap-on safety shield
- Adjustable nose pad
- Optional laser shield inserts available

**Loupe Options:** Panoramic Flip-Up

**Color Options:**



White/Red

**Laser Shield Options:**



Green  
(For Diode, Nd:YAG,  
and CO2 Use)

Pink  
(For Diode Use Only)



\*Frame not available in Europe.

## 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)

**Mirage**



**Color Options:**



Red



Black

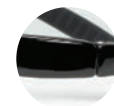
**Rimz**



**Color Options:**



Red



Black



Pink



Blue



White



Silver

**Loupe Options:** Legacy Flip-Up

# Headlights



## PeriOptix® Headlight Systems

*See what you've been missing.*

PeriOptix improves visual acuity through powerful headlights that remove shadows in the oral cavity, eliminating the need for constant adjustment of overhead lighting.

All PeriOptix lights seamlessly upgrade your current loupes by providing uniform and natural-color output necessary to ensure the best outcome with your patients.



*Without PeriOptix light*



*With PeriOptix light*



## Firefly: Cordless. Powerful. Elegant.

Easily upgrade your favorite pair of loupes to incorporate a Firefly™ cordless headlight, and enjoy the freedom to move through any procedure with confidence and without interruptions.

- Eliminates heavy power packs and annoying cords
- Easy to clean, reducing the risk of cross-contamination
- Provides a well-defined and uniform spot with natural color output



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



**Light Intensity:** 2 settings — high 32,000 lux and low 20,000 lux

**Weight:** 28 grams

**Field Illumination:** 7.0 cm

**Estimated Battery Life:** 150 minutes on low, 90 minutes on high

**Estimated Charging Time:** Charges both pods in under 2 hours

**Loupe Options:** All PeriOptix loupes, headband and the majority of competing brands

**Colors:** Available in black, red and blue



10%  
LIGHTER!\*\*

**95g**  
Designs for Vision  
Cordless

**85g**  
Firefly™  
PeriOptix

**70% of dentists**  
who evaluated these products  
preferred the Firefly over the  
Designs for Vision Cordless.

\*According to DPS and Reality evaluators.

\*\* Data on file.

## MicroLine Mini: *Our Lightest LED Headlight*

The MicroLine™ Mini LED is significantly smaller and lighter than most other LED headlights. With a diameter about the size of a dime and weighing less than 9 grams, the MicroLine Mini delivers an amazing output of uniform light across the entire oral cavity.



**Light Intensity:** Fully adjustable up to 40,000 lux

**Weight:** 9 grams

**Field Illumination:** 7.5 cm

**Estimated Battery Life:** 8 hours

**Estimated Charging Time:** 3 hours

**Loupe Options:** All PeriOptix loupes, headbands and the majority of competing brands



## Solaris: *Brightest Lightweight LED Headlight*

The Solaris® LED Headlight has been around for years and is still one of the brightest LED lights on the market, making it ideal for anyone needing a little extra illumination. The Solaris has been independently top rated by both REALITY and CR.



**Light Intensity:** Fully adjustable up to 80,000 lux

**Weight:** 14 grams

**Field Illumination:** 8.0 cm

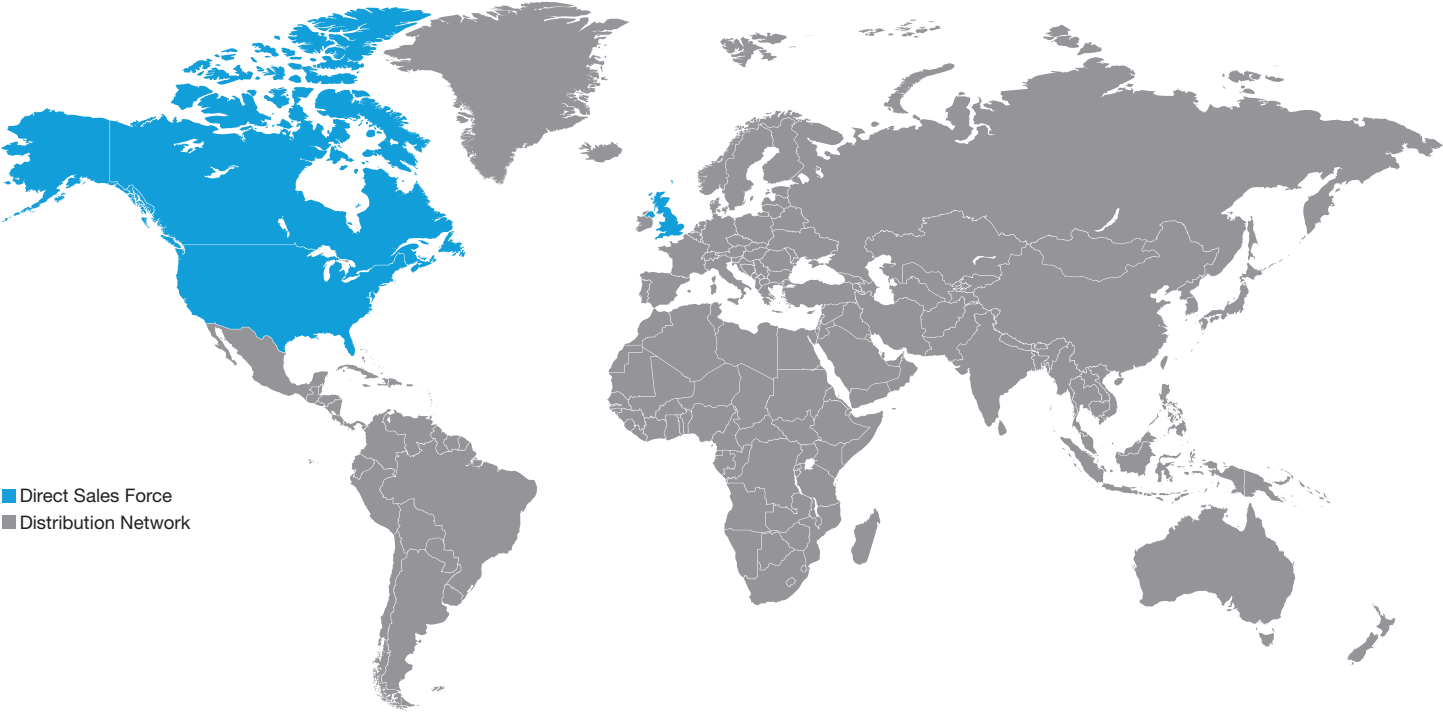
**Estimated Battery Life:** 5 hours

**Estimated Charging Time:** 3 hours

**Loupe Options:** All PeriOptix loupes, headbands and the majority of competing brands



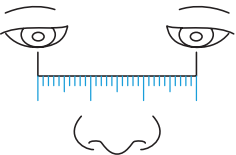
# Global Sales Network



Contact us at [international@denmat.com](mailto:international@denmat.com) or visit [www.denmat.com](http://www.denmat.com) to find a distributor in your area.

## Pupillary Distance

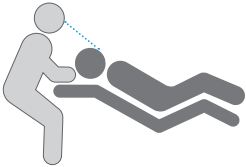
Pupillary Distance (PD) is the measurement, in millimeters, between the centers of the pupils in each eye. This measurement can be done quickly by your local PeriOptix representative or by any optometrist. Note: If measured by an optometrist make sure the measurement is taken at infinity ( $\infty$ ).



Right PD	Total PD	Left PD

## Working Distance

Working Distance is the measurement at which the user is comfortable working. This distance should be calculated while the user is in an upright, and comfortable position that keeps the clinician's ergonomics in check.



- S 30-38 cm (12-14 inches)
- R 39-45 cm (15-17 inches)
- L 46-53 cm (18-20 inches)
- XL 54-60 cm (21-23 inches)

## WARRANTY

DenMat warrants its products to be free of original defects in material and workmanship and to perform in accordance with specifications for the following terms:

### Limited Lifetime Warranty

All Loupe optics, Solaris and Mini headlight element. All working parts of the loupe hinge mechanism.

### One-Year Limited Warranty

All Loupe frames except Rimz and Mirage. All components of Solaris and Mini headlight system.

### Six-Month Limited Warranty

Rimz and Mirage frames.





