



## Custom loupes and headlights with an unbeatable combination of both quality and value.

PeriOptix, owned and operated by DenMat since 2013, has been one of the top 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
- Top-rated, lightweight loupe and headlight options
- Premium brand name frames like Adidas<sup>®</sup> and Hogies<sup>®</sup>
- Made in the U.S.A. with a California-based customer care and service center

### 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

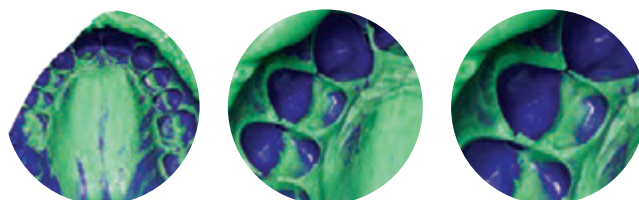
### See the PeriOptix difference.

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.



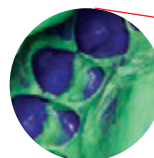
A Certified DenMat Loupe Specialist can fit you for the perfect flip-up or through-the-lens loupes. All DenMat sales representatives are trained and certified to assist you with your loupe needs.

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

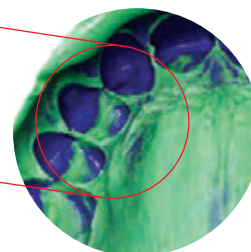


No Magnification    2.5x Magnification    3.5x Magnification

#### Small Field of View



#### Large Field of View



Higher magnification typically results in a smaller field of view.

\*As seen on a SplashMax impression.

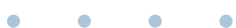
## PeriOptix® TTL Optics

### The 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, 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:** 3.5 inches **Depth of Field:** 4.5 inches



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:** 3.5 inches **Depth of Field:** 4.0 inches



## 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:** 2.5 inches **Depth of Field:** 3 inches



## 4.0xTTL Prismatic Loupes

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

**Weight:** 61 grams **Field of View:** 2.5 inches **Depth of Field:** 2.5 inches



\*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: 3 inches

Depth of Field: 4 inches

### 2.7x Microline Loupes

Weight: 54 grams

Field of View: 2.5 inches

Depth of Field: 3 inches

Frame Options: PeriVista Sport

\*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: 3.5 inches

Depth of Field: 4 inches

### 3.0x Panoramic Loupes

Weight: 66 grams

Field of View: 3 inches

Depth of Field: 3 inches

### 3.5x Panoramic Loupes

Weight: 64 grams

Field of View: 2.5 inches

Depth of Field: 2.5 inches

Frame Options: PeriVista Sport, Hogies

\*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: 3.5 inches

Depth of Field: 4 inches

### 3.0x Legacy Loupes

Weight: 73 grams

Field of View: 3 inches

Depth of Field: 3.5 inches

### 3.5x Legacy Loupes

Weight: 71 grams

Field of View: 2.5 inches

Depth of Field: 3 inches

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



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.



## 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

**Color Options:**



Matte Black



Red



Grey



Copper



Gold (Titan)



White



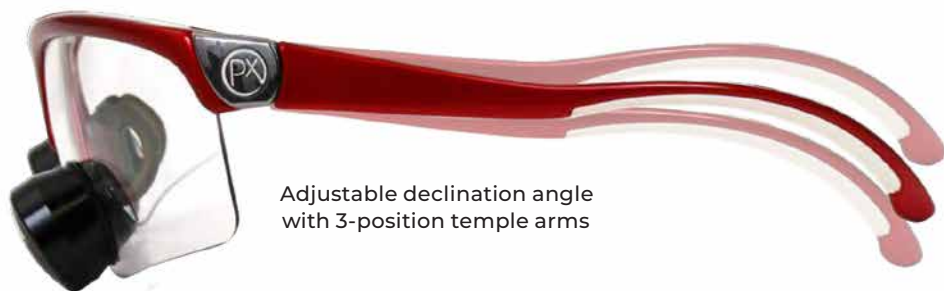
Blue (Petrol)



Silver

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

## Unique Frame Features



Adjustable declination angle with 3-position temple arms

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



2-position adjustable nose piece

## 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
- Study and fully rimmed, titanium design

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

**Color Options:**



Titanium

Brown

Yellow\*

\*Greg Norman™ Semi-Rimless Frame



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

**Color Options:**



Red

Smoke Grey

Metallic Blue

Black







## Mirage: Greatest Value With Prescription Insert Option

The Mirage 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

**Loupe Options:** Legacy Flip-Up

**Color Options:**



Red



Black



## Rimz: Greatest Value on the Market

The 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

**Loupe Options:** Legacy Flip-Up

**Color Options:**



Red



Black



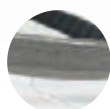
Pink



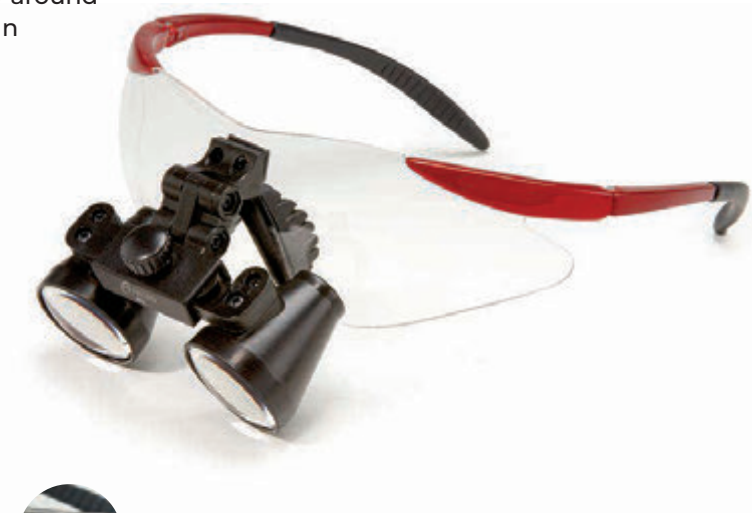
Blue



White



Silver





# 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

\*According to DPS and Reality evaluators.



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



10%  
LIGHTER!\*

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

**Weight:** 28 grams

**Field Illumination:** 70 mm

**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, headbands and the majority of loupes in the market

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

\* Data on file.



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

## MicroLineMini:™ 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:** 75 mm

**Estimated Battery Life:** 8 hours

**Estimated Charging Time:** 3 hours

**Loupe Options:** All PeriOptix loupes, headbands and the majority of loupes in the market



## 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:** 80 mm

**Estimated Battery Life:** 5 hours

**Estimated Charging Time:** 3 hours

**Loupe Options:** All PeriOptix loupes, headbands and the majority of loupes in the market







## Read what your peers are saying about PeriOptix!

"I wanted my patients to still see me and not a pair of goggles and binoculars on my face. With the MicroLine I was able to achieve a clean, simple and stylish pair of loupes that don't throw off my appearance. I love the way they look!"

— Stacey C. Layman, DDS, D-ABDSM

"PeriOptix have greatly enhanced the way I practice dentistry. No more irritating, twisting cords or heavy, cumbersome glasses and head lights. Illuminated magnification made comfortable. Thank you PeriOptix."

— Peter Vanstrom, DDS

"Loupes have transformed my hygiene practice. My ability to identify concerns in my patients' mouths is greatly enhanced because I am able to see far better than at any previous point in my 24-year practicing life. The strain on my body is also greatly reduced — a daily and a life-long benefit to my health. I believe loupes should be standard equipment for every hygienist and taught in every hygiene program."

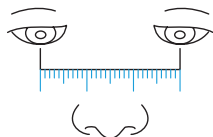
— Sara Paone, RDH

"Ordering custom loupes from PeriOptix was simple and the customer service support has been equally amazing. My new loupes and light are so comfortable and light, allowing me to see what I need without excess strain, which means better care for my patients. Thank you PeriOptix!"

— Amy Ericks, RDH

### Pupillary Distance

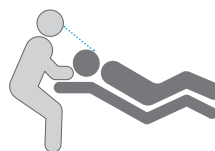
Pupillary Distance (PD) is the measurement, in millimeters, between the centers of the pupils in each eye. This measurement can be done quickly by your local PeriOptix representative or by any optometrist. Note: If measured by an optometrist make sure the measurement is taken at infinity ( $\infty$ ).



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	12 – 14 in (308 – 380 mm)
R	15 – 17 in (380 – 455 mm)
L	18 – 20 in (455 – 530 mm)
XL	21 – 23 in (530 – 605 mm)

#### WARRANTY

Den-Mat Holdings, LLC warrants its products to be free of original defects in material and workmanship and to perform in accordance with specifications for the following terms:

##### One-Year Limited Warranty

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

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

##### Six-Month Limited Warranty

Rimz and Mirage frames.

##### Important Note:

PERIOPTIX HEADLIGHTS CONTAIN A LITHIUM-ION BATTERY. AS A RESULT PLEASE DO NOT STORE THE UNIT UNCHARGED FOR AN EXTENDED PERIOD OF TIME AS THIS MAY CAUSE THE BATTERY TO DISCHARGE AND REDUCE THE LIFETIME OF THE UNIT.

