INTRODUCTION

**OUR VISION** is that every healthcare procedure in the world — from residency to retirement — will be performed with superior visualization under the best ergonomic conditions for the clinician in order to drive the best patient outcomes.

Here are just a few reasons why Orascoptic has been a pioneer in medical vision for over 35 years:

- Orascoptic offers a full catalog of magnification, illumination, and ergonomic solutions
- Each Orascoptic loupe is custom-crafted with meticulous precision in Madison, Wisconsin using the latest digital measurement technology
- All products are assembled in an FDA-regulated facility featuring an in-house optical lab to meet any eye prescription needs
- Orascoptic frames are engineered with adjustable nose pads, flexible temple hinges, anti-reflective lens coatings and working distances refined in half-inch increments
- Steep declination angles allow for improved posture and help reduce musculoskeletal strain

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ABOUT MAGNIFICATION

Choosing the right type loupe for your future profession can be a daunting task. The three most important aspects of magnification are: Clarity, Field of View, and Field Depth.

Clarity is the product of resolution x light transmission. Loupes with a high resolution will display a crisp image with edge-to-edge clarity. There is a direct correlation between the quality of the light transmission in your loupes and the brightness of the image you see. The greater the light transmission, the brighter the image, and the brighter the image, the more detail. Light transmission + resolution = clarity.

Data and provided by Wells Research & Development, an independent research firm.
The difference is striking. In a series of third-party lab tests, Orascoptic’s 2.5x loupes consistently outperformed the competition with superior combined scores for field width, field depth, resolution and light transmission. Most notably, our scores were outstanding in the areas that contribute most to image clarity.

Third-party testing confirms that with best in class optical resolution and best in class light transmission, Orascoptic loupes deliver the clearest image quality in the industry.

The Light Transmission Test

This test measured how much light passes through the optic to the eye. The greater the light transmission, the brighter the image which together enhances image clarity.

For the light transmission test, Orascoptic’s loupes measured:

- 40% better than Manufacturer A
- 14% better than Manufacturer B
- 20% better than Manufacturer C

To learn more about the tests, visit orascoptic.com.

Did You Know?

As our eyes age, less light reaches our retinas. Orascoptic loupes have a greater light transmission which allows you to maintain a high level of clarity and detail as you progress in your career.

The Resolution Test

Scores were determined by viewing the industry-standard USAF resolution target (below) through each telescope and performing the relevant calculations.

For the resolution test, Orascoptic’s loupes measured:

- 125% better than A
- 12% better than B
- 26% better than C

ORASCOPTIC (22.63 LP/mm)  MANUFACTURER A (10.03 LP/mm)  MANUFACTURER B (20.16 LP/mm)  MANUFACTURER C (17.96 LP/mm)
NOTE: Simulated comparison of third-party lab tests conducted 2018
Innovation is our way of life. We remain steadfastly committed to investing in innovation to advance the leading edge of design in the field of dental & surgical loupes and headlights. We are proud to have presented the industry with many ‘first and onlys.’ Here’s a look at some of the innovations, many of which are available exclusively through Orascoptic.

INNOVATION is a core value at Orascoptic.

EYEZOOM™
The first and only 3-in-1 adjustable magnification loupe — like owning three loupes in one.

XVI™
The complete package — the first and only integrated loupe and headlight in one.

EXPANDED FIELD PRISMS
Enables precise interactions and enhanced visibility for various exacting procedures 3.5x to 5.5x.
**OMNIOPTIC™**
The first and only interchangeable magnification loupe.

**PATENTED HEADLIGHTS**
U.S. patents granted for the optical design in each of our headlights, enabling uniform light distribution.

**ERGOEDGE™ RDH ELITE EDGE™**
These patent-pending frames include the ability to fine-tune the declination angle of your loupes.

**TRUCOLOR™**
The first high-color rendering index (CRI) illumination in an LED loupe-mounted headlight.
Choosing an optic is the first step in designing your ideal loupe.

**HDL™ 2.5 Micro** (2.5x) | Field Width 3.4" (8.75 cm); Field Depth 7.0" (17.80 cm)

**HDL™ 2.5 Macro** (2.5x) | Field Width 4.0" (10.40 cm); Field Depth 5.0" (12.70 cm)

**RDH Elite™** (2.5x) | Field Width 4.0" (10.20 cm); Field Depth 6.0" (15.20 cm)

**HDL™ 3.0** (3.0x) | Field Width 3.1" (7.90 cm); Field Depth 7.5" (19.0 cm)
**OPTICS**

**PRISMATIC TELESCOPES**

- **HDL™ 3.5 (3.5x)** | Field Width 3.5" (8.90 cm); Field Depth 3.6" (9.10 cm)

- **HDL™ 4.5 (4.5x)** | Field Width 2.95" (7.50 cm); Field Depth 2.64" (6.70 cm)

- **HDL™ 5.5 (5.5x)** | Field Width 2.51" (6.40 cm); Field Depth 2.32" (5.90 cm)
Offering two adjustable magnification solutions, EyeZoom™ features three magnification levels ranging from 3x-5x, while EyeZoom Mini™ features two magnification levels allowing the user to switch between 2.5x and 3.5x. Orascoptic’s EyeZoom and EyeZoom Mini offer clinicians the ability to switch between multiple magnification powers to accommodate a variety of procedures that require varying degrees of detail. Use lower magnification for routine dental examinations and preparation for crown and bridge procedures. Increase magnification for more complex and exacting procedures.

<table>
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<tr>
<th>Magnification</th>
<th>Field Width</th>
<th>Field Depth</th>
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<tbody>
<tr>
<td><strong>EyeZoom™</strong></td>
<td>(3.0x)</td>
<td>4.0&quot; (10.20 cm)</td>
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<td>(4.0x)</td>
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<tr>
<td><strong>EyeZoom™ Mini</strong></td>
<td>(2.5x)</td>
<td>3.97&quot; (10.10 cm)</td>
</tr>
<tr>
<td></td>
<td>(3.5x)</td>
<td>3.19&quot; (8.10 cm)</td>
</tr>
</tbody>
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**OPTICS**  INTERCHANGEABLE MAGNIFICATION

*OmniOptic™ — Discover the first and only* interchangeable magnification loupe that allows clinicians to select the optimal magnification power for each procedure. Accommodating four magnification powers ranging from 2.5x – 5.5x, the OmniOptic is an ideal system for users looking to increase their magnification power over the course of their career.

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**LOUPE OPTIONS**

HDL™ 2.5 Macro · HDL 3.5 · HDL 4.5 · HDL 5.5

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**FRAME OPTIONS**

ErgoEdge™ · Rydon™ · Tempo™ · Victory™ · XVI™
One of the things that truly sets Orascoptic apart is that we want our frames to first and foremost be functional platforms for medical devices. We place performance, durability and safety as high priorities when designing frames. We pride ourselves on delivering a high-quality design, yet we know for our customers feeling and looking great while wearing their loupes is a close second. We’re proud to say that advances in our custom frames have smoothly blended style and safety with numerous frame style and color options.

**FRAME EDUCATION**

- **Anti-Reflective Lens Coating**
  - For unsurpassed visual acuity

- **Adjustable Nose Pad**
  - Provides added comfort

- **Bendable Temple Tips**
  - For added stability

- **Flex Hinges**
  - Maintains loupe alignment

- **Scratch-Resistant Lens Coating**
  - Ensures unhindered visual acuity

- **Multiple Frame Sizes & Styles**
  - For a truly custom fit

- **Prescription Support**
  - Built into both the carrier lenses and telescopes

- **Aluminum or Magnesium Optics**
  - For lightweight durability

- **Customized Working Distance**
  - To the nearest half-inch
Experience the comfort of our latest frame innovation, ErgoEdge™. This patent-pending frame includes numerous adjustable features—most notably the ability to fine-tune the declination angle of your loupes using ComforTilt™ technology. Simply loosen the screw on the inside of the temple arm to adjust the angle of your frame + or - 5 degrees. You can adjust this frame’s nose pad and temple tips to your liking and it comes with a head strap that clips directly into the temple tips for a more secure fit.

**ERGOEDGE™**

**TELESCOPE OPTIONS**
HDL™ 2.5 Micro · HDL™ 2.5 Macro · HDL™ 3.0 · HDL™ Prisms · EyeZoom™ Mini · EyeZoom™
FRAMES

RDH ELITE™

TELESCOPE OPTIONS

RDH ELITE

Black  Blue  Orange  Pink

RDH ELITEEDGE™

TELESCOPE OPTIONS

RDH ELITE

Black  Blue  Pink  Purple
FRAMES

VICTORY™

TELESCOPE OPTIONS
HDL™ 2.5 Micro · HDL™ 2.5 Macro · HDL™ 3.0 · HDL™ 3.5
HDL 4.5 · HDL 5.5 · EyeZoom™ Mini · EyeZoom™

Black · Blue · Merlot · Slate

TEMPO™

TELESCOPE OPTIONS
HDL™ 2.5 Micro · HDL™ 2.5 Macro · HDL 3.0 · HDL 3.5
HDL™ 4.5 · HDL™ 5.5 · EyeZoom™ Mini · EyeZoom™

Black · Blue · Merlot · Slate · Twist
FRAMES

FLAK 2.0®

TELESCOPE OPTIONS
HDL™ 2.5 Micro · HDL™ 2.5 Macro · HDL™ 3.0

RYDON™

TELESCOPE OPTIONS
HDL™ 2.5 Micro · HDL™ 2.5 Macro · HDL™ 3.0 · HDL™ 3.5
HDL™ 4.5 · HDL™ 5.5 · EyeZoom™ Mini · EyeZoom™

Black Carbon Platinum Blue Merlot Tortoise

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ABOUT ILLUMINATION

Orascoptic loupe-mounted LED headlights allow for proper illumination. Here’s what to consider:

The Color Rendering Index (CRI) is an industry standard measurement of color accuracy in lights. Our TruColor headlights have a CRI of 90+ compared to our competitors’ ~ 70. TruColor technology fulfills our core mission: set the standard for driving innovation.

Spot Uniformity: A uniform round spot means that the brightness and color of the light are consistent from edge to edge, as opposed to dimming on one side or a blurred edge. Using a light with a uniform spot helps to prevent eye strain or fatigue.

Orascoptic was granted a U.S. patent for the optical design used in each of its headlights. With Orascoptic-exclusive technology, clinicians can flood oral and surgical sites with a more uniform distribution of light, using an optical design that is lighter weight than before — that’s a win-win!

Brightness: Don’t it get twisted — comparing lumens to footcandles is like comparing apples to oranges. Information based on such a comparison wouldn’t be accurate. Orascoptic headlights range from 32 lumens (Spark) to 85 lumens (Endeavour XL). We are happy to help you determine which level of intensity best suits your day-to-day.

For our complete line of both corded and cordless headlights, please see pages 16-17.
The difference is in the **spot quality**. Spot size and color are important factors to consider when determining the quality of a light. We partnered with an independent research firm to conduct a comparative study on the quality of the Orascoptic light versus four main competitors. You can see the results for yourself.

Each Orascoptic headlight model is tested to ensure compliance with blue light testing standards set by the International Electrotechnical Commission. To learn more, visit orascoptic.com/products/headlights.
**TruColor™ A Breakthrough in Loupe Illumination Technology**

TruColor™ is Orascoptic’s breakthrough technology — high-color rendering index (CRI) illumination is now available for the first time across Orascoptic’s range of loupe-mounted LED headlights. TruColor enables each headlight system to render colors as close as possible to natural sunlight, providing a higher level of color accuracy.

TruColor represents a fundamental leap forward in loupe illumination technology. With a CRI of 90+, TruColor delivers the most precise color without sacrificing the high-quality light output, spot uniformity or battery life you expect from Orascoptic headlights.

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**The TruColor™ Advantage**

- Breakthrough color rendering
- More natural, accurate reds, yellow and whites
- Identify tissue colors, match shades
- CRI > 90 vs the current industry standard of CRI - 70

Available for our entire line...

Spark TruColor™ · XVI TruColor™ · Endeavour TruColor™ · Endeavour XL TruColor™
Proper illumination during procedures and examinations helps to identify critical details are not overlooked by the naked eye.

Self-contained cordless headlight that integrates with virtually any loupe or eyewear model. The Spark dispenses weight evenly across the bridge of the frame.

LIGHT INTENSITY 32 Lumens
HEADLIGHT WEIGHT 1.12 oz (31.8 g)
BATTERY LIFE (2) 6 hours each
CHARGING TIME 2 hours

Designed with a perfect synergy between magnification and illumination, the XVI is the first and only wireless loupe and headset in one.

LIGHT INTENSITY low: 42 Lumens; high: 68 Lumens
HEADLIGHT WEIGHT 5.7 oz (161.7 g)
BATTERY LIFE 10 hours on low; 6 hours on high
CHARGING TIME Less than 2 hours
ILLUMINATION (continued)

ENDEAVOUR™ & ENDEAVOUR™ XL

A portable LED light system, the Endeavour provides a precise focused beam of light that is distributed evenly across the field of view. The Endeavour XL headlight provides a precise beam of light that helps illuminate critical details that can often be overlooked by the naked eye.

**LIGHT INTENSITY** 32 / 53 / 68 Lumens  
**HEADLIGHT WEIGHT** 0.38 oz (10.8 g)  
**BATTERY LIFE** up to 18 hours

Endeavour

**LIGHT INTENSITY** 53 / 68 / 85 Lumens  
**HEADLIGHT WEIGHT** 0.38 oz (10.8 g)  
**BATTERY LIFE** up to 24 hours

Endeavour XL

- 25% brighter than Endeavour
- 25% longer battery run time than Endeavour
- 24-hour continuous battery life
STUDENT PROGRAM INCENTIVES

As a student, you have enough to worry about. Stay focused on your education, and we'll take care of the rest when it comes to your visualization needs.
BUILD THE PERFECT LOUPE

Building your dream loupe is as easy as a few clicks. Just let us know what loupe model you’re interested in, and what frame style and color you want to mount it on, and you’re on your way!

Our easy web interface will walk you right through every step in a matter of minutes.

orasoptic.com/loupe-builder