Product Catalog

SURGEONS DENTISTS HYGIENISTS

orascoptic.com
OUR VISION

AT ORASCOPTIC, WE ENVISION every healthcare procedure in the world being performed with superior visualization under the best ergonomic conditions for the clinician to drive the best patient outcomes.

Recognized as a pioneer in medical vision for over 35 years, Orascoptic continues to offer healthcare professionals superior products that focus on magnification and illumination.

- Our legacy of advanced performance and clinician-first features sets the bar for craftsmanship, innovation and durability.
- Each Orascoptic loupe is custom-crafted with meticulous precision in Madison, Wisconsin and personalized to the individual’s facial geometry, ensuring optimal resolution across the widest and deepest field of view.
- Engineered with performance and comfort in mind, our loupes employ rich details such as adjustable nose pads, flexible temple hinges, anti-reflective lens coatings and working distances refined in half-inch increments. Additionally, steep declination angles allow for improved posture and help reduce strain.

Discover how Orascoptic continually shatters the status quo with award-winning optical innovations such as the EyeZoom™ loupe with three adjustable magnification levels and the XV1™ loupe, the first and only all-in-one wireless loupe & headlight.
**LOUPES**

**HDL™ 2.5 MICRO**

*Pushing the boundaries* of a typical micro optic, the loupe provides a generous field of view with edge-to-edge clarity. The exceptionally small profile also allows for additional viewing space above the telescope.

**HDL™ 2.5 MACRO**

*Delivering an equivalent image quality* to the HDL 2.5 Micro, the HDL 2.5 Macro distinguishes itself with sizeable field width that allows instruments to be transitioned into the field of view with ease.

**MOUNTING OPTIONS**

- Through-the-Lens

**FRAME OPTIONS**

- ErgoEdge™
- Flak 2.0®
- Rydon™
- Tempo™
- Victory™
- XV1™

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Series</th>
<th>Power</th>
<th>Working Distance</th>
<th>Field Width</th>
<th>Field Depth</th>
<th>Weight*</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDL Micro</td>
<td>2.5x</td>
<td>Customized to each user</td>
<td>3.4” (8.75 cm)</td>
<td>7.0” (17.80 cm)</td>
<td>TTL 1.36 oz (38.60 g)</td>
</tr>
<tr>
<td>HDL Macro</td>
<td>2.5x</td>
<td>Customized to each user</td>
<td>4.0” (10.40 cm)</td>
<td>5.0” (12.70 cm)</td>
<td>TTL 1.80 oz (50.70 g)</td>
</tr>
</tbody>
</table>

* measured on Orascoptic Victory Frame, see pg 13
HDL™ 3.0

Comparable to its predecessor — the HDL™ 2.5 — this custom-crafted loupe boasts edge-to-edge clarity and a generous field of view. Compact and lightweight, this loupe is designed to deliver a comfort rarely associated with Galilean optics of equivalent magnification power.

MOUNTING OPTIONS
Through-the-Lens

FRAME OPTIONS
ErgoEdge™ · Flak 2.0® · Rydon™ · Tempo™
Victory™ · XV1™

SPECIFICATIONS
Each loupe package includes side shields, head strap, personalized storage case, prescription lens, optical screw driver and cleaning cloth.

<table>
<thead>
<tr>
<th>Series</th>
<th>Power</th>
<th>Working Distance</th>
<th>Field Width</th>
<th>Field Depth</th>
<th>Weight*</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDL</td>
<td>3.0x</td>
<td>Customized to each user</td>
<td>3.1” (7.90 cm)</td>
<td>7.5” (19.0 cm)</td>
<td>TTL 1.70 oz (48.70 g)</td>
</tr>
</tbody>
</table>

* measured on Orascoptic Victory Frame, see pg 13
**LOUPES**

**HDL™ PRISMS**

**Prismatic Expanded Field Loupes** — Ranging from 3.5x to 5.5x, these loupes are designed for healthcare professionals who perform exacting procedures. The HDL prisms enable precise interactions, enhanced visibility and provide a customizable declination angle that accommodates various surgical procedures. The compact design and brushed metallic finish of the telescope offers an aesthetically pleasing element to this medical device.

**MOUNTING OPTIONS**
Through-the-Lens

**FRAME OPTIONS**
- ErgoEdge™
- Rydon™
- Tempo™
- Victory™
- XV1™

**SPECIFICATIONS**
Each loupes package includes side shields, head strap, personalized storage case, prescription lens, optical screw driver and cleaning cloth.

<table>
<thead>
<tr>
<th>Series</th>
<th>Power</th>
<th>Working Distance</th>
<th>Field Width</th>
<th>Field Depth</th>
<th>Weight*</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDL</td>
<td>3.5x</td>
<td>Customized to each user</td>
<td>3.5” (8.90 cm)</td>
<td>3.6” (9.10 cm)</td>
<td>TTL 2.4 oz (67.5 g)</td>
</tr>
<tr>
<td></td>
<td>4.5x</td>
<td>Customized to each user</td>
<td>2.95” (7.50 cm)</td>
<td>2.64” (6.70 cm)</td>
<td>TTL 2.5 oz (71.5 g)</td>
</tr>
<tr>
<td></td>
<td>5.5x</td>
<td>Customized to each user</td>
<td>2.51” (6.40 cm)</td>
<td>2.32” (5.90 cm)</td>
<td>TTL 2.6 oz (74.4 g)</td>
</tr>
</tbody>
</table>

* measured on Orascoptic Victory Frame, see pg 13
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.

MOUNTING OPTIONS
Through-the-Lens

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

FRAME OPTIONS
ErgoEdge™ · Rydon™ · Tempo™ · Victory™ · XVI™

SPECIFICATIONS
Each loupe package includes side shields, head strap, personalized storage case, prescription lens, optical screw driver and cleaning cloth.

<table>
<thead>
<tr>
<th>Series</th>
<th>Power</th>
<th>Working Distance</th>
<th>Weight*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2.5x</td>
<td>Customized to each user</td>
<td>2.02 oz (57.3 g)</td>
</tr>
<tr>
<td>OmniOptic</td>
<td>3.5x</td>
<td>Customized to each user</td>
<td>2.66 oz (75.3 g)</td>
</tr>
<tr>
<td></td>
<td>4.5x</td>
<td>Customized to each user</td>
<td>2.79 oz (79.1 g)</td>
</tr>
<tr>
<td></td>
<td>5.5x</td>
<td>Customized to each user</td>
<td>2.90 oz (82.1 g)</td>
</tr>
</tbody>
</table>

*measured on Orascoptic Victory Frame, see pg 13
OPTICS ADJUSTABLE MAGNIFICATION

**EYEZOOM™ & EYEZOOM™ MINI**

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.

**EYEZOOM ADJUSTABLE MAGNIFICATION**

EyeZoom employs 3-step variable magnification

**EYEZOOM MINI ADJUSTABLE MAGNIFICATION**

EyeZoom Mini employs 2-step variable magnification

**QUALITY ENGINEERING**

Optics co-engineered by Orascoptic™ & Konica Minolta™
The first ever 3-in-1 and 2-in-1 adjustable magnification loupes, EyeZoom and EyeZoom Mini were developed to assist healthcare professionals view an operating site from multiple perspectives, conforming to fit each user’s individual preference.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Series</th>
<th>Power</th>
<th>Working Distance</th>
<th>Field Width</th>
<th>Field Depth</th>
<th>Weight*</th>
</tr>
</thead>
<tbody>
<tr>
<td>EyeZoom</td>
<td>3.0x</td>
<td>Customized to each user</td>
<td>4.0” (10.20 cm)</td>
<td>4.0” (10.20 cm)</td>
<td>TTL 3.4 oz (97.6 g)</td>
</tr>
<tr>
<td></td>
<td>4.0x</td>
<td>Customized to each user</td>
<td>3.25” (8.30 cm)</td>
<td>3.25” (8.30 cm)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5.0x</td>
<td>Customized to each user</td>
<td>2.50” (6.35 cm)</td>
<td>2.50” (6.35 cm)</td>
<td></td>
</tr>
<tr>
<td>EyeZoom Mini</td>
<td>2.5x</td>
<td>Customized to each user</td>
<td>3.97” (10.10 cm)</td>
<td>4.76” (12.10 cm)</td>
<td>TTL 2.6 oz (73.7 g)</td>
</tr>
<tr>
<td></td>
<td>3.5x</td>
<td>Customized to each user</td>
<td>3.19” (8.10 cm)</td>
<td>3.78” (9.60 cm)</td>
<td></td>
</tr>
</tbody>
</table>

*EyeZoom measured on Orascoptic Legend Frame; EyeZoom Mini measured on Orascoptic Victory Frame, see pg 13

**MOUNTING OPTIONS**

Through-the-Lens

**FRAME OPTIONS**

ErgoEdge™ · Rydon™ · Tempo™ · Victory™ · XV1™
HYGIENE LOUPES

RDH ELITE™
Orascoptic’s first loupe with a singular focus on the dental hygiene industry. Designed by a team of both practicing hygienists and industry-recognized experts in ergonomics and infection control, the RDH Elite is centered on improving ergonomics and productivity.

MOUNTING OPTIONS
Through-the-Lens

FRAME OPTIONS
Iconic · Sport

SPECIFICATIONS
Each loupe package includes side shields, head strap, personalized storage case, prescription lens, optical screw driver and cleaning cloth.

<table>
<thead>
<tr>
<th>Series</th>
<th>Power</th>
<th>Working Distance</th>
<th>Field Width</th>
<th>Field Depth</th>
<th>Weight*</th>
</tr>
</thead>
<tbody>
<tr>
<td>RDH Elite</td>
<td>2.5x</td>
<td>Customized to each user</td>
<td>4.0” (10.20 cm)</td>
<td>6.0” (15.20 cm)</td>
<td>TTL 1.9 oz (58.4 g)</td>
</tr>
</tbody>
</table>

* measured on Orascoptic RDH Iconic Frame, see pg 13
RDH ELITE EDGE™

Ergonomic focus — Accommodates steep telescope declination for proper posture.

Optimal Field of View — Encompasses a field width and depth recommended for dental hygiene professionals.

Infection Protection — Deep carrier lens and custom-designed side shields provide additional protection from debris and backslash.

Fashionable — Iconic frame styles feature interchangeable temple tips and color emblems allowing you to add your own personal style.

SPECIFICATIONS

Each loupe package includes side shields, head strap, personalized storage case, prescription lens, optical screw driver and cleaning cloth.

<table>
<thead>
<tr>
<th>Series</th>
<th>Power</th>
<th>Working Distance</th>
<th>Field Width</th>
<th>Field Depth</th>
<th>Weight*</th>
</tr>
</thead>
<tbody>
<tr>
<td>RDH EliteEdge</td>
<td>2.5x</td>
<td>Customized to each user</td>
<td>4.0” (10.20 cm)</td>
<td>6.0” (15.20 cm)</td>
<td>TTL 1.5 oz (43.3 g)</td>
</tr>
</tbody>
</table>

* measured on Orascoptic RDH Elite Edge Frame, see pg 13
FLIP-UP LOUPES

UNIVERSAL FLIP-UP™
Flip-ups generally afford steep declination angles up to 55 degrees. Our design features a vertical slide that allows advanced flexibility to position the telescopes in front of the pupils. They are assembled to the customer’s PD at factory, but the horizontal PD bar allows the user to fine-tune convergence. The “universal flip” feature allows the customer to transfer the telescopes to a variety of different eyewear. If worn on ophthalmic eyewear, the customer’s prescription is updated every time they purchase a new pair of glasses.

MOUNTING OPTIONS
Flip-up

LOUPE OPTIONS
HDL™ 2.5 Macro

FRAME OPTIONS
Titan

COMPATIBLE WITH ...
Safety Glasses · Leaded Glasses (North America only)
Ophthalmic Glasses (your own eyewear!)

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Field Weight</th>
<th>Field Depth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.0” (10.40 cm)</td>
<td>5.0” (12.70 cm)</td>
<td>2.5 oz (70.9 g)</td>
</tr>
</tbody>
</table>
TEMPO™

MATERIAL  Stainless Steel · Aluminum

MOUNTING OPTIONS  Through-the-Lens

SIZES  Small · Medium · Large

Unlimited prescriptions

VICTORY™

MATERIAL  Titanium

MOUNTING OPTIONS  Through-the-Lens

SIZES  Small · Medium · Large

Unlimited prescriptions
**FRAMES**

**SPORT**

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**ERGOEDGE™**

**MATERIAL**  
Nylon-blend branded Grilamid

**MOUNTING OPTIONS**  
Through-the-Lens

**SIZES**  
Small - Medium

- Black
- Blue
- Carbon
- Merlot
- Purple
- Tortoise

Wide range of prescriptions, including bifocals

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**RYDON™**

**MATERIAL**  
Advance Carbon, Magnesium, Silicium, Grilamid, and Titanium

**MOUNTING OPTIONS**  
Through-the-Lens

**SIZES**  
One Size

- Black
- Blue
- Carbon
- Merlot
- Purple
- Tortoise

Wide range of prescriptions, including bifocals

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**FLAK 2.0®**

**MATERIAL**  
Oakley® O-Matter

**MOUNTING OPTIONS**  
Through-the-Lens

**SIZES**  
One Size

- Black

Wide range of prescriptions, including bifocals

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*Oakley® and Flak 2.0® are registered trademarks of Oakley, Inc. Used with permission.*
**HEADLIGHTS**

Orascoptic was granted a U.S. patent for the optical design used in each of its headlights. This means we offer our customers a highly uniform spot with the least amount of weight in comparison to other solutions on the market (see below). 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!

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.

Manufacturer A  Manufacturer B  Manufacturer C  Manufacturer D

Based on results of independent third-party testing.
**HEADLIGHTS**

**LOUPE & LIGHT**

**XVI™**

*Designed with a perfect synergy between magnification and illumination,* the XVI is the *first and only* wireless loupe and headlight in one. Employing our lightest weight headlight, this frame has no exterior cabling and draws its power from battery packs in the temple tips. The counterbalanced design enhances overall comfort.

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**SPECIFICATIONS**

Each XVI includes power supply, charger, 4 rechargeable batteries, carrying case, 2 optical screwdrivers, cleaning cloth, curing filter.

<table>
<thead>
<tr>
<th>Series</th>
<th>Weight</th>
<th>Light Intensity</th>
<th>Battery Life (4)</th>
<th>Charging Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>XVI</td>
<td>5.7 oz (161.7 g)</td>
<td>Low: 42 Lumens</td>
<td>10 hrs on low</td>
<td>Less than 2 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>High: 68 Lumens</td>
<td>6 hrs on high</td>
<td></td>
</tr>
</tbody>
</table>

*All Orascoptic telescope models can be mounted on the XVI frame.*
**HEADLIGHTS**

**CORDLESS**

**SPARK™**

The self-contained cordless headlight that integrates with virtually any loupe or eyewear frame style. Featuring an innovative, patent-pending design, the Spark dispenses weight evenly across the bridge of a frame giving you a more comfortable fit with minimal concentrated facial pressure.

- **Uniform Spot** — A precise focused light provides enhanced visibility during procedures.
- **Versatile Power Charger** — A micro USB charger offers added convenience for charging on the go.
- **Blue Light Compliant** — Maintains compliance with blue light testing standards for safety set by the International Electrotechnical Commission (IEC).
- **Advanced Capacitive Touch Controls** — Power light on and off with ease in between procedures and patient consultations.

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
<th>Each Spark package includes power supply, charger, 2 rechargeable batteries, carrying case, 2 optical screwdrivers, cleaning cloth, curing filter.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Series</strong></td>
<td><strong>Battery Type</strong></td>
</tr>
<tr>
<td>Spark</td>
<td>Lithium-ion</td>
</tr>
</tbody>
</table>
**ENDEAVOUR™**

*Our second generation of the Endeavour headlight,* this portable system provides a precise focused beam of light that distributes light evenly across the field of view. Convenient capacitive touch controls allow you to quickly adjust light settings without reaching into your jacket pocket.

- **Uniform Spot** — The homogeneous round spot distributes light evenly across the field of view.
- **Constant-Current Technology** — Brightness will not diminish during the run-time of the battery pack.
- **Advanced Capacitive Touch Controls** — Quickly adjust light settings without having to reach into a coat or pants pocket.
- **Multiple Light Levels** — Delivers 3 light intensity levels up to 68 lumens.
- **Detachable Cable** — Lasting durability from Kevlar*-like fibers
- **Battery Enclosure** — Durability from extruded aluminum

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**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Series</th>
<th>Light Intensity</th>
<th>Intensity Control</th>
<th>Headlight Weight</th>
<th>Battery Type</th>
<th>Battery Weight</th>
<th>Battery Life</th>
<th>Charging Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Endeavour</td>
<td>32/53/68 Lumens</td>
<td>Capacitive touch up to 68 Lumens</td>
<td>0.38 oz (10.8 g)</td>
<td>Lithium-ion</td>
<td>4.8 oz (138 g)</td>
<td>Up to 18 hours</td>
<td>Up to 3 hours</td>
</tr>
</tbody>
</table>
HEADLIGHTS

**ENDEAVOUR™ XL**

This patented headlight technology provides a precise beam of light that helps illuminate critical details that can often be overlooked by the naked eye. Utilizing constant-current technology, the headlight’s light output will not diminish during the run-time of the battery pack.

- **Increased Light Output** — Produces 25% brighter light output than the Orascoptic™ Endeavour™ headlight.
- ** Longer Run-Time** — Seize the day with up to 24 hours of battery life.
- **Advanced Capacitive Touch Controls** — Quickly adjust light settings without having to reach into a coat or pants pocket.
- **Multiple Light Levels** — Delivers a low, medium and high light intensity level up to 85 lumens.
- **Detachable Cable** — Lasting durability from Kevlar™-like fibers
- **Battery Enclosure** — Durability from extruded aluminum

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Series</th>
<th>Light Intensity</th>
<th>Intensity Control</th>
<th>Headlight Weight</th>
<th>Battery Type</th>
<th>Battery Weight</th>
<th>Battery Life</th>
<th>Charging Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Endeavour XL</td>
<td>53/68/85 Lumens</td>
<td>Capacitive touch up to 85 Lumens</td>
<td>0.38 oz (10.8 g)</td>
<td>Lithium-ion</td>
<td>7.3 oz (206 g)</td>
<td>Up to 24 hours</td>
<td>Up to 6 hours</td>
</tr>
</tbody>
</table>
LASER PROTECTION

EASE-IN-SHIELDS™
The ideal way to protect your eyesight during hard and soft tissue laser procedures and procedures performed with a curing light. A unique, lightweight design allows the user to easily slide the shield insert in and out of the frame between procedures.

These shields are compatible with most loupé and eyewear models, so the user is able to use the magnification they are accustomed to without having to purchase additional products or go through a frustrating installation process.

MOUNTING OPTIONS Insert

LOUPE OPTIONS All available Orascoptic loupes

FRAME OPTIONS ErgoEdge™ · Flak 2.0™  Rydon™ · Tempo™  Victory™ · XV1™

Also compatible with most other loupé brands & eyewear models

Hard Tissue Filter (Gray) Wavelengths
- 1800 – 1979 nm
- 1980 – 2550 nm
- 2251 – 3000 nm
- 10600 nm

Hard Tissue Filter (Green) Wavelengths
- 800 – 809 nm
- 810 – 899 nm
- 900 – 979 nm
- 980 – 1064 nm
- 1065 – 1080 nm

Soft Tissue Filter (Green) Wavelengths
- 430 – 480 nm

Curing Filter (Yellow) Wavelengths
- 9000 – 11000 nm

CO2-Solea Filter (Gray-Blue) Wavelengths
- 9000 – 11000 nm
SAFETY PRODUCTS

LEADED GLASSES
Leaded protection is recommended for any procedure where radiation is present.

MATERIAL  Grilamid
SIZES  One Size

SAFETY GLASSES
These support all prescription and non-prescription lens and also offer headlight compatibility.

MATERIAL  Plastic
SIZES  One Size

Black  Red  Silver

Black
LAB-TESTED  
RESOLUTION + BRIGHTNESS = CLARITY

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.

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

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.
NOTE: Simulated comparison of third-party lab tests conducted 2018