











Product Catalog

Orascoptic.com

INTRODUCTION



At Orascoptic, we know eyes.

Masters of our craft, we unlock your most important clinical instrument and in turn, empower you to perform at your best.

Because an assembly-line approach to vision just doesn't cut it, we custom design and craft our products to be an extension of you.

Together we can enable you to see the unseen.

To practice more ergonomically. To excel at your craft.

As an industry leader, Orascoptic is constantly pushing the limits to provide clinicians with the latest products that achieve superior visualization through enhanced ergonomics, improved magnification and illumination.





WATCH NOW! Learn more about custom manufacturing

WHAT'S INSIDE:

4 TESTIMONIALS 6 INNOVATION 8 LOUPES 16 FRAMES 22 TRUCOLOR™ 24 HEADLIGHTS

28 SAFETY PRODUCTS

30 LAB TEST RESULTS

DETAIL AT A DISTANCE

What has always been true about loupes, but is more relevant now than ever before? LOUPES ENABLE increased working distances from patient. LOUPES UNLOCK a larger image for enhanced clinical detail.







My Orascoptic loupes have drastically improved my ability to see detail at a distance so I can continue to provide exceptional care for my patients."

— Dr. Melanie Silvestrini

With the help of my Orascoptic loupes and Spark[™] headlight system I'm able to work at an extended distance without compromising my ergonomics or patient care."

— Molly Blackburn, RDH



Orascoptic loupes are lightweight and have a wireless headlight option. It helps me keep my distance especially during COVID-19, whilst being able to see every detail. I cannot imagine working without them."

— Dr. Kapilisha Natkunam



HEAR FROM YOUR PEERS

Practice more ergonomically. The use of magnification systems has been associated with decreased neck and lower back pain, as they allow clinicians to maintain a healthier posture. Elongated bezels provide steeper declination angles allowing for a reduction in physical strain. Sitting in a more ergonomically correct position throughout the workday can promote a long and healthy career.



For 7 out of 9 years of being a practicing dentist I have used my Orascoptic loupes and light! Awesome clarity and supports ergonomic neck and back posture. I have not once had any neck or back pain since using these loupes!"

- Dr. Monica S. Wheeler, DDS



My Orascoptic loupes have been instrumental in my surgical training by providing excellent magnification and optimal visualization. **These lightweight frames are my favorite and the best for ergonomics.**"

— Amanda Marsh, MD-General Surgery Resident



I've been using my Orascoptic loupes and light since residency. They help maintain proper posture and **save my neck and back after hours of surgery.**"

— Viraj J. Mehta, MD, MBA



When you make your investment in loupes, **do it right the first time by choosing Orascoptic**. You'll view details at a higher level of accuracy and precision while keeping your spine straight at the same time."

— Dr. Varun Chintakunta, DMD

My Orascoptic loupes are the saviors of my back.

The magnification and illumination allow me to practice accurate ergonomics while practicing dentistry."

— Erin Howard, Dental Student

A PASSION FOR INNOVATION

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.

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™

High-color rendering index (CRI) illumination across our range of LED headlights.

TEMPO™ REFINED FIT

Designed to provide optimal comfort for anyone with a lower nose bridge and prominent cheekbones.









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.

MOUNTING OPTIONS

Through-the-Lens

FRAME OPTIONS

ErgoEdge™ • Flak 2.0® • Rydon™ • Tempo™ Victory™ • XV1™ • Tempo™ Refined Fit

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™ • Tempo™ Refined Fit





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

Series	Power	Working Distance	Field Width Field Depth		Weight*	
HDL Micro	2.5x	Customized to each user	3.4" (8.75 cm)	7.0" (17.80 cm)	TTL 1.36 oz (38.60 g)	
HDL Macro	2.5x	Customized to each user	4.0" (10.40 cm)	5.0" (12.70 cm)	TTL 1.80 oz (50.70 g)	

* measured on Orascoptic Victory Frame, see pg 17



HDL[™] 3.0

Comparable to its predecessor — the HDL[™] 2.5 — this customcrafted 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™ • Tempo™ Refined Fit ORASCOPTIC

SPECIFICATIONS Each loupe package includes side shields, head strap, personalized storage case, prescriptic	n lens, optical screw driver and cleaning cloth.
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Series	Power	Working Distance	Field Width Field Depth		Weight*	
HDL	3.0x Customized to each user		3.1" (7.90 cm)	7.5" (19.0 cm)	TTL 1.70 oz (48.70 g)	

* measured on Orascoptic Victory Frame, see pg 17

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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

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HDL 4.5

HDI 5.5

HDL 3.5

FRAME OPTIONS

ErgoEdge™ • Rydon™ • Tempo™ • Victory™ XV1™ • Tempo™ Refined Fit

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

Series	Power	Working Distance	Field Width	Field Depth	Weight*
HDL	3.5x	Customized to each user	3.5" (8.90 cm)	3.6" (9.10 cm)	TTL 2.4 oz (67.5 g)
	4.5x	Customized to each user	2.95" (7.50 cm)	2.64" (6.70 cm)	TTL 2.5 oz (71.5 g)
	5.5x	Customized to each user	2.51" (6.40 cm)	2.32" (5.90 cm)	TTL 2.6 oz (74.4 g)

* measured on Orascoptic Victory Frame, see pg 17

LOUPES 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.

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™ • XV1™ • Tempo™ Refined Fit

SPECIFICATIONS Each loupe pa

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

Series	Power	Working Distance	Weight*
	2.5x	Customized to each user	2.02 oz (57.3 g)
OmniOntia	3.5x	Customized to each user	2.66 oz (75.3 g)
OmniOptic	4.5x	Customized to each user	2.79 oz (79.1 g)
	5.5x	Customized to each user	2.90 oz (82.1 g)

* measured on Orascoptic Victory Frame, see pg 17

LOUPES VARIABLE MAGNIFICATION

EYEZOOM[™]

Your day is variable. Your loupes should be too. The first ever 3-in-1 magnification loupe EyeZoom[™] features magnification levels ranging from 3x-5x. Orascoptic's EyeZoom offers 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.



MOUNTING OPTIONS Through-the-Lens

FRAME OPTIONS

ErgoEdge™ • Rydon™ • Tempo™ • Victory™ • XV1™ • Tempo™ Refined Fit

EYEZOOM ADJUSTABLE MAGNIFICATION

EyeZoom employs 3-step variable magnification





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

Series	Power	Working Distance	Field Width	Field Depth	Weight*
	3.0x	Customized to each user	4.0" (10.20 cm)	4.0" (10.20 cm)	
EyeZoom	4.0x	Customized to each user	3.25" (8.30 cm)	3.25" (8.30 cm)	TTL 3.0 oz (86.2 g)
	5.0x	Customized to each user	2.50" (6.35 cm)	2.50" (6.35 cm)	

* EyeZoom measured on Orascoptic Victory Frame, see pg 17



LOUPES VARIABLE MAGNIFICATION

EYEZOOM MINI™

The EyeZoom Mini features a two-step variable magnification technology that allows the user to switch between 2.5x and 3.5x. Bringing the operating site closer and into focus, the loupe helps improve one's speed and efficiency in the operatory.

Patent-pending technology provides edge-to-edge clarity and high-definition resolution. A consistent working distance at each magnification level also helps reduce the need to reposition when alternating between magnification levels.



MOUNTING OPTIONS

Through-the-Lens

FRAME OPTIONS

ErgoEdge™ • Rydon™ • Tempo™ • Victory™ • XV1™ • Tempo™ Refined Fit

EYEZOOM MINI ADJUSTABLE MAGNIFICATION

EyeZoom Mini employs 2-step variable magnification





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

Series	Power	Working Distance	Field Width	Field Depth	Weight*
EyeZoom Mini	2.5x	Customized to each user	3.97" (10.10 cm)	4.76" (12.10 cm)	TTL 2.6 oz (73.7 g)
	3.5x	Customized to each user	3.19" (8.10 cm)	3.78" (9.60 cm)	11L 2.0 02 (73.7 g)

* EyeZoom Mini measured on Orascoptic Victory Frame, see pg 17



HYGIENE LOUPES

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 backsplash.

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.

Series Power Working Distance		Field Width	Field Depth	Weight*	
RDH EliteEdge	2.5x	Customized to each user	4.0" (10.20 cm)	6.0" (15.20 cm)	TTL 1.5 oz (43.3 g)

* measured on Orascoptic RDH EliteEdge Frame, see pg 14

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.



FRAME EDUCATION

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.



FRAMES ICONIC



FRAMES

Say goodbye to uncomfortable loupes that slide down your nose or rest on your cheeks. Orascoptic is proud to present **Tempo™ Refined Fit,** a loupes frame engineered to provide optimal comfort for clinicians with prominent cheekbones and a lower nose bridge. Because loupes should fit comfortably on everyone.

TEMPO™ REFINED FIT



The optimal angle of pantoscopic tilt ensures the frame rests above the cheekbones.

MATERIAL Stainless Steel • Aluminum

MOUNTING OPTIONS Through-the-Lens

SIZES Small · Medium · Large



Slate

The **ideal** frame height to prevent misalignment of optics caused by frames resting on the

cheekbones.

A **unique nose pad wire** allows a comfortable and secure fit on a less pronounced nose bridge.

FRAMES SPORT



MATERIAL Nylon-blend branded Grilamid

MOUNTING OPTIONS Through-the-Lens

SIZES Small · Medium



RYDON™



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

MOUNTING OPTIONS Through-the-Lens

SIZES One Size







FLAK 2.0®



MATERIAL Oakley® 0-Matter

MOUNTING OPTIONS Through-the-Lens

SIZES One Size



Black Wide range of prescriptions, including bifocals

ABOUT ILLUMINATION

Orascoptic loupe-mounted LED headlights allow for proper illumination. *Here's what you should 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.

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.



Orascoptic was granted a U.S. patent for the optical design used in each of its headlights. With Orascopticexclusive 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! **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 by comparing the spot quality in Orascoptic's lights against those of its competitors.





ORASCOPTIC

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 C

Based on results of independent third-party testing.

TRUCOLORTM BREAKTHROUGH LOUPE ILLUMINATION TECHNOLOGY

TruColor™ is Orascoptic's breakthrough technology — high-color rendering index (CRI) light. TruColor enables each Orascoptic 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.



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*

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TRUCOLOR[™]



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 across our entire line...



RASCO

USI



HEADLIGHTS LOUPE & LIGHT

XV1[™]

Designed with a perfect synergy between magnification and illumination, the XV1 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.

















Series	Weight	Light Intensity	Battery Life (4)	Charging Time
XV1	5.7 oz (161.7 g)	Low: 42 Lumens	10 hrs on low	Less than 2 hours

6 hrs on high

All Orascoptic telescope models can be mounted on the XV1 frame.



High: 68 Lumens

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.

SPECIFICATIONS	Each Spark package includes power supply, charger, 2 rechargeable batteries, carrying case, 2 optical screwdrivers, cleaning cloth, curing	n filter
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BODGE

APPROVI

Series	Battery Type	Weight	Light Intensity	Battery Life (2)	Charging Time
Spark	Lithium-ion	1.12 oz (31.8 g)	32 Lumens	6 hours	3 hours



HEADLIGHTS

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 vour 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



SPECIFICATIONS								
Series	Light Intensity	Intensity Control	Headlight Weight	Battery Type	Battery Weight	Battery Life	Charging Time	
Endeavour	32/53/68 Lumens	Capacitive touch up to 68 Lumens	0.38 oz (10.8 g)	Lithium-ion	4.8 oz (138 g)	Up to 18 hours	Up to 3 hours	

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



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Series	Light Intensity	Intensity Control	Headlight Weight	Battery Type	Battery Weight	Battery Life	Charging Time
Endeavour XL	53/68/85 Lumens	Capacitive touch up to 85 Lumens	0.38 oz (10.8 g)	Lithium-ion	7.3 oz (206 g)	Up to 24 hours	Up to 6 hours



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 loupe 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 EraoEdae™ • Flak 2.0™ Rvdon™ Tempo[™] • Victory[™] • XV1[™] Tempo[™] Refined Fit



Also compatible with most other loupe brands & eyewear models



800 – 809 nm

810 – 899 nm

900 – 979 nm

980 - 1064 nm

1065 - 1080 nm

(Green) Wavelengths

(Yellow) Wavelengths

430 – 480 nm

Wavelengths

9000 - 11000 nm

(Gray-Blue)



10600 nm

(Gray) Wavelengths

1800 – 1979 nm

1980 - 2550 nm

2251 - 3000 nm

SAFETY PRODUCTS

LEADED GLASSES

Leaded protection is recommended for any procedure where

radiation is present.



SAFETY GLASSES

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



MATERIAL Grilamid

SIZES One Size



MATERIAL Plastic

.....

SIZES One Size



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



Percentage of Light Passing Through the Optics 91.0% 79.8% 74.5%

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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.



As an industry leader, Orascoptic is constantly pushing the limits to provide

the latest products that achieve superior visualization through enhanced ergonomics, improved magnification and illumination for any profession where precision is a necessity.

ORASCOPTIC Jessica Parks





EYE ZOOM Jim Tauschek







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