



# Product Catalog

**SURGEONS DENTISTS HYGIENISTS**

[orascopic.com](http://orascopic.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, Orasoptic 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 Orasoptic 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 Orasoptic 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.

See results from recent  
**LAB TESTS!**  
See page 22

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# 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™ · XVI™



## 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™ · XVI™



### 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 Orasoptic 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™ · XVI™



**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	3.0x	Customized to each user	3.1" (7.90 cm)	7.5" (19.0 cm)	TTL 1.70 oz (48.70 g)

*\*measured on Orasoptic 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™ · XVI™



**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 Orascope Victory Frame, see pg 13





# 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™ • XVI™



### SPECIFICATIONS

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

Series	Power	Working Distance	Weight*
OmniOptic	2.5x	Customized to each user	2.02 oz (57.3 g)
	3.5x	Customized to each user	2.66 oz (75.3 g)
	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 Orasoptic Victory Frame, see pg 13



# OPTICS ADJUSTABLE MAGNIFICATION

## EYEZOOM™ & EYEZOOM™ MINI

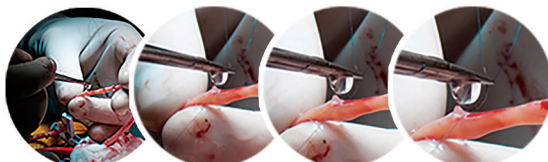
**Offering two adjustable magnification solutions,** EyeZoom™ features three magnification levels ranging from 3x-5x, while EyeZoom Mini™ features two magnification levels allowing the user to switch between 2.5x and 3.5x. Orasoptic's EyeZoom and EyeZoom Mini offer clinicians the ability to switch between 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



No  
magnification

3x

4x

5x



### EYEZOOM MINI ADJUSTABLE MAGNIFICATION

EyeZoom Mini employs 2-step variable magnification



No  
magnification

2.5x

3.5x

### QUALITY ENGINEERING

Optics co-engineered by  
Orasoptic™ & 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.

### MOUNTING OPTIONS

Through-the-Lens

### FRAME OPTIONS

ErgoEdge™ · Rydon™ · Tempo™ · Victory™ · XV1™



### 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	3.0x	Customized to each user	4.0" (10.20 cm)	4.0" (10.20 cm)	TTL 3.4 oz (97.6 g)
	4.0x	Customized to each user	3.25" (8.30 cm)	3.25" (8.30 cm)	
	5.0x	Customized to each user	2.50" (6.35 cm)	2.50" (6.35 cm)	
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)	

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



# HYGIENE LOUPES

## RDH ELITE™

**Orasoptic'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.

Series	Power	Working Distance	Field Width	Field Depth	Weight*
RDH Elite	2.5x	Customized to each user	4.0" (10.20 cm)	6.0" (15.20 cm)	TTL 1.9 oz (58.4 g)

\* measured on Orasoptic 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 backsplash.

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



RDH EliteEdge frame



RDH EliteEdge frame

**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 Orasoptic 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

Field Weight	Field Depth	Weight
4.0" (10.40 cm)	5.0" (12.70 cm)	2.5 oz (70.9 g)





# FRAMES ICONIC

## TEMPO™



**MATERIAL** Stainless Steel · Aluminum

**MOUNTING OPTIONS** Through-the-Lens

**SIZES** Small · Medium · Large



Black

Blue

Merlot

Slate

Twist

Unlimited prescriptions

## VICTORY™



**MATERIAL** Titanium

**MOUNTING OPTIONS** Through-the-Lens

**SIZES** Small · Medium · Large



Black

Blue

Merlot

Slate

Unlimited prescriptions



# FRAMES SPORT

## 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

## RYDON™



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

**MOUNTING OPTIONS** Through-the-Lens

**SIZES** One Size



Black

Blue

Carbon



Merlot

Platinum

Tortoise

Wide range of prescriptions, including bifocals

## FLAK 2.0®



**MATERIAL** Oakley® O-Matter

**MOUNTING OPTIONS** Through-the-Lens

**SIZES** One Size



Black

Wide range of prescriptions, including bifocals

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

# HEADLIGHTS

**Orasoptic was granted a U.S. patent for the optical design used in each of its headlamps.** 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 Orasoptic-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!

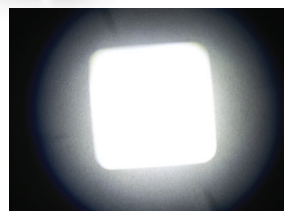


**ORASOPTIC**



## Each Orasoptic headlight model is tested

to ensure compliance with blue light testing standards set by the International Electrotechnical Commission. To learn more, visit [orasoptic.com/products/headlights](https://orasoptic.com/products/headlights).



*Manufacturer A*



*Manufacturer B*



*Manufacturer C*



*Manufacturer D*

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





# 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.



Black



Blue



Merlot



Steel



White



**SPECIFICATIONS** Each XV1 includes power supply, charger, 4 rechargeable batteries, carrying case, 2 optical screwdrivers, cleaning cloth, curing filter.

Series	Weight	Light Intensity	Battery Life (4)	Charging Time
XV1	5.7 oz (161.7 g)	Low: 42 Lumens High: 68 Lumens	10 hrs on low 6 hrs on high	Less than 2 hours

*All Orasoptic telescope models can be mounted on the XV1 frame.*



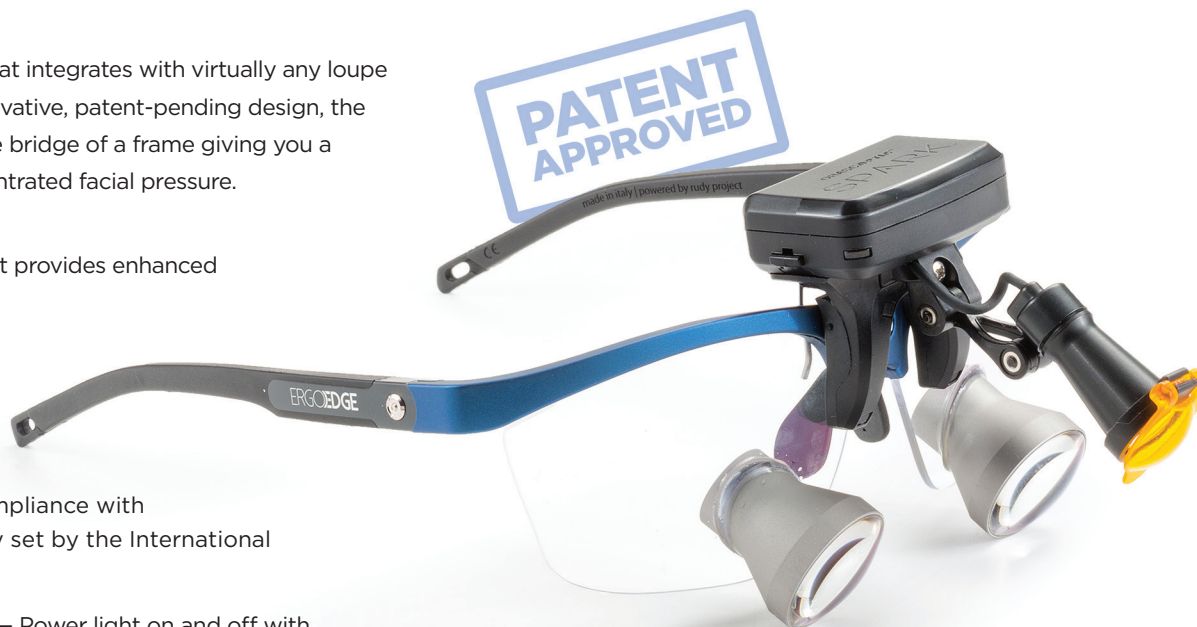
# HEADLIGHTS

## 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.



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

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



## 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 Orasoptic™ 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

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

# FRAMES BUILT FOR LOUPES

**Specializing in the design and manufacturing** of surgical loupes, dental loupes, and hygiene loupes for over 35 years, we have made it our mission to provide superior visualization to clinicians across the globe.

*Key features of our award-winning, innovative loupes are highlighted below.*



# 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.

[orascopic.com/loupe-builder](https://orascopic.com/loupe-builder)





# LAB-TESTED RESOLUTION + BRIGHTNESS = CLARITY

**The difference is striking.** In a series of third-party lab tests, Orasoptic'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, Orasoptic 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, Orasoptic's loupes measured:

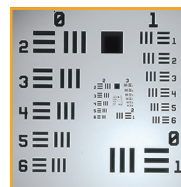
- **40% better** than *Manufacturer A*
- **14% better** than *Manufacturer B*
- **20% better** than *Manufacturer C*

To learn more about the tests, visit [orasoptic.com](http://orasoptic.com).

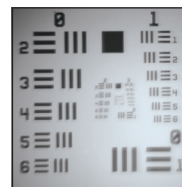
► **THE RESOLUTION TEST** Scores were determined by viewing the industry-standard USAF resolution target (below) through each telescope and performing the relevant calculations.

For the resolution test, Orasoptic's loupes measured:

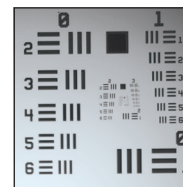
**125% better than A** | **12% better than B** | **26% better than C**



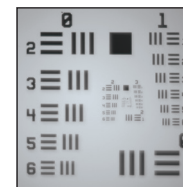
**ORASOPTIC**  
(22.63 LP/mm)



*Manufacturer A*  
(10.03 LP/mm)

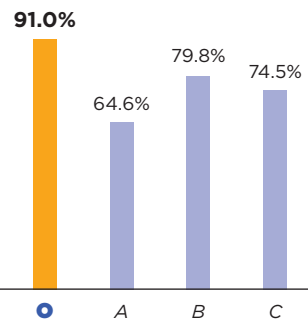


*Manufacturer B*  
(20.16 LP/mm)



*Manufacturer C*  
(17.96 LP/mm)

**Percentage of Light**  
Passing Through the Optics

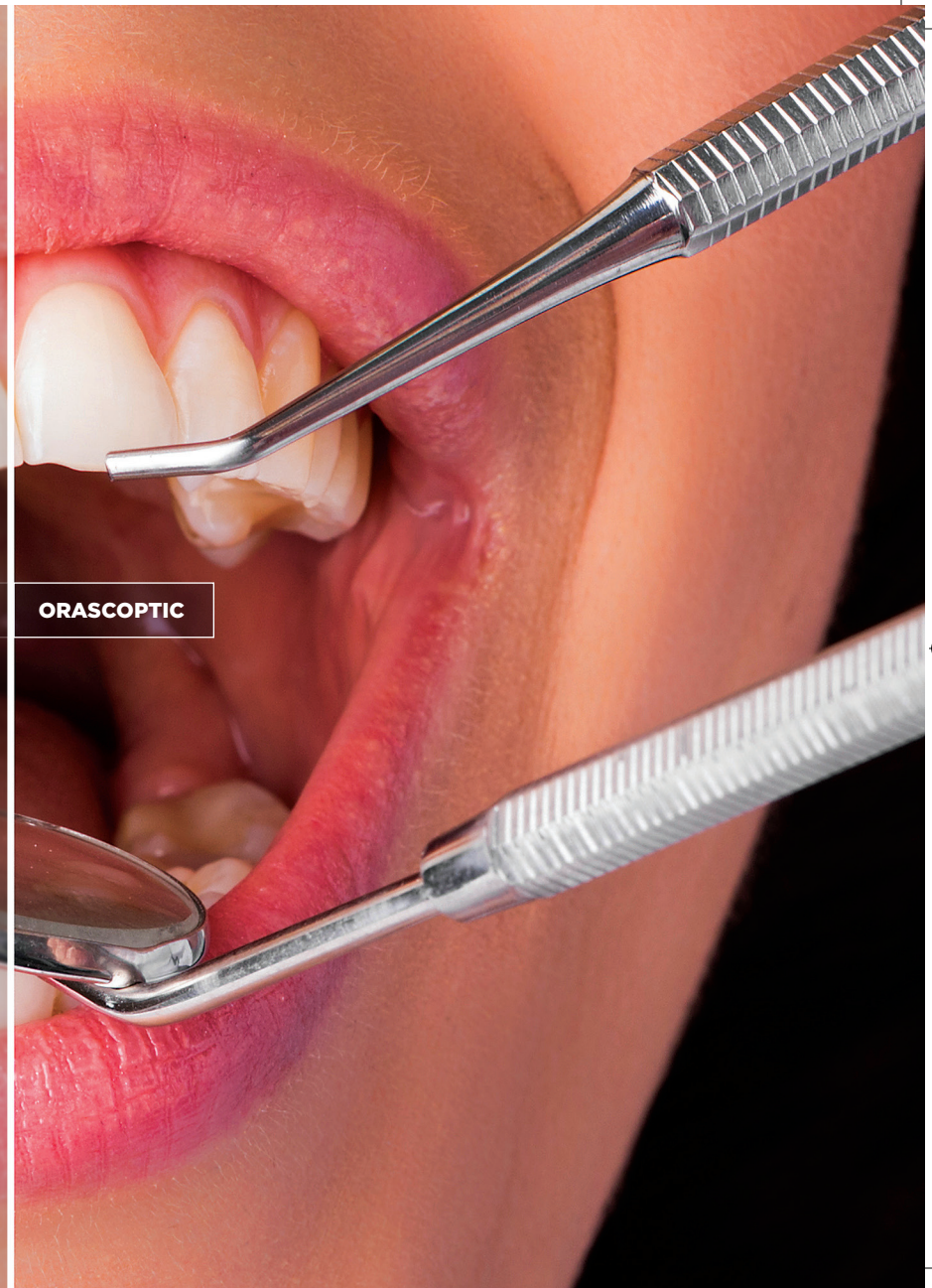


## Did You Know?

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



Manufacturer A



**ORASCOPTIC**

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



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