



ultra Q reflex™

Focal accuracy, efficient energy delivery for anterior and posterior YAG treatments

POSTERIOR MEMBRANECTOMY

CAPSULOTOMY

IRIDOTOMY

Helping the world see clearly

Widen your treatment horizons

If you're seeking to broaden the range of treatment solutions you can offer using leading-edge YAG laser technology that's proven to the highest level of performance, Ultra Q Reflex™ from Ellex is the option that's right for you.

Ultra Q Reflex™ is the platform that enables you to perform the full range of anterior and posterior YAG laser procedures, including posterior membranectomy, capsulotomy and iridotomy procedures to the highest standards of safety, accuracy and efficacy.

Three treatment modalities

Choose Ultra Q Reflex™, and you can select from three treatment modalities, which comprise:

POSTERIOR MEMBRANECTOMY

CAPSULOTOMY

IRIDOTOMY



ultraQ
reflex

Offset μm



Posterior



Anterior



Z

25x

100 A

0

100 P

200 P

60 30 0 30 60 H

← ○ → ⊕

← ○ → ⊕

← ○ → ⊕

Ultra Q Reflex™ — proven technology, optimal results

Floater & Opacities best ever visualization

Ultra Q Reflex™ features Ellex's proprietary Reflex Technology™. It's technology that optimizes visualization in both on-axis and off-axis modes through True Coaxial Illumination. It also encompasses titratable illumination, which means that you're able to accurately visualize vitreous strands and opacities across a number of illumination settings, and to assess their position relative to the lens or retina.

YAG low energy, high efficiency

Ultra Q Reflex's YAG mode features an Ultra Gaussian beam profile and fast rise time. That means you can perform capsulotomies and iridotomies at lower, more efficient energy levels*. With less energy delivered into the eye, you'll be able to carry out capsulotomies with all types of IOLs and with significantly less risk of lens pitting.



An optimized optical system, which includes True Coaxial Illumination – TCI™ – for on- and off-axis viewing, a precise aiming beam, and a superior energy beam profile – all within a unique slit lamp illumination tower design that converges and focuses your sight line, target illumination and treatment beam into one optical path.



The Reflex™ illumination mirror ensures that the laser beam is never obstructed – minimizing the risk of under- or over-dosing the energy, ensuring that the desired therapeutic effect is achieved.

Accurate, effective capsulotomy

Choose Ultra Q Reflex™ and you'll secure new levels of accuracy in capsulotomy — a perfectly centered, precise capsulotomy.

It's accuracy that minimizes fringes and tags and prevents lens damage — even if the lack of a ridge makes the capsule adhere to the optic.

Precision in incision

Ellex's unique laser cavity delivers a four nanosecond Ultra Gaussian pulse at high peak energy and can typically achieve the industry's lowest energy optical breakdown*. This allows the energy to form a tight plasma ball, and results in less energy dispersion into surrounding tissue. This makes possible a tissue incision technique that deploys a smaller shockwave, which delivers superior treatment precision and maximizes procedure efficacy.

IOL-friendly photodisruption

Featuring an Ultra Gaussian beam profile, Ultra Q Reflex™ focuses more energy into the center of the beam profile to deliver greater energy density — reducing the energy needed to effectively perform capsulotomy and consequently greatly reducing the risk of lens pitting.

Prevent post-capsulotomy floaters

The benefits of Ellex's proprietary Reflex Technology™ extend beyond the safe treatment of floaters. Employing TCI™ to identify capsular fragments, Ultra Q Reflex™ can be used to vaporize broken pieces of the fragment and help prevent the common problem of sudden floater development after capsulotomy.



Capsulotomy, Ellex – Step 1: multifocal lens



Capsulotomy, Ellex – Step 2: multifocal lens

Laser Source	Q-switched Nd:YAG
Wavelength	1064 nm
Energy	0.3 to 10 mJ per pulse, continuously variable
Pulse Duration	4 ns
Burst Mode	1, 2 and 3 pulses per burst, selectable
Spot Size	8 μm
Offset (Anterior and Posterior)	0, ± 100 to ± 500 μm , continuously variable
Illumination	True Coaxial Illumination™ (Reflex Technology™)
Cone Angle	16 degrees
Aiming Beam	red 635 nm or green 515 nm, adjustable intensity

Repetition Rate	up to 3 Hertz
Magnification	optimized for enhanced anterior segment visualization
Cooling	Fan-cooled
Electrical Requirements	100–240 VAC, 50/60 Hz, 800 VA
Weight	30 kg, 66 lbs (laser only)
Dimensions (HxWxD)	57 x 75 x 45 cm, 23 x 30 x 18 inches (laser only)
Standard Accessories	Total Solution™ tables, remote display, safety glasses, laser safety sign, dust cover
Optional Accessories	Footswitch, five-position magnification changer, beam splitter, co-observation tube, “C” mount camera adapter, video camera adapter, tonometer mount, capsulotomy, iridotomy and vitreolysis laser lenses

Specifications are subject to change without notice



ultra Q reflex™



Find out how Ultra Q Reflex™ will help you set new standards in posterior membranectomy, capsulotomy and iridotomy.

Contact us now to schedule a demonstration

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Helping the world see clearly

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Ellex is the manufacturer of Reflex Technology. It has been approved for the indication of Posterior Membranectomy whereby it offers the potential to improve the patient's perception of visual functionality. Ellex does not accept any responsibility for use of the system outside of these indications.

Ultra Q Reflex™ has a CE Mark (Conformité Européenne) and US Food and Drug Administration (FDA) 510(k) Market clearance for the indications of Posterior Membranectomy Capsulotomy and Laser Iridotomy.

