

Optimized for anterior and posterior YAG laser treatments.

Whether you are performing anterior or posterior capsulotomy with new generation IOLs, peripheral iridotomy for glaucoma or YAG laser vitreolysis for the treatment of vitreous strands and opacities, Ultra Q™ with Reflex Technology™ delivers higher accuracy and greater control.



One Powerful Vision

Accessories and Options

Total Solution™ Tables (standard accessory)

Ellex Total Solution™ tables are designed to meet the needs of any environment. With the added benefit of comfort, flexibility and an optimized patient-surgeon interface, the Total Solution™ range of tables meets the alignment needs of even your most challenging patients.

- Wheelchair accessible, mobile
- Wheelchair accessible
- Mobile



Indications for Use

Cataract	Capsulotomy
Glaucoma	Laser Iridotomy
Vitreous	Posterior Membranectomy (incl. Nd:YAG Laser Vitreolysis)

Diagnose and Treat with the Best

Ellex is dedicated to advancing the role of ophthalmic technology through a line of premium laser and diagnostic ultrasound systems. With more than 20,000 systems installed worldwide, Ellex is known for its superior quality and commitment to customer care.

Product Specifications

Laser Source	Q-switched Nd: YAG
Wavelength	1064 nm
Energy	0.3 to 10 mJ, single pulse continuously variable
Pulse Width	4 ns
Burst Mode	1, 2 and 3 pulses per burst, selectable
Spot Size	8 µm
Offset (Anterior and Posterior)	0 to ± 500 µm, continuously variable
Illumination	Coaxial (Ellex Reflex Technology)
Cone Angle	16 degrees
Repetition Rate	up to 3 Hertz
Aiming Beam	red 635 nm, adjustable intensity
Magnification	10x, 16x, 28x
Cooling	air cooled
Electrical Requirements	100-240 VAC, 50/60 Hz, 500 VA
Weight	30kg, 66 lbs. (laser only)
Dimensions (HxWxD)	57 x 75 x 44 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, 35 mm camera adapter, video camera adapter, tonometer mount, capsulotomy, iridotomy and vitreolysis laser lenses

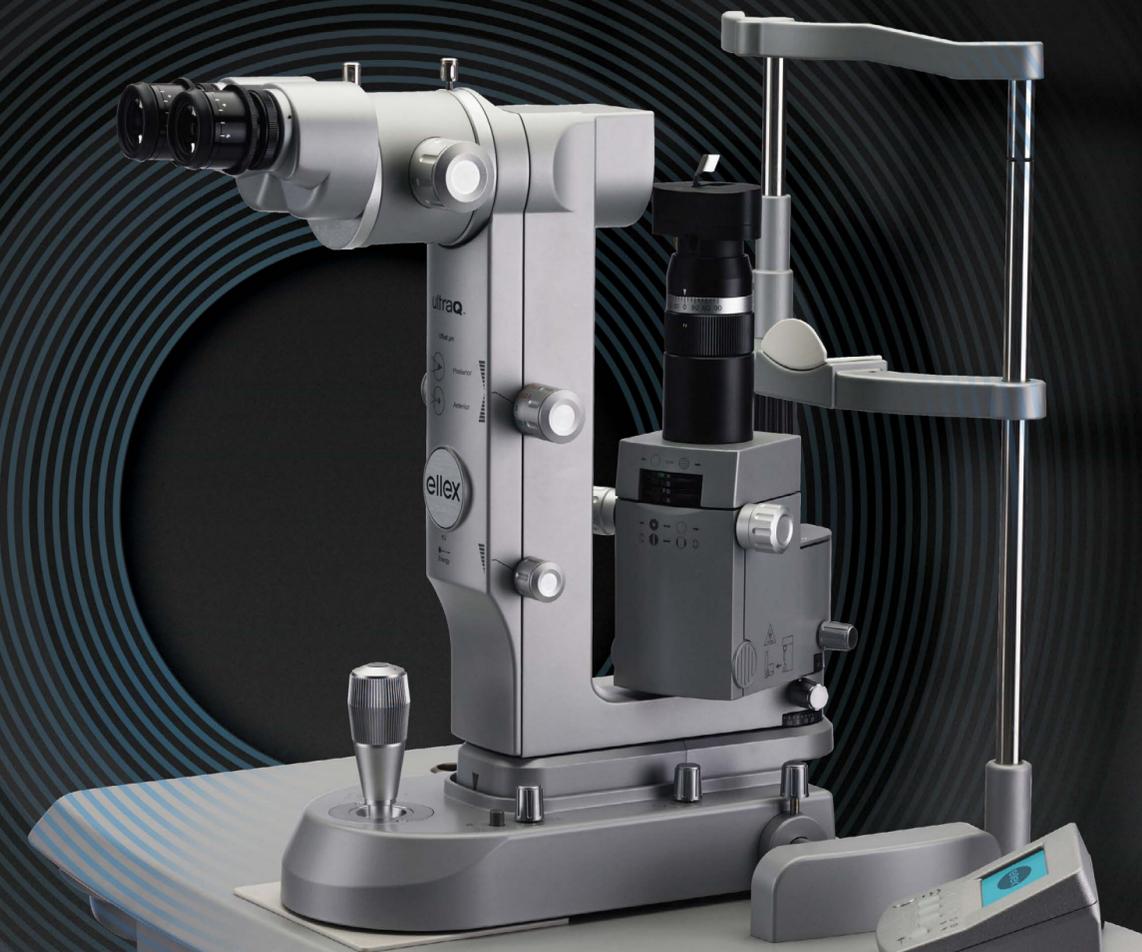
Specifications are subject to change without notice.

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ultraQ™ multi-modality YAG laser

reflex
technology™



Ultra Q™ with Reflex Technology™ achieves optical breakdown at the industry's lowest energy levels – allowing you to perform YAG laser treatments in both the anterior and posterior segments with a reduced risk of side effects.



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reflex
technology™

Reflex Technology™ comprises Ellex's proprietary slit lamp illumination tower design, which converges the operator's vision, the target illumination and the treatment beam onto the same optical path, and focuses them onto the same optical plane - offering optimized visualization and illumination of the vitreous. This is of particular importance when aiming at vitreous strands or opacities, as it greatly minimizes the potential for focusing errors, and the risk of damage to the natural lens or the retina.

The unique illumination mirror design, which briefly moves out of the laser pathway during firing, ensures that the laser beam is never obstructed. This minimizes the risk of under-dosing or over-dosing the energy, ensuring that the desired therapeutic effect is achieved.

In addition, the precision of a two-point aiming system and the wide offset range ensure accurate positioning of the optical breakdown, thus preserving surrounding tissue from accidental damage.

1 Optimized Optics for Better Viewing

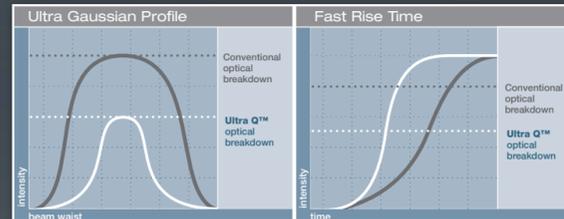
The quality and design of Ultra Q's slit lamp optics are optimized for both anterior and posterior YAG laser procedures.

Anterior Segment Viewing: Featuring Galilean converging optics with a 16° stereoscopic angle, Ultra Q™ with Reflex Technology™ provides a more natural stereoscopic view combined with a small depth of field for precision focusing on structures in the anterior segment.

Posterior Segment Viewing: the illumination tower, which can be used in a coaxial position, provides better depth perception in the posterior segment for precision focusing on structures in the vitreous cavity.

2 Efficient Energy Delivery for Safer Treatment

An Ultra Gaussian beam profile and fast rise time enable you to cut tissue more efficiently, using fewer shots and less cumulative energy - and with a reduced risk of side effects such as retinal thickening or collateral damage to surrounding structures.



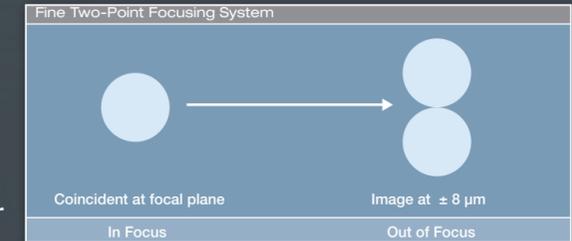
3 Better Performance Over the Long-Term

The solid-state Q-switch, which is made from the industry's finest components, is life-tested to deliver over 400,000 shots without any significant reduction in energy performance or beam quality.



4 Pinpoint Precision

With a tolerance range of $\pm 8 \mu\text{m}$, Ultra Q's fine, two-point focusing system makes it easy for you to accurately position where the optical breakdown will take place, irrespective of whether you are working in the anterior or the posterior segment.



5 IOL-Friendly Photodisruption

The newest generation IOLs, which are often implanted in younger patients and those with low tolerance for visual error, may be more susceptible to pitting - posing many challenges for anterior and posterior capsulotomy procedures. Featuring state-of-the-art YAG laser technology, Ultra Q™ with Reflex Technology™ is ideal for use with these IOLs. Consistently achieving optical breakdown at ultra-low energy levels, it allows you to cut tissue much more efficiently with fewer shots and with less cumulative energy, thus reducing the risk of inadvertently marking the IOL.

6 Accurately Position Optical Breakdown

A continuously variable anterior and posterior offset control adjustment (from 0 to ± 500 microns in both directions) provides optimum flexibility for all procedures.

7 Designed to Maximize Your Workflow

Ellex has integrated the laser and slit lamp for greater efficiency and reliability, as well as for improved ease of use. The compact, efficient design of Ultra Q™ provides you with additional working space and convenient, simultaneous access to the patient and laser controls. The user-friendly, back-lit remote display allows you to adjust treatment parameters in a dimly lit treatment room.

8 Faster Treatment

With the industry's fastest firing rate of up to 3 shots per second (3 Hz), Ultra Q™ with Reflex Technology™ allows you to perform treatments quickly and efficiently.