



tangoreflex™

Tango Reflex™ combines multiple treatment platforms - SLT for glaucoma, laser vitreolysis for floaters, and capsulotomy and iridotomy treatments - in a single laser system.





**One Advanced Laser.
Four Treatment Modalities.**

Combining Ellex's proprietary Reflex Technology™ for posterior and anterior YAG laser procedures with the industry's leading SLT technology, the Tango Reflex™ is a breakthrough in laser technology that enables you to expand your quality and scope of patient care.

THE INDUSTRY'S MOST ADVANCED LASER

Combining Ellex's proprietary Reflex Technology™ with the industry's leading SLT technology, the new Tango Reflex™ is a breakthrough in laser technology that enables you to perform the full range of anterior and posterior YAG laser procedures, as well as SLT. Designed for greater efficiency, Tango Reflex™ allows you to instantly switch between treatment modes at the touch of a button, while an intuitive touchscreen interface permits easy, quick adjustment of all treatment parameters.

REFLEX TECHNOLOGY

Innovations such as titratable axis illumination and coaxial visualization enable Laser Floater Removal (LFR) to be performed with greater safety and efficacy.

POSTERIOR SEGMENT VIEWING

A patented illumination tower design, which can be used in a coaxial position, provides better depth perception when focusing on vitreous floaters.

ANTERIOR SEGMENT VIEWING

Galilean converging optics with a 16° stereoscopic angle provide a more natural stereoscopic view combined with a small depth of field.

DUAL-COLOR AIMING BEAM

In YAG mode, a green aiming beam provides greater contrast and thus improved visibility - especially when working in the vitreous. In SLT mode, a red aiming beam improves safety of focusing.

FASTER TREATMENT

The industry's fastest repetition rate at 3 shots per second.

IOL-FRIENDLY PHOTODISRUPTION

In YAG mode, the industry's lowest optical breakdown at approx. 1.8 mJ (in air) reduces the risk of lens pitting, with fewer shots and less cumulative energy.

ACCURATELY POSITION OPTICAL BREAKDOWN

In YAG mode, a continuously variable anterior and posterior offset control adjustment (from 0 to ± 500 μm) provides optimum flexibility for all procedures.



REFLEX TECHNOLOGY

Ellex's proprietary Reflex Technology™ comprises a unique 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 floaters, 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.

Reflex Technology™ also allows you to toggle between on- and off-axis modes in order to better visualize the floater – and to assess its position relative to the lens and/or retina: on-axis mode provides greater visualization of floaters located in the middle and posterior vitreous and offers necessary spatial context, especially in relation to the retina; off-axis mode provides better visualization of floaters located in the anterior vitreous.

ON-AXIS VISUALIZATION

Provides greater visualization of floaters located in the middle and posterior vitreous

Allows for spatial context – especially near the retina

Red-Reflex provides greater visual contrast in order to better visualize certain floaters



Image courtesy of Paul Singh, MD

OFF-AXIS VISUALIZATION

Provides greater visualization of floaters located in the anterior vitreous

Permits better definition of the posterior capsule

Decreases glare in some situations, depending on the location of the floater(s)



Image courtesy of Paul Singh, MD

1. SLT FOR GLAUCOMA

Utilize SLT as an effective first-line glaucoma therapy – and eliminate the issues of patient compliance and medication side effects.

A simple in-office procedure, selective laser trabeculoplasty (SLT) has been shown to lower IOP as effectively as medication, and to offer a consistent safety profile. Best of all, it is efficacious at every stage of the glaucoma treatment algorithm. On average, SLT achieves a reduction in IOP of 30% when used as a first-line option.

2. LFR FOR FLOATERS

Adopt LFR to reduce or eliminate the debilitating visual disturbance caused by symptomatic floaters.

Laser Floater Removal (LFR) involves the use of a specially designed nano-pulsed YAG laser to vaporize floaters. Compared to its early clinical use in the 1980s, modern LFR provides more efficient and safer energy profiles – offering reliable and repeatable outcomes with a low rate of complications and a high degree of patient satisfaction.

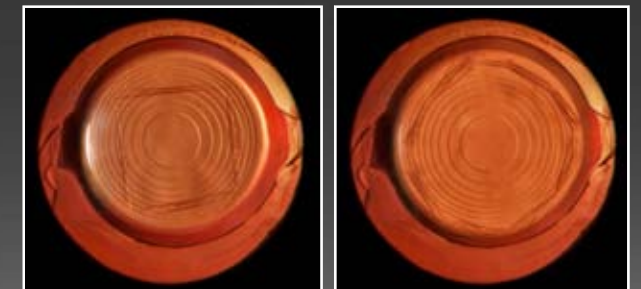


Images courtesy of Karl Brasse, MD, MRCOphth

3. CAPSULOTOMY

Cut tissue more efficiently, and with less cumulative energy, to create a perfectly centred, precise capsulotomy.

A precise capsulotomy is essential for IOLs that correct presbyopia through implantation in the posterior chamber's capsular bag. Tango Reflex™ creates a capsulotomy opening that is precisely controlled, without causing damage to the lens – even if the lack of a ridge makes the capsule adhere to the optic.



Images courtesy of Karl Brasse, MD, MRCOphth

4. IRIDOTOMY

Create a small, precise iridotomy to exacting precision – and with a reduced risk of lens pitting.

With refractive IOLs, the iridotomy aperture must be large enough to ensure a balanced aqueous flow, yet small enough so that no light is transmitted back to the pupil. The Tango Reflex™ enables you to create a precise size of the iridotomy, often in a single shot that uses lower energy than other YAG lasers.



SPECIFICATIONS

	SLT MODE	YAG MODE
Laser Source	Q-switched, frequency doubled Nd:YAG	Q-switched Nd:YAG
Wavelength	green: 532 nm	infrared: 1064 nm
Energy	0.3 to 2.6 mJ per pulse, continuously variable	0.3 to 10 mJ per pulse, continuously variable
Pulse Width	3 ns	4 ns
Burst Mode	single pulse only	1, 2 and 3 pulses per burst, selectable
Spot Size	400 µm	8 µm
Cone Angle	<3 degrees	16 degrees
Offset (Anterior and Posterior)	not applicable	0 to ± 500 µm, continuously variable
Illumination	<16 degrees	Coaxial (Reflex Technology)
Aiming Beam	red 635 nm, adjustable intensity	green 515 nm, adjustable intensity
(common to both)		
Repetition Rate	up to 3 Hertz	
Magnification	10x, 16x, 28x	
Cooling	air cooled	
Electrical Requirements	100–240 VAC, 50/60 Hz, 800 VA	
Weight	31 kg, 68 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	Tonometer mount, vitreolysis laser lens, SLT laser lens, capsulotomy and iridectomy laser lenses, footswitch, five-position magnification changer, beam splitter, 35 mm camera adapter, video camera adapter, co-observation tube	
	Specifications are subject to change without notice.	

INDICATIONS FOR USE

VITREOUS

Posterior Membranectomy
(incl. Laser Floater Removal)

CATARACT

Capsulotomy

GLAUCOMA

Laser Iridotomy

GLAUCOMA

Selective Laser Trabeculoplasty

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