

tango reflex™ neo

PREMIUM
YAG/SLT LASER



 **ellex**®
BY LUMIBIRD MEDICAL

Setting the Standard of Care

tango reflex[™] neo

reflex[™]
TECHNOLOGY

■ Ellex Second-Generation Reflex[™] Technology

With mode-specific mirror positioning and True Coaxial Illumination[™], Ellex's second-generation Reflex[™] design allows for titratable illumination from full, to partial or no red-reflex, giving complete spatial integrity and excellent contrast of the posterior capsule and other important ocular structures.

■ Exceptional Visualization

Featuring Ellex proprietary Reflex[™] Technology, **Tango Reflex[™] Neo** binocular image, both on and off-axis, combined with titratable illumination, allows high-fidelity visualization of posterior capsule and other important ocular structures. This critical design feature improves clarity overall and increases certainty when performing laser treatments.

ELLEX - SETTING THE STANDARD IN PATIENT CARE

A superior energy beam profile and precise green aiming beam - fully integrated within a purpose-built slit lamp - coupled with True Coaxial Illumination[™], bring visual focus, target illumination and laser treatment beams into alignment at ONE OPTICAL PLANE.

ON OR OFF-AXIS TREATMENT IN YAG & SLT MODES



■ Imprint™

A real-time view of MODE and ENERGY settings.



Ellex's discrete Imprint™ - dynamic Heads-up-display, combined with full functional control of energy settings and laser delivery from a dual function joystick, absolutely streamlines laser procedures. No distractions, complete focus, TOTAL CONTROL.

■ Active Cooling Cavity Technology

The active cooling cavity design of the **Tango Reflex™ Neo** ensures laser stability and repeatability over even the lengthiest treatment, delivering consistent laser pulses at up to 4 Hz, FOUR TIMES PER SECOND, ensuring precise dosage with every laser pulse.



■ Patient Management Remote Diagnostics

Intuitive, full capacitive touch-screen control with patient record management and real-time remote diagnostics.

PROcap™

Premium Refractive Outcome Capsulotomy

**Fewer residual capsule fragments,
IOL intact and precise capsulotomy
diameters**

**RE-ESTABLISHING
YOUR PATIENT'S BASELINE,
BEST QUALITY OF VISION**

■ Extended Posterior offset

Maintain full visual focus with up to 2mm extended posterior offset.

Focus depths greater than those conventionally in use for capsulotomy produce a powerful anterior moving hydraulic jet effect, translating into neater tissue separation and superior IOL protection against ionized plasma strikes^{1,2,3}.

■ Green aiming beam & patient fixation

Improved accuracy in targeting enhances the safety profile of YAG laser treatments. A green aiming beam provides the highest degree of visual contrast for YAG laser procedures, resulting in easier target visualization and more proficient treatment delivery.

■ Precision incision

Ellex's proprietary YAG laser cavity with **Tango Reflex™ Neo**, delivers a four nanosecond Ultra-Gaussian pulse at high peak power, typically achieving the industry's lowest optical breakdown of 1.4 mJ in air⁴. The hyper-efficient laser profile designed by Ellex generates far superior and precise photodisruption of sensitive ocular tissues and better patient outcomes.

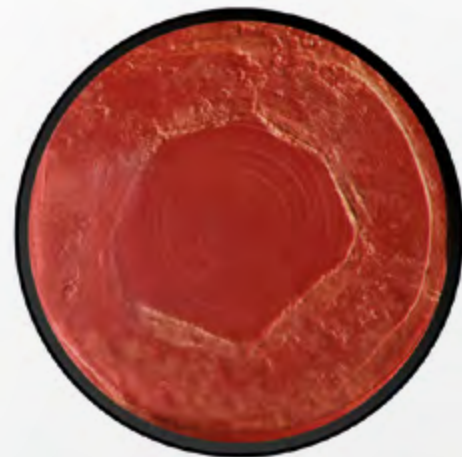


Image courtesy of Karl Brasse, MD

GLAUCOMA TREATMENT

■ Iridotomy

For the YAG treatment of angle closure glaucoma, **Tango Reflex™ Neo** with burst mode provides double or triple laser impact for more efficient creation of a laser peripheral iridotomy within an iris crypt.



LIGHT STUDY IN FIGURES⁵



652

PATIENTS RANDOMLY ASSIGNED TO SLT (329 PATIENTS) OR EYE DROPS (323 PATIENTS).



74.2%

OF SLT PATIENTS REACHED TARGET IOP AND WERE DROP-FREE AT 36 MONTHS.



5 TIMES LESS MEDICATION-DROP RELATED ADVERSE EVENTS* WITH SLT.

**Aesthetic side effect or ocular reactions*

■ SLT

For the treatment of primary open angle glaucoma and ocular hypertension, **Tango Reflex™ Neo** incorporates Ellex's proprietary SLT technology providing superior energy control, an homogenous sharp-edged aiming beam and the industry's fastest laser firing rate of up to 4 Hz - FOUR SHOTS PER SECOND.

- Compliance with medication is key and can be extremely problematic⁶.
- SLT takes compliance out of the patient's hands and is a REPEATABLE laser therapy⁷.
- EGS Recommendation: SLT can be offered as a first-choice treatment for open angle glaucoma⁸.
- Strength of Recommendation: Strong.



More information about SLT:
www.glaucoma-laser-assisted-solutions.com

TECHNICAL SPECIFICATIONS

SLT MODE

Laser Source	Q-switched, frequency doubled Nd:YAG
Wavelength	532 nm
Energy	0.3 to 2.6 mJ per pulse, continuously variable
Pulse Width	3 ns
Burst Mode	Single pulse only
Spot Size	400 µm
Aiming Beam	Red 635 nm, adjustable intensity

YAG MODE

Laser Source	Q-switched Nd:YAG
Wavelength	1064 nm
Energy	0.3 to 10 mJ per pulse, continuously variable
Pulse Width	4 ns
Air breakdown	Typical 1.4 mJ ⁴
Burst Mode	1, 2 and 3 pulses per burst, selectable
Spot Size	8 µm
Offset (Anterior & Posterior)	0, -500 to +2000 µm
Aiming Beam	Dual green 515 nm, adjustable intensity

COMMON FEATURES SPECIFICATION

Repetition Rate	Up to 4 Hertz
Magnification	10x 17x 29x Optimized for enhanced anterior segment visualization
Illumination	LED True Coaxial Illumination™ (Reflex™ Technology)
Cooling	Fan cooled cavity
Imprint™ HUD Display	Energy and mode display within right binocular
Smart Joystick	Dual function, energy adjust and fire
User Interface	10.1" Capacitive touch screen tablet
Medical Records	Compatible with DICOM patient management systems
Remote Service Access	Remote system diagnosis/ fault reporting
Electrical Requirements	100–240 VAC, 50/60 Hz, <800 VA
Weight	27.5 kg, 60.6 lbs (laser only)
Dimensions (HxWxD)	57 x 75 x 44 cm, 23 x 30 x 18 inches (laser only)
Standard Accessories	Total Solution™ table, safety glasses, laser safety sign, dust cover
Optional Accessories	SLT laser lens, capsulotomy and iridotomy laser lenses, footswitch, five-position magnification changer, beam splitter, "C" mount camera adapter, video camera adapter, co-observation tube

Specifications are subject to change without notice



BIBLIOGRAPHY

- (1) G. Hawlina, B. Drnovšek-Olup, J. Možina & P. Gregorčič, Photodisruption of a thin membrane near a solid boundary: an in vitro study of laser capsulotomy, Applied Physics A, 2016
- (2) Uroš Orthaber, Development And Evaluation Of A Laser For Posterior Capsulotomy - Doctoral Thesis, University Of Ljubljana Faculty Of Mathematics And Physics Department Of Physics
- (3) Brasse K, Der laser Kann Viel Mehr Als Nur Nachstar Und Iridotomie, Eyeland Design Network, 2022
- (4) Based on system performance testing (data on file)
- (5) Gazzard G, Konstantakopoulou E, Garway-Heath D, et al. Selective laser trabeculoplasty versus eye drops for first-line treatment of ocular hypertension and glaucoma (LIGHT): a multicentre randomised controlled trial. Lancet 2019, Mar 9;393(10180):1505-16.
- (6) Reardon G, Kotak S, Objective assessment of compliance and persistence among patients treated for glaucoma and ocular hypertension: a systematic review. Epub 2011 Sep 23. PMID: 22003282; PMCID: PMC3191921.
- (7) Garg A, Vickerstaff V, et al. Efficacy of Repeat Selective Laser Trabeculoplasty in Medication-Naive Open-Angle Glaucoma and Ocular Hypertension during the LIGHT Trial. Ophthalmology. 2020 Apr;127(4):467-476. doi: 10.1016/j.ophtha.2019.10.023. Epub 2019 Oct 30. PMID: 32005561.
- (8) European Glaucoma Society Terminology and Guidelines for Glaucoma, 5th Edition. Br J Ophthalmol. 2021 Jun;105(Suppl 1):1-169. doi: 10.1136/bjophthalmol-2021-egsguidelines. PMID: 34675001.

www.ellex.com



LASER CLASS 3B Nd:YAG: 1064nm, 5mJ Max, 4ns pulse & Nd:YAG: 532nm, 6mJ Max, 3ns pulse
LASER CLASS 2 Diode Laser 635nm, <1mW Max CW & Diode Laser 515nm, <1mW Max CW
WARNING - VISIBLE AND INVISIBLE LASER RADIATION - AVOID EXPOSURE TO BEAM
CLASS 3B LASER PRODUCT per IEC 60825-1:2014

CE
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Headquarters

Lumibird Medical
1, Rue du Bois Joli - CS40015
63808 Cournon d'Auvergne - France
Tel: +33 (0)4 73 745 745

Manufacturer

Ellex Medical Pty Ltd
3-4 Second Avenue
Mawson Lakes, SA 5095 Australia
Tel: +61 (0)8 7074 8200
ISO 13485 : 2016

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