

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.

| Initials | Name | Date of Birth | Patient ID |
|----------|-----------------|---------------|------------|
| B | James Bond | 12 May 1969 | pp2003 |
| D | Raf Danurien | 07 Feb 1988 | pp2009 |
| F | Grace Dougherty | 09 Jun 1994 | pp2005 |
| F | Tanya Floyd | 10 Oct 1978 | pp2006 |
| G | Mary Green | 10 Feb 1973 | pp2001 |
| H | Mara Hancock | 06 Jun 1994 | pp2045 |

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.lumibird-medical.com



LASER CLASS 3B Nd:YAG: 1064nm, 55mJ 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
0805

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