

tango[®] reflex[®] neo

PREMIUM
YAG/SLT LASER



 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 the 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

Experience precision like never before with Ellex's premium laser system. Featuring our exclusive True Coaxial Illumination (TCI™) technology, this advanced slit lamp and illumination tower design seamlessly aligns your line of sight, target illumination, and treatment beam into a single optical pathway. The result: unmatched clarity, accuracy, and confidence with every procedure.

ON OR OFF-AXIS TREATMENT IN YAG & SLT MODES

ELLEX, A BRAND OF LUMIBIRD MEDICAL

■ Imprint

A real-time view of MODE and ENERGY settings.



Ellex's discrete Imprint - dynamic Head-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	Ref
B	James Bird	12 May 1969	pg2003
D	Paul Darnatan	03 Feb 1988	pg2009
E	Grace Dougherty	09 Jun 1994	pg2005
F	Tanya Floyd	10 Oct 1976	pg2006
G	Mary Green	10 Feb 1973	pg2001
H	Mare Hancock	06 Jun 1994	pg2045

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 Head-Up Display	Energy and mode display within right binocular (Upon availability)
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. Non contractual pictures.

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BIBLIOGRAPHY

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- (4) Average performance only. 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. PMID: 22003282; PMCID: PMC3191921.
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- (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.



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 815nm, <1mW Max CW
WARNING: VISIBLE AND INVISIBLE LASER RADIATION - AVOID EXPOSURE TO BEAM
CLASS 3B LASER PRODUCT per IEC 60825-1:2014

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2797 CA
0086

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