PROcap_m

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 **UltraQ Reflex™ Neo**, delivers a four nanosecond Ultra-Gaussian pulse at high peak power, typically achieving the industry's lowest optical breakdown of 1.4 ml in air 4. The hyperefficient 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

ultraq reflex neo

TECHNICAL SPECIFICATIONS

PRODUCT SPECIFICATIONS O-Switched Nd:YAG Cone angle Offset (Anterior & Posterior) Laser Source 0.3 to 10 mJ per pulse, continuously Aiming Beam Repetition Rate variable Pulse Width Air breakdow Typical 1.4 mJ* 1, 2 and 3 pulses per burst, selectable Burst Mode Spot Size Illumination Cooling Imprint™ Smart Joystick User Interface Medical Records Remote Service Access **Electrical Requirements** Standard Accessories **Optional Accessories**

0, -500 to +2000 μm Dual green 515 nm, adjustable intensity Up to 4 Hertz Optimized for enhanced anterior LED True Coaxial Illumination™ (Reflex™ Technology) Energy and mode display within Dual function, energy adjust and fire 10.1" Capacitive touch screen tablet Compatible with DICOM patient management system Remote system diagnosis/ fault reporting 100–240 VAC, 50/60 Hz, < 800 VA 26.8 kg, 59.1 lbs (laser only) 57 X 75 X 44 cm. 23 X 30 X 18 inches Total Solution™ table, safety glasses, laser safety sign, dust cover Capsulotomy and iridotomy laser lenses, footswitch, five-position magnification

based on system performance testing (data on file) Specifications are subject to change without notice Non contractual pictures.

co-observation tube

changer, beam splitter, "C" mount camera adapter, video camera adapter,

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(1) G. Hawlina, B. Drnovšek-Olup, J. Možina & P. Gregorčič, Photo disruption 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) J. C. Isselin, A. P. Alloncle, D. Dufresne & M. Autric (1997) Behavior of a cavitation bubble near a solid wall. Contribution to the study of the erosion mechanism, La Houille Blanche, 83:6, 29-33, DOI: 10.1051/lhb/1997047

(4) Based on system performance testing (data on file) (5) https://evewiki.aao.org/Laser Peripheral Iridotomy - Ana IM Miguel, Sara HM Marques, Mário Cruz, Ahmad A. Aref, MD, MBA, André Borges Silva, Jonathan C. Tsui, MD, December 25, 2022.

ultraq reflex

PREMIUM **YAG LASER**



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LUMIBIRD° QUANTEL MEDICAL - ELLEX - OPTOTEK MEDICAL

Setting the Standard of Care







At the heart of **UltraQ Reflex™ Neo** lies (TCI™). Technology providing a clear and titratable red reflex across the entire width of the pupil. You will see the highest degree of contrast, edge definition and detailed shadowing of posterior capsule and other important ocular structures.

■ Established Reflex[™] Performance

The Reflex™ illumination mirror operates in perfect synchronicity with each depression of the laser fire control switch, facilitating accurate targeting and precise laser delivery.



■ Imprint[™]

A real-time view of MODE and ENERGY



1.0mJ YAG

Ellex's discrete Imprint™ - dynamic Headsupdisplay, 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 UltraQ **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.

ELLEX® - SETTING THE STANDARD IN **PATIENT CARE**

A superior energy beam profile and precise dual, 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.



Patient Management **Remote Diagnostics**

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



■ Laser Peripheral Iridotomy

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



Laser peripheral iridotomy (LPI) is indicated to prevent or overcome a suspected relative pupillary block by creating an alternative pathway for aqueous flow. Mainly used for patients in the primary angle closure spectrum, it can also be useful in secondary angle closure glaucoma and in the management of other types of glaucoma with associated pupillary block. The iridocorneal angle should be, in all cases, carefully examined after LPI to rule out other mechanisms of a closed angle requiring treatment⁵.

Summary of indications for laser peripheral iridotomy (LPI)

Acute Primary Angle Closure (APAC)

Contralateral eye in APAC

Primary Angle Closure suspect (PACS), «narrow» or «occludable» angle

Primary Angle Closure (PAC) and Primary Angle Closure Glaucoma (PACG)

Secondary Angle Closure with Pupillary Block

Plateau Iris Configuration and Plateau Iris Syndrome

Aqueous Misdirection, Cilio-lenticular block, Ciliary Block or Malignant Glaucoma



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