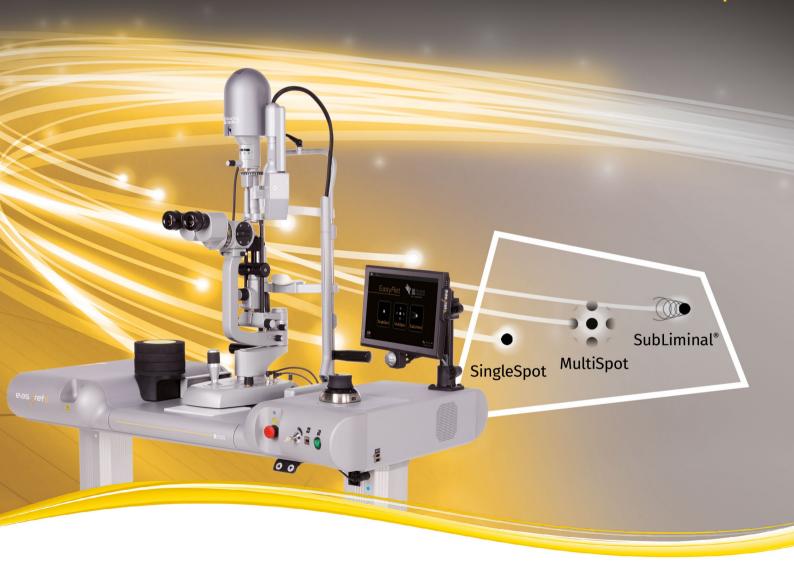
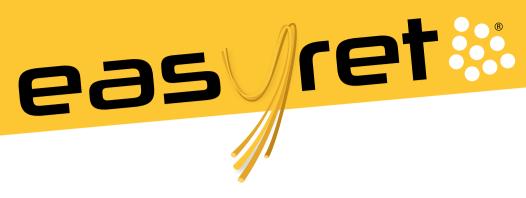


577 nm FIBER TECHNOLOGY LASER





Peripheral and Macular Photocoagulation



Easyret° is a fully integrated **577 nm yellow photocoagulator** based on a **technological breakthrough: fiber laser technology.** Available with Haag Streit or Zeiss type slit lamps, it offers a large choice of treatment settings well adapted to the treatment of macular and peripheral retinal pathologies.

EASYRET®: YELLOW FIBER LASER, FEATURING MULTISPOT AND SUBLIMINAL® TECHNOLOGIES

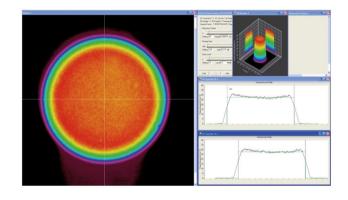
Fiber Laser Technology:

Stemming from the ELBA™ technology, developed and successfully marketed by Quantel Laser for various applications, this new generation of laser cavity provides unique advantages:

- An excellent beam quality ensuring a homogeneous laser spot profile (top hat)
- The emission of pure 577 nm yellow wavelength
- An extended lifetime thanks to a simple, compact and reliable technology.

The fiber laser technology is a variation of the standard solidstate laser technology.

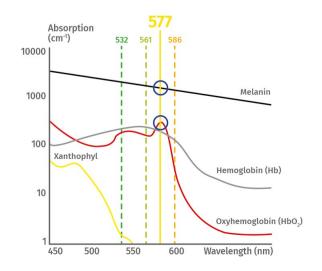
In fiber lasers, the lasing medium is composed of an optical fiber doped with rare earth elements and optically pumped by diodes.



Yellow Laser - 577 nm Wavelength:

Presented as the most versatile wavelength in the scientific literature, the 577 nm wavelength offers the following benefits:

- Excellent combined absorption by both melanin and oxyhemoglobin (peak absorption of oxyhemoglobin) [1,2]
- Very little absorption by macular xanthophyll pigments [1,2]
- Excellent penetration through cataracts and hazy media [1,2].
- 1- Vogel M, Schäfer FP, Stuke M, Müller K, Theuring S, Morawietz A.
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ENHANCED SOFTWARE USER INTERFACE

3 Treatment Modes/3 Dedicated Targets:

Easyret® provides an intuitive and versatile software user interface simplifying the use of the SingleSpot, MultiSpot and SubLiminal® treatment modes. Built in a clinically oriented manner, Easyret® offers 3 different types of visible targets (aiming beam) facilitating the implementation of the laser spots













MOSAR®:

A HIGH DEFINITION IMAGING SYSTEM FOR EASYRET®

Mosar® is an optional camera/video imaging system compatible with the Easyret® laser.

It features:

- A co-observation teaching mode for live viewing of laser procedures
- An advanced mode allowing the operator to:
- Import diagnosis images facilitating the laser treatment planning
- Prepare, print and record advanced treatment reports including fundus and diagnosis images
- Take pictures or record treatment videos for presentation and training purposes.

After each treatment all the generated images, videos and treatment reports can be saved and exported on a USB drive or a local network.

MultiSpot Technology:

Characterized by the use of short pulse durations from 10 to 20 ms, this technology offers many advantages over classical treatments:

- Less heat diffusion to the retina and choroid, less damage to the retinal nerve fiber layer [3,4]
- Comfortable treatment better tolerated by patients [5]
- Treatment time reduction (full PRP in 1 session) [6].

It can be delivered through 4 customizable patterns for better adaptation to the treatment site.



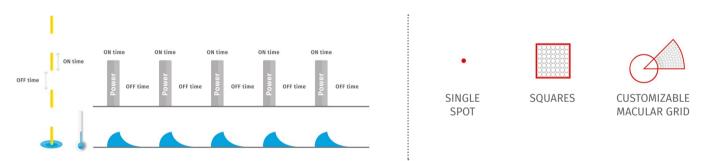


MultiSpot Panphotocoagulation

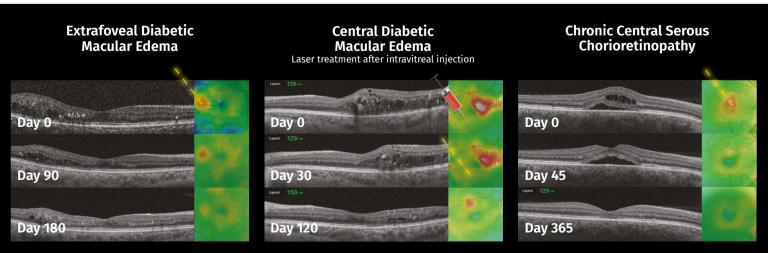
Image courtesy of Alejondro Filloy Ruis, MD, Ph.D.
Tarragona, Spain

SubLiminal® Technology:

Composed of a train of extremely short microsecond pulses, this subthreshold treatment mode (non-visible laser impacts) allows the operator to fully adjust the pulse duration (On Time) and interval (Off Time). This fined-tuned control of the laser treatment settings ensures a precise management of the thermal effect on the targeted tissues. It can be delivered through 3 customizable patterns:



Studies using this tissue sparing treatment mode avoiding scarring [7,8] have reports successful outcomes for diabetic macular edema [7] and central serous chorioretinopathy [8].



TECHNICAL SPECIFICATIONS

EASYRET SPECIFICATIONS

Laser source: fiber laser technology

Wavelength: yellow 577 nm Power at tissue up to: 2000 mW

Pulse duration: 10 ms to continuous

Single spot modes: single, repeat, painting, continuous SubLiminal® mode: train of microsecond pulses

adjustable duty cycle: 5% to 100% Resume® function: available in MultiSpot and

SubLiminal® modes

Pattern:

MultiSpot mode: single spot, squares, circles, triple arc,

macular grid

SubLiminal® mode: single spot, squares, customizable

macular grid

Spot size:

Single spot: continuously variable from 50 um to 400 um Pattern:

continuously variable from 100 µm to 400 µm

Integrated slit lamps:

Haag Streit type: Quantel Medical (CSO 9900 5x) Zeiss type: Ouantel Medical (CSO 9800 5x)

Aiming beam: 635 - 650 nm

174.2 (H) x 97 (W) x 72 (D) cm Size:

68.58" (H) x 38.19" (W) x 28.35" (D)

Weight: 60 kg - 132 lbs

by Peltier effect Cooling:

Power requirements: 100 to 240 VAC, 250 VA, 50/60 Hz

OPTIONAL FEATURES

Single column stand or Twin column stand

Easyret® with LIO port

Laser indirect ophthalmoscope Keeler Vantage Plus

Specifications are subject to change without notice. Non contractual pictures.

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MOSAR SPECIFICATIONS

Camera:

1280 x 720 pixels Image resolution: Compatibility: Easyret® laser Camera position: left or right eye

Computer and screen:

Connected on Easyret® screen arm Touchscreen size: 10 1" Storage: SSD 256 GB Connectivity: USB and Ethernet Power supply: 12 VDC / 5A

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5- Hussainy S Al, Dodson PM and Gibson JM

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