

Peripheral and Macular Photocoagulation



Easyret® is a fully integrated 577nm yellow

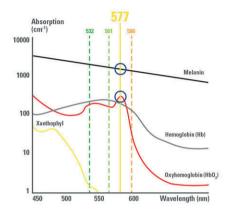
photocoagulator based on a technological breakthrough: fiber laser technology. Available with Haag Streit or Zeiss type slit lamps, it offers a large choice of treatment settings well

Easyret®: Yellow, MultiSpot and MicroPulse®

Yellow Laser - 577nm Wavelength:

Presented as the most versatile wavelength in the scientific literature. the 577nm 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]



• MultiSpot Mode:

Characterized by the use of short pulse durations from 10 to 20 ms, the MultiSpot treatment mode 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]

The MultiSpot treatment mode can be delivered through 5 customizable patterns for better adaptation to the treatment site.

Single spot - Squares - Circles - Triple arcs - Macular grid

MicroPulse® Mode:

Composed of a train of extremely short microsecond pulses, this subthreshold treatment mode (non-visible laser impacts) is a tissue sparing treatment mode avoiding scarring [7,8] while treating Diabetic Macular Edema [7] and Central Serous Chorioretinopathy [8].

The MicroPulse® treatment mode can be delivered through 3 customizable patterns for better adaptation to the treatment site.

PATTERN SELECTION TYPE	DELIVERED LASER SPOTS
SINGLE SPOT	•
SQUARES	•••
CIRCLES	• • •
TRIPLE ARCS	
MACULAR GRID	

PATTERN SELECTION TYPE	DELIVERED LASER SPOTS
SINGLE SPOT	•
SQUARES	
CUSTOMIZABLE MACULAR GRID	



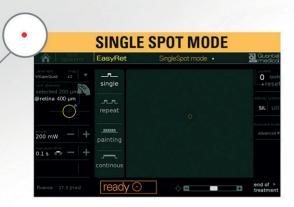
Easyret®:

Enhanced Software User Interface

3 Treatment Modes / 3 Dedicated Targets:

Easyret® provides an intuitive and versatile software user interface simplifying the use of the Single Spot, MultiSpot and MicroPulse® 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 with each treatment mode.







Treatment Report: •

After treatment, a detailed report can be generated in PDF format. It can be printed and / or saved on a dedicated USB key.





A WORLD FIRST TO MARKET IN PHOTOCOAGULATION:



Easyret®: Technology

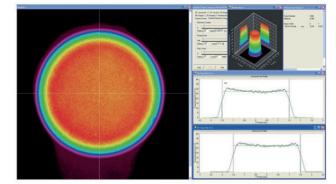
Fiber Laser Technology:

Stemming from the ELBATM 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 577nm yellow wavelength
- An extended lifetime thanks to a simple, compact and reliable technology

The fiber laser technology is a variation of the standard solid-state laser technology.

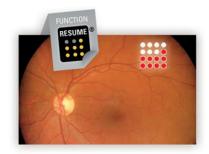
In fiber lasers, the lasing medium is composed of an optical fiber doped with rare earth elements and optically pumped by diodes.



Resume® Technology:

Easyret® features the proprietary Resume® function offering more flexibility to the operator in the implementation of the MultiSpot and the MicroPulse® treatment modes.

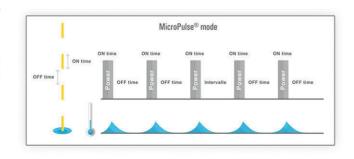
- In MultiSpot mode, the pattern delivery can be paused and resumed (the previous shots are remembered)
- In MicroPulse® mode, the treatment is combined with the pattern scan mode and delivered semi-automatically in several steps



MicroPulse® Technology:

In addition to SingleSpot and MultiSpot delivery modes, Easyret® features the MicroPulse® technology.

The use of this subthreshold treatment mode converts each laser shot into a "pulse envelope" composed of a customizable train of short pulses, allowing 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.



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- 7- Yoon Hyung Kwon, Dong Kyu Lee, Oh Woong Kwon The short-term efficacy of subthreshold micropulse yellow (577-nm) laser photocoagulation for diabetic macular édema. Korean J Ophthalmol 2014;28(5):379-385
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 Ophthalmologica 2015 DOI: 10.1159/000439600

single, repeat, painting, continuous adjustable duty cycle: 5% to 100%

Patterns: MultiSpot mode: single spot, squares, circles, triple arc, macular grid MicroPulse® mode: single spot, squares, customizable macular grid Resume® function

Spot size: continuously variable from 50 µm to 400 µm Single spot: continuously variable from 100 µm to 400 µm Pattern:

Integrated slit lamps: Haag Streit type: Quantel Medical (CSO 990 5x) Quantel Medical (CSO 980 5x) Zeiss type:

Aiming beam: 635 - 650nm

174.2 (H) x 97 (W) x 72 (D) cm Size: 68.58" (H) x 38.19" (W) x 28.35" (D) Weight: 64.80 kg - 142.86 lbs

Cooling: by Peltier effect Power requirements: 100 to 240 VAC, 350 VA, 50/60 Hz

OPTIONAL FEATURES

Second laser port

Laser indirect ophthalmoscopes: Heine Omega 500 or Keeler Vantage Plus

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