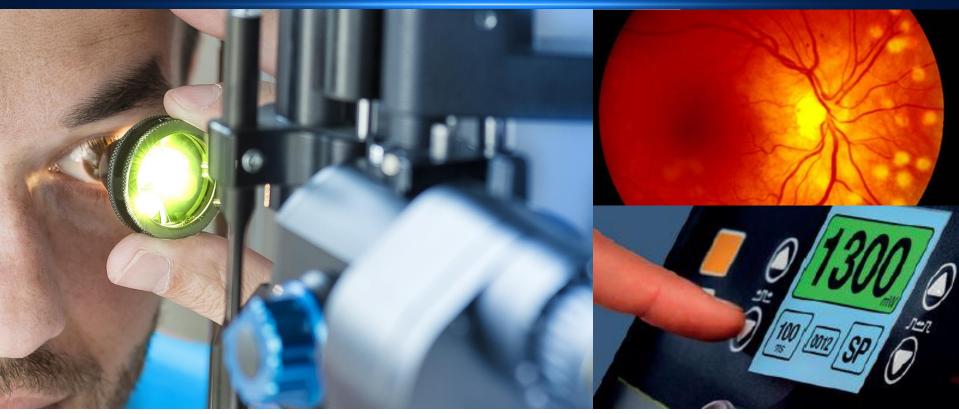


Classic 514 offers the superior argon wavelength for retina coagulation







Slit lamp application with contact lens



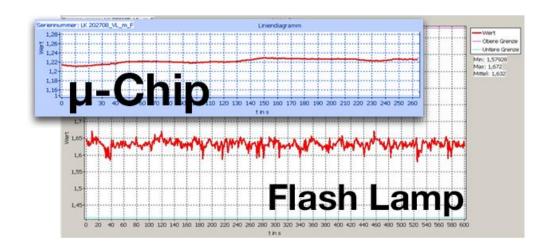


Advantages

- Perfect optic for the posterior segment
 - Convergent binocular
 - Clear filter protection
 - Compact housing
 - μ-Chip laser for stable beam characteristics



Why µ-Chip technology?



Advantage: Energy stability



Why Argon Green?



In Retinal Coagulation

studies show evidence for same Visual outcome (VA) and OCT parameters for Green or Yellow



Why Argon Green?



Published in final edited form as:

Retina. 2013; 33(10): 2080-2088. doi:10.1097/IAE.0b013e318295f744.

Green or Yellow Laser Treatment for Diabetic Macular Edema: Exploratory Assessment within the Diabetic Retinopathy Clinical Research Network

Susan B. Bressler, MD¹, Talat Almukhtar, MBChB, MPH², Lloyd Paul Aiello, MD³, Neil M. Bressler, MD¹, Frederick L. Ferris III, MD⁴, Adam R. Glassman, MS², and Craig M. Greven, MD⁵ for the Diabetic Retinopathy Clinical Research Network

¹Wilmer Eye Institute, Johns Hopkins University School of Medicine



Why Argon Green?





Why Argon Green?

The **514nm Coagulation Laser**Shows Benefits over **532nm System**

A ccording to Dr. Udo Heuer, ophthalmologist at Medical Eye-Care in Hamburg, Germany, the majority of his diabetes patients suffered from stress when he performed a grid/pan-retinal coagulation. He says that the procedure could take up to 25 minutes, and because the patients were in pain they would close their eyes or blink before the target number of expositions was achieved.

"In former days, the argon gas lasers delivered 514nm wavelength which was less aggressive . . . many of the first-generation ophthalmologists remember the difference when changing their equipment to solid state YAG lasers with 532nm," explained Dr. Heuer. "Patients complained more and the coagulation spots appeared somehow faster. Today, microchip technology allows us to overcome this hurdle."

This new Nano-Laser system –
the 514nm endo FOX laser by A.R.C.
Laser GmbH (Nuremberg, Germany)
– is generating positive feedback
from ophthalmologists, like Dr. Heuer,
Perhaps the smallest and most compact
coagulation laser in ophthalmology
today, this system has been shown to
reduce patient stress, induce less pain
and overall improve treatment success.

"The 514nm laser wavelength is

now offered to us, and I am quite happy about that," continued Dr. Heuer. "With the new 514nm laser, we performed more than 500 treatment spots on the retina on all of our latest diabetes patients, without the need of any additional parabulbar anesthesia."

He says that reducing the patients' pain enhances their cooperation, which leads to quicker treatments. "This success is a result of completed and uninterrupted coagulation, which is much more likely with lasers causing less pain," he added.

For more information about this, and other laser systems, visit www. arclaser.de.



Why Argon Green?



No Pain, No Gain?

Is argon-microchip technology for retinal photocoagulation really less painful than a frequency doubled Nd:YAG laser?

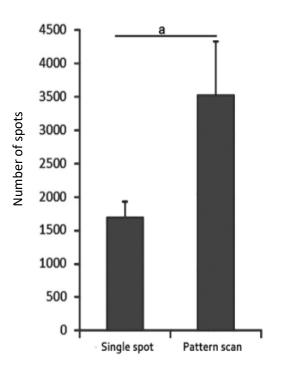
Norbert Schrage, Daniel Uthoff, Andreas Cordes | 04/15/2021 | Longer Read

- smoother, less "aggressive" absorption causes less pain
- 514 has more pigment, but less blood absorption

https://theophthalmologist.com/subspecialties/no-pain-no-gain



Why Single Spot?



Advantage:

lower total energy

Figure 4 Average total number of laser burns needed to complete pan-retinal photocoagulation. The pattern scan laser required more laser burns than the conventional single spot laser. **P<0.05.

^{*} Int. J Ophthalm Vol.7, No.4, Aug. 18, 2014

Multicolor pattern scan laser for diabetic retinopathy

Takao Hirano, Yasuhiro lesato, Toshinori Murata



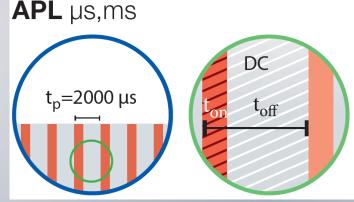




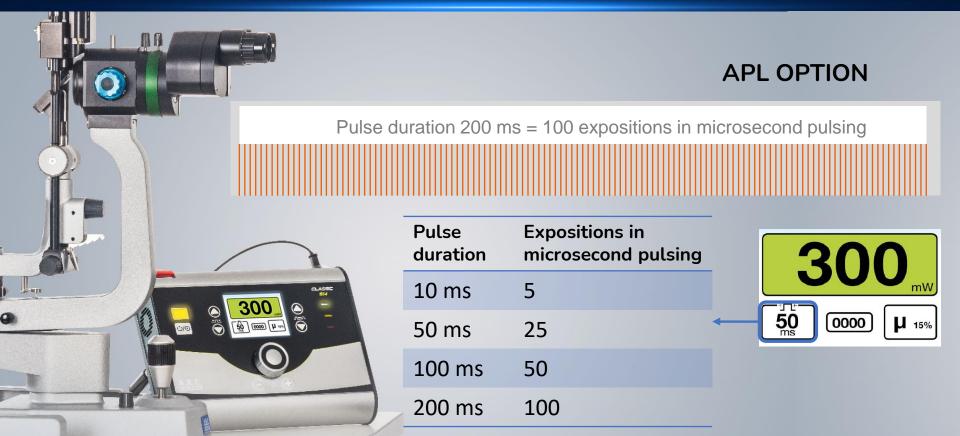


APL OPTION

 $\mu_{5\%} = DC$ 5%: 100 µs on, 1900 µs off $\mu_{10\%} = DC$ 10%: 200 µs on, 1800 µs off $\mu_{15\%} = DC$ 15%: 300 µs on, 1700 µs off











Advantages

- All Pulse Laser technology (APL)
- Convergent binocular
- Perfect optic for posterior segment
- Spacious legroom
- Clear filter protection
- Coupling to third-party slit lamp with L-ord*

^{*}compatibility need to be checked before order





Combination system VARIO Combine Classic 514 with Nd:YAG or SLT

Advantages

- Convergent / parallel binocular
 - Perfect optic for posterior / anterior segment
 - Spacious legroom





L-ord

Standard:

Classic 514 is connected to PCL 5 alit lamp (A.R.C. Laser)

L-Ord offers the opportunity to connect Classic 514 to third-party slit lamps





Standard:

Classic 514 is connected to

PCL 5 slit lamp (A.R.C. Laser)

PCL 5 SuperView

L-Ord offers the opportunity to connect Classic 514 to third-party slit lamps















Advantages

- Premium color neutral eye protection filter
- Variable spot size (50 -500 μm)
- Simple setup
- Fits for different Haag Streit compatible slit lamp models*
- Easily removed from the slit lamp, the L-ord does not change the diagnostic slit lamp

(stand for L-ord included)

^{*}compatibility need to be checked before order













