A.R.C. LASER
made in Germany

Q-Las: The Nd:YAG in your daily routine for Capsulotomy and Iridotomy

Q-LAS the standard laser in your daily routine

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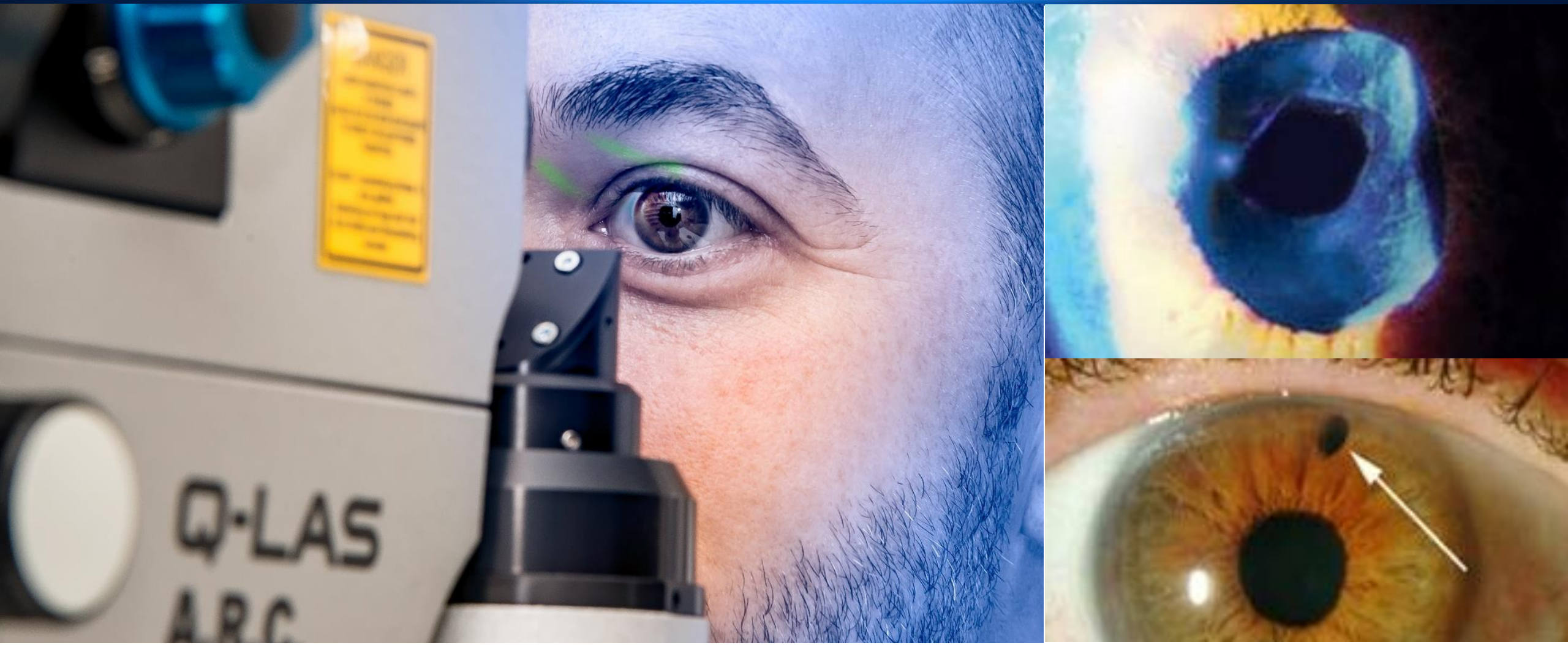

Ideal for capsulotomy and iridotomy

Q-LAS the standard laser in your daily routine

Advantages

- Perfect optic for anterior segment
- Choose from parallel or convergent binocular
- Dual spot aiming beam
- Clear filter protection

Optional

Illumination tower (prism) lower to keep

0° straight position with the illumination light.

Q-Las

YAG-Laser

32mJ max. at 3 pulses

Energy: 0.5mJ to 30 mJ

Focal shift: 150/300µm posterior

By courtesy of A.R.C. Laser

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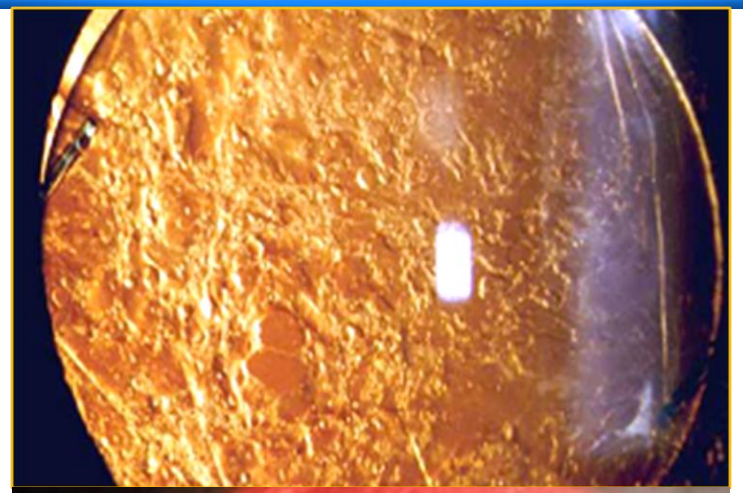
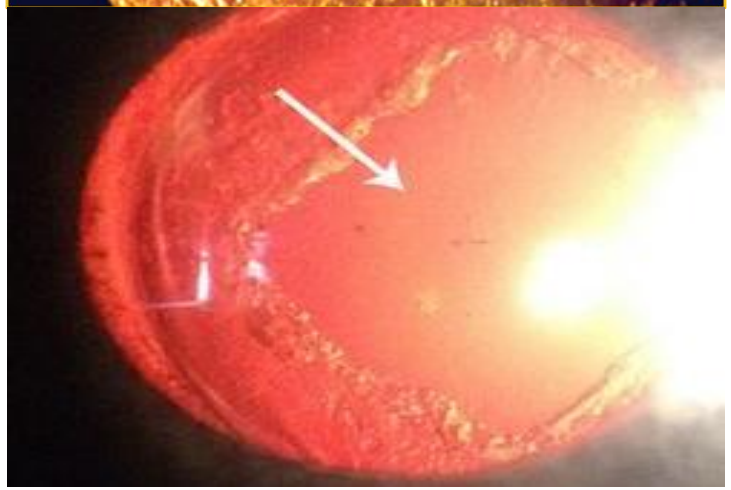
Secondary Cataract
Treatment of patients suffering from posterior capsule opacification





opening in the capsule to remove fibrosis after cataract surgery to eliminate opacification

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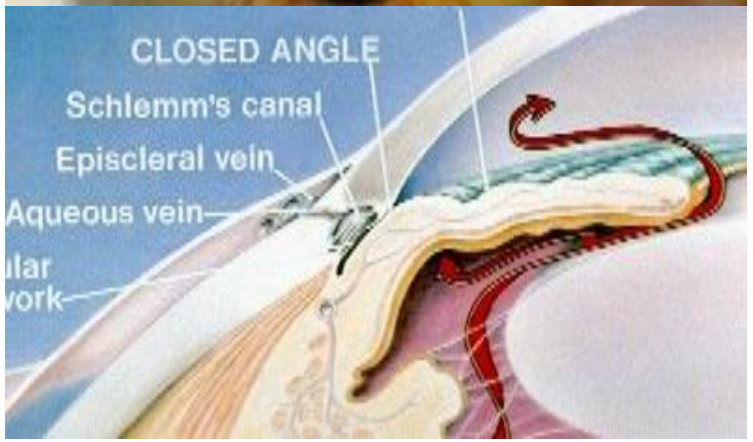
Iridotomy:
Treatment of patients suffering from angle closure glaucoma

preventive intervention for planar anterior chambers/ narrow chamber angle



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CONVENIENT CONTROL SETTINGS

(Clever details for more comfort)

- Continuous energy levels from 0.5 to 10 mJ
- Prominent buttons, clear, bright display

- Choose your favorite eye piece:
- Either convergent or parallel optics.

1064 nm

Ideal Position of the controller: directly under the binoculars, adjustable angulation

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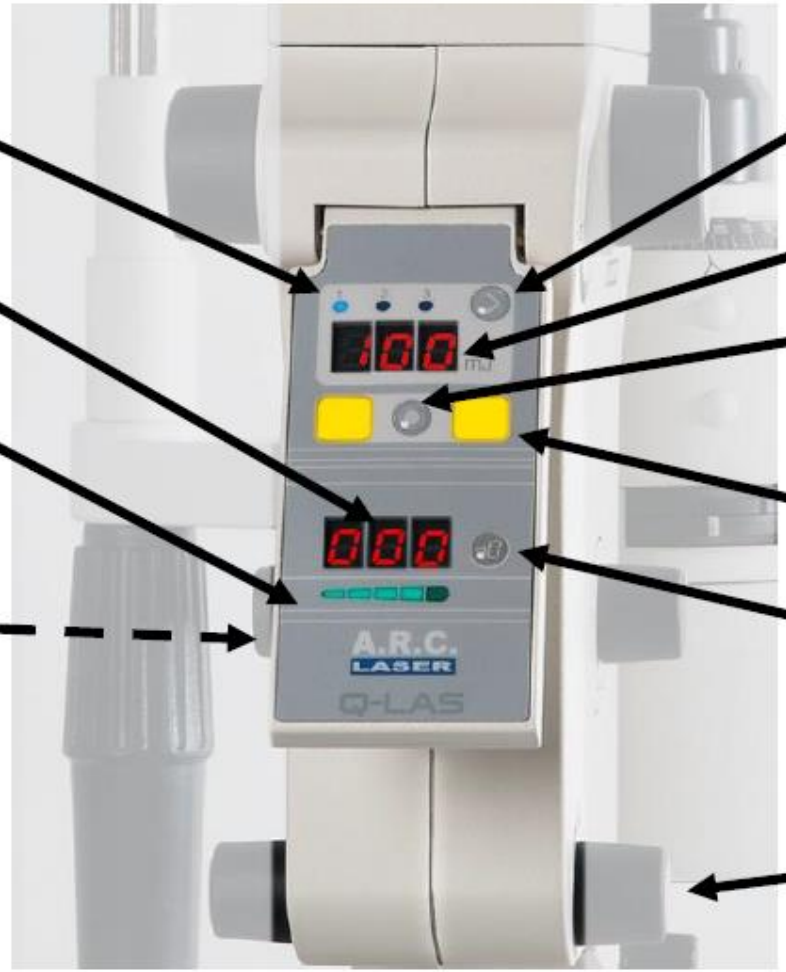
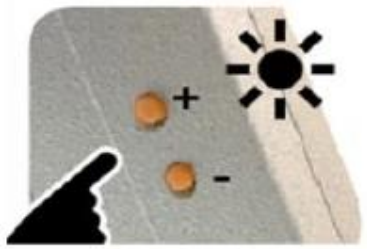


Burst Mode LED
1 / 2 / 3

Counter

Visualisation of currently set aiming beam brightness

Buttons to change the LCD brightness
Display back:



Burst Mode button

Energy [mJ]

READY / STANDBY, and READY LED

Ready LED

Reset Counter

Aiming beam brightness

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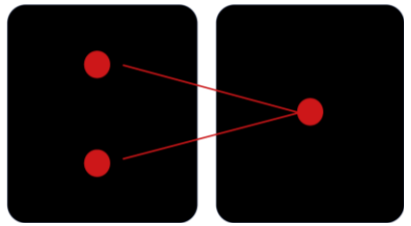
State-of-the-art-capsulotomy laser:

- Perfect optic for anterior segment
- Choose from parallel or convergent binocular
- Dual spot aiming beam
- Head up display (optional)



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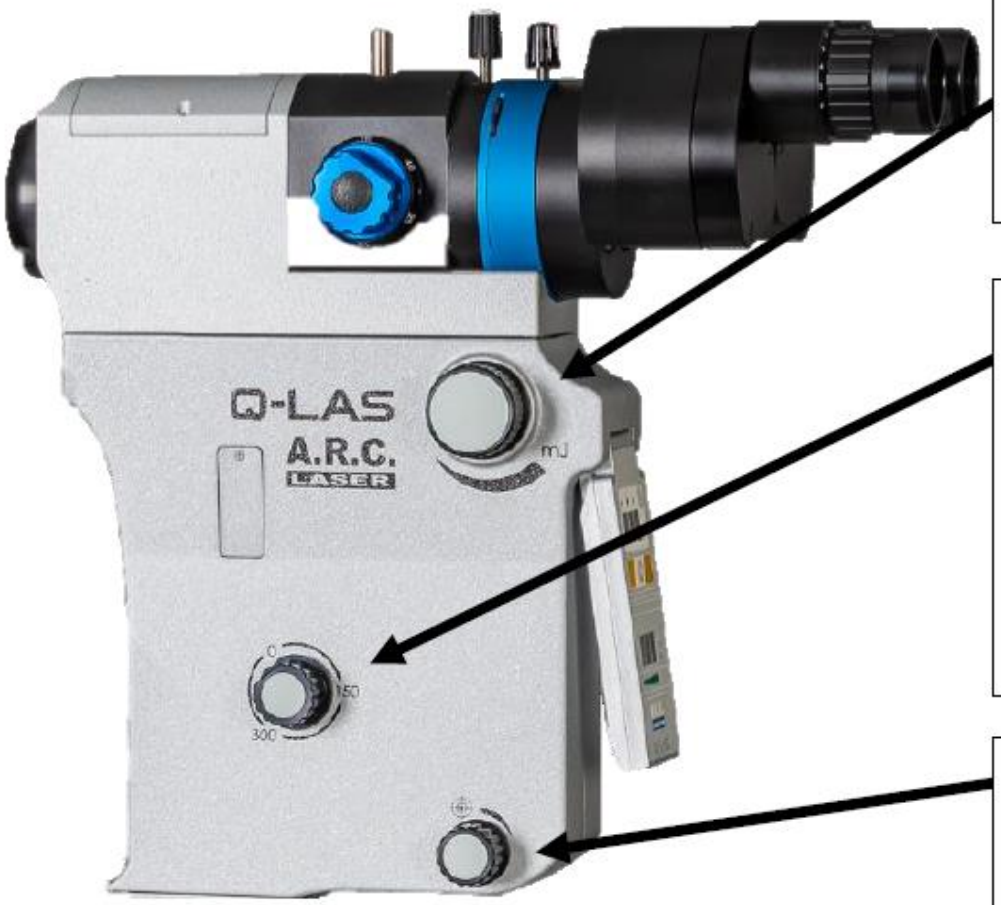

Rotation knobs on both sides
for left and right handed use

Power Selection

Use the energy knob to increase or decrease the energy emitted during one shot of the laser.

Focus Shift

The laser focus will be moved posterior:
0: Area of laser effect is ~30 µm behind the focal plane
150: Area of laser effect is 150 µm behind the focal plane
300: Area of laser effect is 300 µm behind the focal plane
A.R.C. Laser only offer the posterior focus shift,
as there is no application requires an anterior shift

Aiming Beam

Turn the knob to increase or decrease the brightness of the aiming beam.

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Unique features:

1. Selection of eye piece
- parallel
- convergent

parallel

convergent

Q-LAS the standard laser in your daily routine

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Unique features:

2. Illumination tower (prism) lower to keep 0° straight position with the illumination light.

Laser can be exposed with illumination in swung in position

Illumination tower need to be in swing out position to laser

Q-LAS the standard laser in your daily routine

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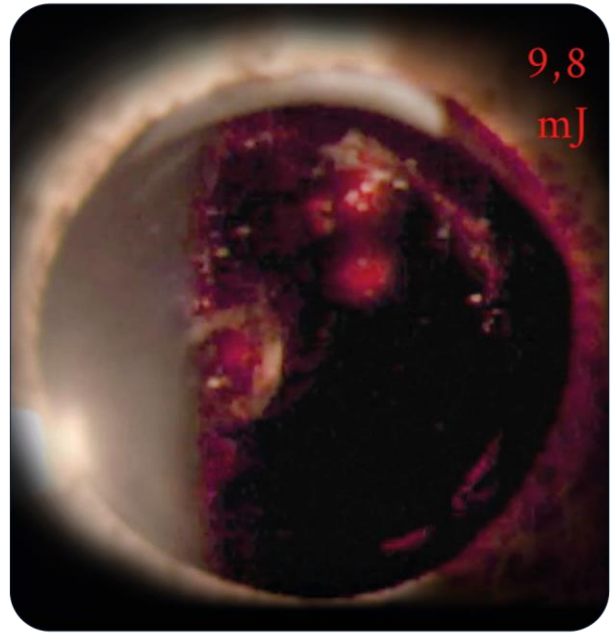
Unique features:

2. Head-Up display displays energy information in the microscopic view.



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Good to know:

1. Refraction of eye piece is not 0; mostly between -1 and -2 due to the building structure of the laser including filters and head up display

→ Please adjust refraction before use

2. Standard microscope binocular is parallel, it is possible to change to convergent during the order process in case of doctors request

→ Parallel has good focus characteristic, therefor ideal for anterior treatments

→ Convergent has good focal depth, therefore it is ideal for porsterior treatments

3. 2 spot aiming beam instead of 3 spot to reduce the numbers of reflection for a better view and positioning

Q-LAS-D the latest advance in Nd:YAG laser

- Comming soon: Q-Las D – the diode pumped Nd:YAG

Energy stability: *Diode* vs. *flash lamp* pumping

Q-LAS-D the latest advance in Nd:YAG laser

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Pulse repetition rate:
Flash lamp laser have restrictions in time because of capacitor recharging!!! Most systems: 3 Hz

Diode pumped systems do not need conventional capacitor recharging:
Fast firing possible: (e.g.) 5 Hz (actual techn. spec. will be changing to higher rep. rates)

Q-LAS-D the latest advance in Nd:YAG laser

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Further technological advantages:

Reliability, live time:
No high voltage in the laser head! No functional/ electronical problems with humidity.