



Nd:YAG LASER

MICRORUPTOR V

MERIDIAN
CREATED WITH AN EYE TO YOUR NEEDS



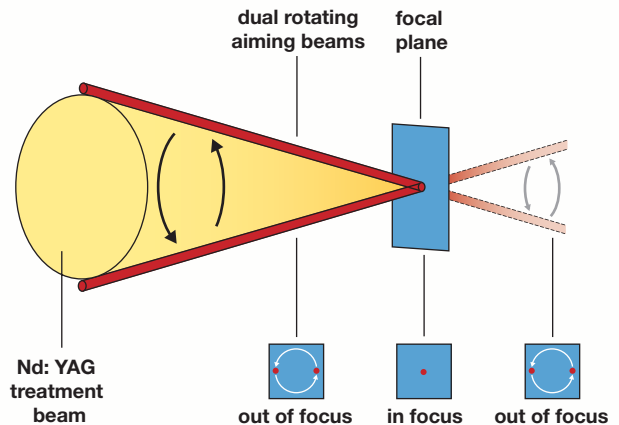
MICRORUPTOR V

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THE PROFESSIONAL LASER FOR POSTERIOR CAPSULOTOMY, IRIDOTOMY AND PUPILLARY MEMBRANECTOMY, WITH INTEGRATED HAAG-STREIT BQ 900® SLIT LAMP AND ERGONOMIC TABLE.

The MICRORUPTOR V Nd:YAG laser with dual rotating aiming beams and superior optics, based on the original HAAG-STREIT BQ 900® slit lamp. The unique combination with a motorised ergonomic, wheelchair accessible table and easy to understand operating controls ensures the highest convenience for both patient and doctor. With the HAAG-STREIT BQ 900® slit lamp the MICRORUPTOR V is especially suitable for Retina examination and can easily be adapted to a combination unit (Combi Unit) with the MERILAS 532α Green Laser Photocoagulator.

The MICRORUPTOR V is designed to combine the best possible ergonomics with the superior optics of the HAAG-STREIT BQ 900® slit lamp, thus enabling you to add a full range of HAAG-STREIT accessories, such as co-observation tube, tonometer, digital photo and video adapter.



The unit is fully mobile and fully wheelchair accessible. Thanks to the modular design it can easily be serviced or repaired. The unique dual rotating aiming beams allows for highly accurate focussing. Any accidental beam obstructions are unmistakably indicated, thus ensuring the best possible safety in focussing the laser. The user friendly display helps the doctor with all the necessary treatment information and laser parameters for efficient and safe patient treatment.

The MICRORUPTOR V is available in two versions:

- MICRORUPTOR V footpedal or
- MICRORUPTOR V STAR with joystick fire

Dual rotating aiming beam for safe and precise operation.

This beam can be adjusted easily for brightness and speed of rotation. It can even be turned off (for examination) or stopped if desired.

MICRORUPTOR V – the Nd:YAG laser for

- Capsulotomy
- Iridotomy
- Pupillary Membranectomy



25 YEARS
YAG in ophthalmology

In 2007 Meridian celebrated the 25th anniversary of the introduction of the MICRORUPTOR II, the first ophthalmic Nd:YAG laser in the world.



Total control of every procedure – Slit lamp body with operating switches for right and left hand use – specially designed for laser surgery.



Laser control panel – with movable LCD display on the table – preset laser energy – selected burst mode and status information – always in view for the ophthalmologist.



Combi Unit. MICRORUPTOR V and MERILAS 5320. Green Laser Photocoagulator with integrated Slitlamp Adapter.

MICRORUPTOR V – the smart choice

- Ergonomic design for full patient- and doctor access
- Fully wheelchair accessible motorised table
- Left and right hand operation controls on column
- Easy to read menu on control panel
- Posterior and anterior defocusing of the position of the treatment focal plane at optimal 0.4mm
- Optimal setting for Iridotomy (repetition rate matches the «Eigenfrequency»)
- Easy to use double and triple bursts for Iridotomy
- Integrated HAAG-STREIT BQ 900® slit lamp, the finest Swiss optics for optimal view and examination
- Compatible with most HAAG-STREIT BQ 900® accessories
- Unique rotating aiming beam for precise and safe focussing
- Easy to upgrade to a combination system with MERILAS 5320. Green Laser Photocoagulator

Optional accessories, Haag-Streit BQ 900® compatible:

- Beam splitter Haag-Streit
- Co-observation tube Haag-Streit
- Digital photo and video adapter Haag-Streit
- Laser contact lenses Haag-Streit
- 5 X Magnification changer Haag-Streit
- Tonometer Haag-Streit

MERIDIAN has been designing, manufacturing and maintaining ophthalmic lasers for more than twenty-five years.

Since the introduction of the first Nd:YAG laser by Prof. Fankhauser, University of Berne Eye Clinic in 1982, Thun has become the place where superior ophthalmic lasers are designed and built. A worldwide distributor network ensures comprehensive service support throughout the world.

See www.meridian.ch for details.

MERIDIAN IS PARTNER OF



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SPECIFICATIONS

LASER

Laser source:

Q-switched Nd:YAG 1064 nm

Energy settings:

max. 10 mJ (30mJ) (27 steps 0.2 – 10 mJ)

Spot size: 7 µm

Cone angle: 16°

Defocus: Anterior/Posterior

Pulse duration: 4 ns

Pulse setting: 1, 2 or 3 pulses per burst

Repetition frequency: 3 Hz

Breakdown threshold:

< 1mJ (in NaCl Solution)

Aiming beam:

Dual rotating mode beam (633 nm), variable intensity and variable rotating speed enveloping the treatment laser beam

Spot size (aiming beam): 50 µm (approx.)

Cooling: Forced air cooling

Electrical requirements:

100 – 240 V VAC, 45 – 65 Hz, 280 VA

Minimum/Maximum height:

70 cm/90 cm (table)

Table dimensions: 90 cm (L) x 62 cm (W)

Application range: Capsulotomy, Iridotomy, Pupillary Membranectomy

LASER SLIT LAMP

Type: Original Haag Streit BQ 900®

Slit image width: 0 – 8 mm continuous

Slit image length: 1 – 8 mm continuous

Illumination field diameter:

8, 5, 3, 2, 1, and 0.2 mm

(Test mark with fixation star)

Slit image radial range: ± 90°

Radial movement to the microscope axis:

Horizontal ± 40°

Filters: blue, red-free (green), grey (10%), heat absorption filter

Light source: Tungsten incandescent light bulb 6 V/4.5 A

Illumination intensity: 0 – 380 000 Lux

STEREO-MICROSCOPE

Objective lens focal length: 105 mm

Magnification changer:

6.3x 10x 16x 25x 40x (optional)

Ocular magnification: 12.5x

Range of adjusting oculars:

+8 to – 8 diopters

Inter-pupillary distance: 52 – 78 mm

MICRORUPTOR V

MICRORUPTOR V (with footpedal)

Part No.

100454

MICRORUPTOR V STAR (with joystick fire)

100455

Combi Unit MR V (with Merilas 532α)

100457

OPTIONAL ACCESSORIES

Part No.

Safety Goggles for Nd:YAG

640087

Elbow rest (handcrafted wood)

414815

Chinrest paper (Box of 250)

610087

LASER LENSES HAAG-STREIT

Part No.

CGIL, Iridectomy

7200194

CGAL, Gonioscopy

7200195

CGPL, Capsulotomy

7200196

CGRL, Retina

7200197

CGVL, Vitrectomy

7200198

HAAG-STREIT ACCESSORIES

Part No.

Magnification Changer

1400330

Co-observation Tube (long)

1400034

Co-observation Tube (short)

1400301

Beamsplitter 50/50

1400308

Beamsplitter 70/30

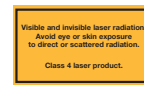
1001600

Digital Camera Adapter

1004665

Video Adapter f75 C-mount

1400319



Caution: Federal law restricts this device to sale by or on the order of a physician.

MERIDIAN RANGE OF PRODUCTS

MICRORUPTOR V: Nd:YAG Laser

MERILAS 532α: Green Laser

Photocoagulator

Your distributor:

MERIDIAN

Bierigutstrasse 7

CH-3608 Thun, Switzerland

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Fax +41 (0) 3333 4 1119

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