mrQ supine

A revolution of Nd:YAG treatment

your laser specialist

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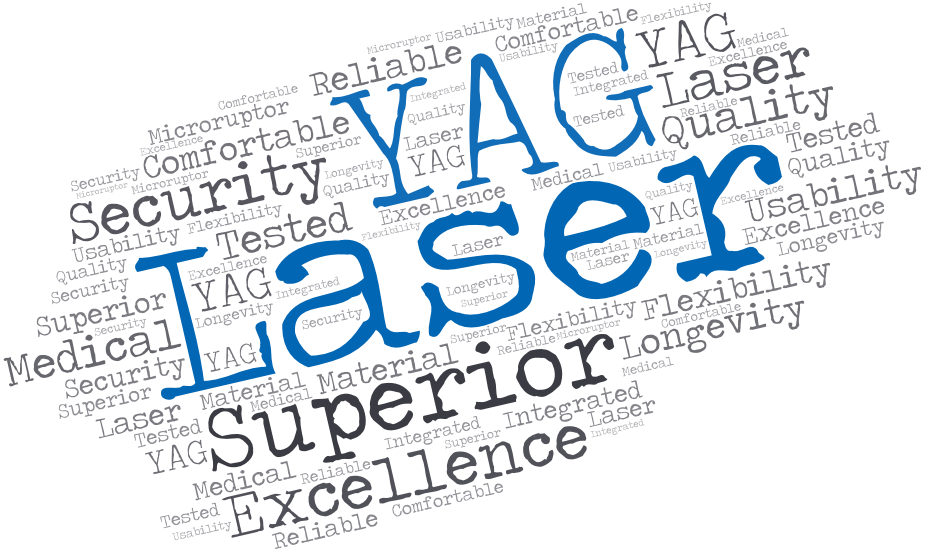
BEYOND A HISTORICAL NAME

Following the Microruptor's legacy, Meridian's MR Q supine has been designed to treat patients in supine position



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SUPERIOR QUALITY & LONGEVITY

Meridian Medical MR Q supine is a fully-featured and integrated Nd:YAG laser combined with renowned European precision optics. The high-grade aluminum mono-block laser housing gives a unique solid feeling.

The MR Q supine features a super gaussian mode laser profile. Its performance and accuracy provide excellent laser treatments. The MR Q internal power meters monitor the energy delivered to enhance patient safety.

The MR Q supine laser cavities are tested under severe conditions, demonstrating outstanding performance of over 600’000 shots.

USABILITY

The MR Q supine is a fully-featured and powerful Nd:YAG, designed to treat patients in supine position, ideal for operation theatres.

The ergonomic 0 – 210° tiltable Haag Streit Binoculars improve the surgeons’ comfort and provides an unparallel visual quality.

With digitally controlled anterior and posterior offset, MR Q supine provides unique safety features at every start.

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SAFETY

The electronically controlled laser movements allow precisely position the laser. The wheels are automatically locked when the laser is in operation.

Thinking in a hospital's environment, the MR Q key has been replaced by an electronic keypad with a 4 – pin access code.

The electronically controlled offset allows the surgeon to control the laser disruption precisely, emitting audible alarms when the anterior offset is selected, minimizing the risk of erroneous offset selection.

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FLEXIBILITY & COMFORT

The supine treating position is ideal for paediatrics patients and those unable to sit on a slit lamp. The MR Q supine offers the surgeon a perfect ergonomic laser interaction and makes it easier to handle patients under sedation, reducing stress on patients, doctors and theatre staff.

The MR Q supine will work on any existing operating table with a headrest, offering with a special fixture for very young patients. Its versatility is designed to cater for any operating theatre requirement.

OPTIMIZE YOUR WORKFLOW

If you have the practice space and are looking for a differentiating factor, the MR Q supine will provide you with a fantastic spa-like device to pamper your patients.

The MR Q supine improves your interaction with laser and patient in a more ergonomic way.

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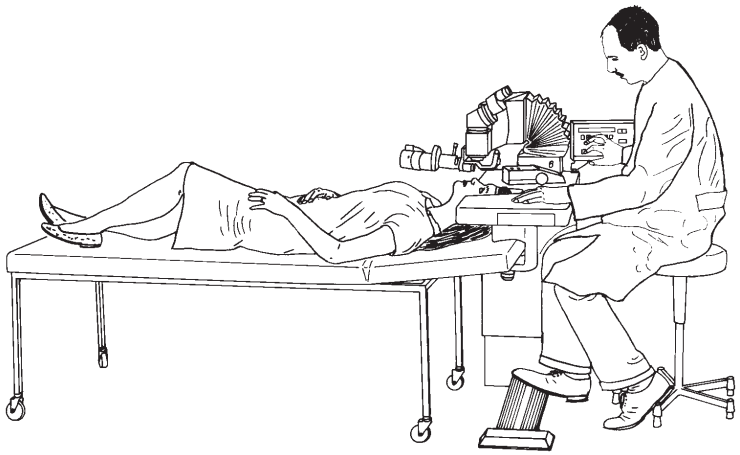

LASER EXCELLENCE

The history of Meridian AG, now showing up as Meridian Medical Group, and the history of the medical Nd:YAG laser are closely connected. The Microruptor II, developed by Meridian engineers and Prof. Dr. Franz Fankhauser († 2020), changed the way of many ophthalmology treatments.

New technology is continuously developed and patented by our development engineers. We select and integrate the best Swiss and European laser components to ensure the highest quality and long-term reliability.

We use tested and reliable best practices in engineering and integration, ensuring our systems' highest performance. Our highly skilled and experienced staff works to deliver the service and results our customers deserve and have come to expect.

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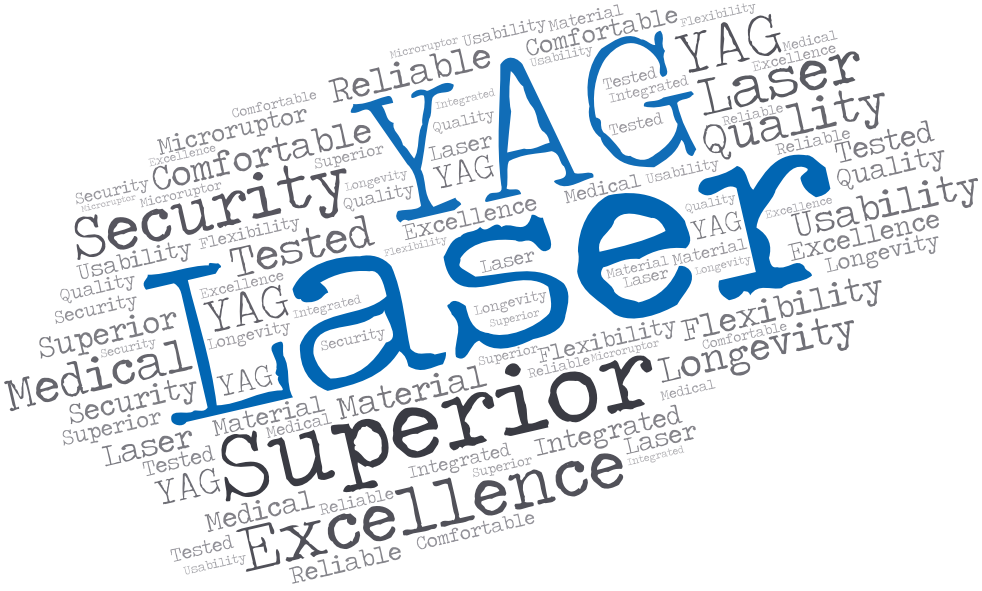
TIPS FOR YOUR LASER

- Yearly maintenance service assures the optimal performance of your laser
- Follow the safety advice of the manufacturer and your regulatory body
- Only use the laser as described in the IFU

CLINICAL INDICATION

For posterior capsulotomy and iridotomy.



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STANDARD ACCESSORIES

- Laser safety sign
- Safety goggles
- Dust cover

OPTIONAL ACCESSORIES

- Foot-switch
- Single port beam splitter
- Co-observation tube
- Adapter for ½” digital camera

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ND:YAG TREATMENT GUIDELINES*

These guidelines have been prepared following industry standards Nd:YAG treatments, the use of the laser and its parameters are responsibility of the treating ophthalmologist.

Procedure	Power (mJ)	Offset	Pulses
Posterior Capsulotomy (with lens)	0.9 – 2.0	Posterior 200	Single
Posterior Capsulotomy (w/o lens)	1.4 – 2.5	Posterior 200	Single
Anterior Capsulotomy	0.5 – 1.0	0	Single
Peripheral Iridotomy	3.0 – 5.0	Posterior 100	Double-Triple
Peripheral Iridotomy (plateau iris)	5.0 – 7.0	Posterior 200	Triple
Vitreous Strands (anterior)	2.0 – 3.00	Posterior 100	Single
IOL Surface Cleaning	0.3	Anterior 100	Single

* Suggested parameters for the Nd:YAG treatment from Lindstrom, R. (1986) Review of the clinial literature of the use of the Nd:YAG laser for posterior capsulotomy. JCRS Vol 12. March, 1986

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BINOCULARS IN FOCUS

Each user must have the oculars set for their personal refraction, this way the laser will be in parfocality with the aiming beam and retina. Defocused slit lamp may result in unpredictable laser burns.

PEDIATRIC TREATMENT

Adjust the power accordingly, posterior capsules in infants and young patients are softer, requiring a greater energy to cut the tissue.

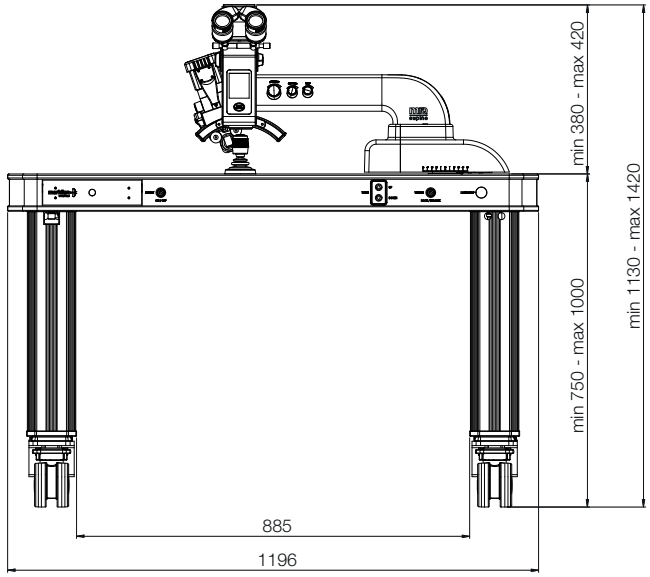
ABOUT THE OFFSET

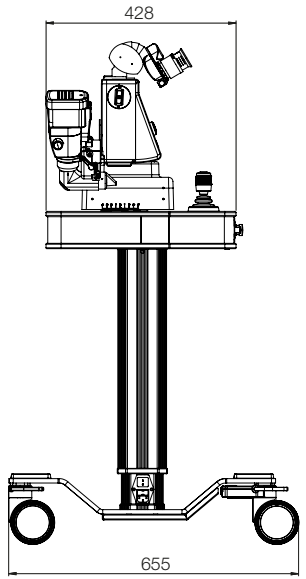
Laser energy travels towards the point of emission (to the front of the eye), when shooting on zero-offset the risk of lens pitting increases. Always check the offset before perform any treatment.

TECHNICAL SPECIFICATIONS*

Device description	MR Q supine | supine
Laser source	Q-switched Nd:YAG
Wavelength	1064 nm
Energy range	0.3 – 12 mJ (in single pulse mode), 32 mJ max (in triple pulse model)
Pulse duration	4 ns (typical)
Treatment spot size	< 10 µm
Burst mode	1,2 or 3 pulses
Cone angle	16°
Treatment offset	Electronically controlled, anterior: 150 µm, 300 µm; posterior: 0 µm, 100 µm, 200 µm, 300 µm;
Slit lamp	CS0 9800 LED Zeiss type
Laser repetition rate	up to 2.5 Hz
Aiming beam	Red Diode: 635 nm (dual)
Triggering	Joystick (footswitch optional)
Magnification	(6 ×; 10 ×; 16 ×; 25 ×; 40 ×)
Cooling system	Air cooled
Dimensions H ×W ×D	118 cm × 119.6 cm × 70.6 cm 47 in × 47 in × 28 in
Weight	143 kg
Power requirements	220 – 240 VAC 50/60 Hz
Power rating	520 VA
Patient position	supine

* All technical specifications are subject to change without notice. In accordance with the international laser safety standards: IEC 60601-1:2005 + A1:2012, EN 60601-1-2:2015, MDD 93/42/EEC.





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