

merilas

shortpulse **577**

YELLOW LASER PHOTOCOAGULATOR

FOR ALL RETINAL
PHOTOCOAGULATOR
PROCEDURES



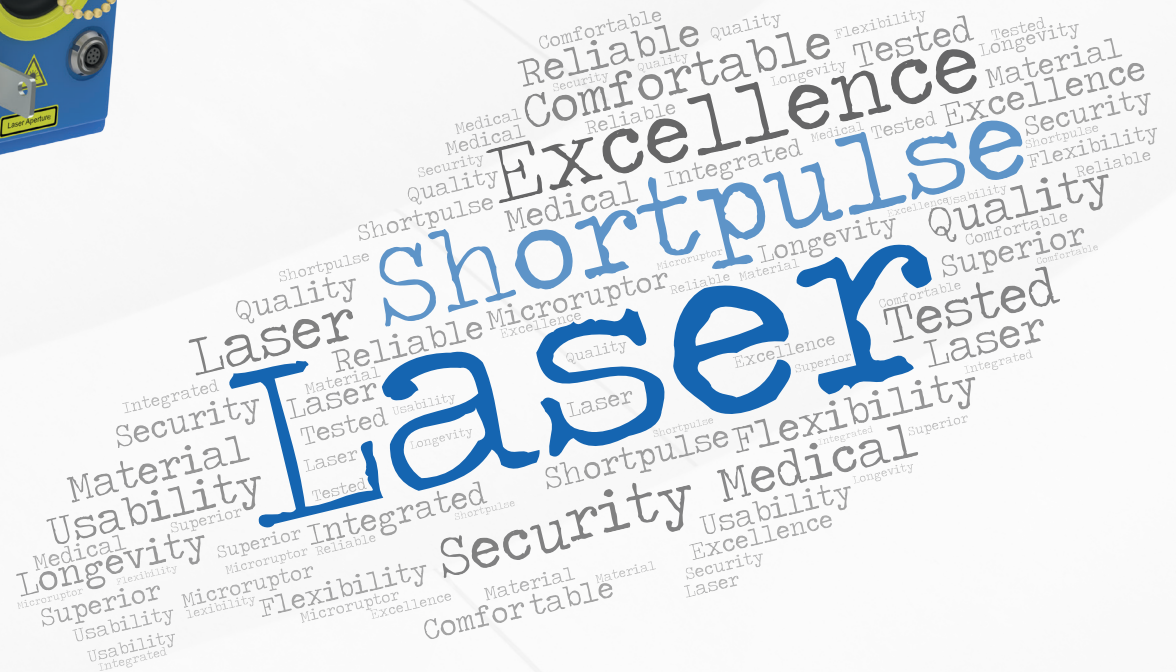
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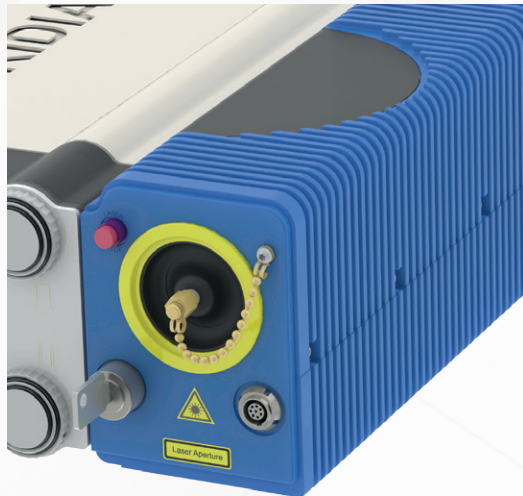
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PROVEN RELIABILITY - UNIFIED LOOK

The Merilas 577 shortpulse ophthalmic laser photocoagulator with dual treatment modality: subthreshold or continuous wave delivery mode.

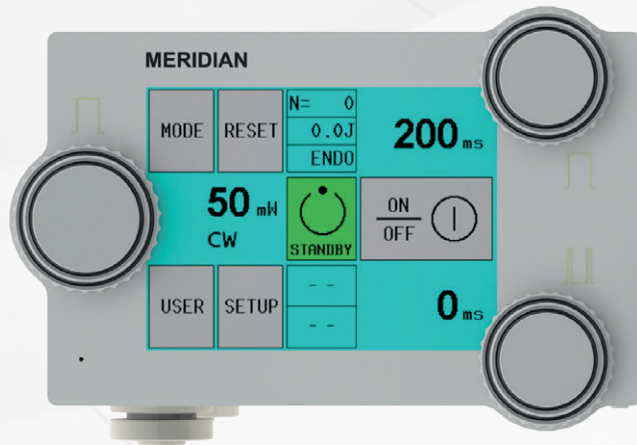




HIGH QUALITY & LONGEVITY

The Merilas 577 shortpulse is cooled by an innovative thermal electrical cooling system. No ventilation slots are required. This ensures that no dust can penetrate into the interior of the laser.

The housing of the laser head is made of a high grade aluminium giving the robust solid feeling of Meridian products while moving the laser, and protects the sensitive parts of the laser.



USABILITY

The Merilas lasers ensure efficiency with their fast start-up.

The detachable touch display with glass technology ensures flexibility and cleanliness at the workplace. The user interface is easy to use thanks to its intuitive design. Due to our innovative thermal-electrical cooling system there are no disturbing noises or air turbulences.

All Merilas lasers impress with their small and compact size and are easy to transport. Each laser comes with a robust and practical transport case.



SAFETY

The separate menu modes for easy identification of continuous wave and shortpulse mode ensure easy mode selection.

Our colour-coded laser coupling to match the wavelength output makes it easy to assign the laser delivery systems. Auto Key connector: The automatic recognition of the laser delivery device must be confirmed by the user.

Our technicians can support you via remote service in case you need assistance. This function allows fast and easy troubleshooting.

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FLEXIBILITY & COMFORT

Our range of slit lamp delivery systems have been designed to be compatible with a wide range of slit lamp types, either Haag-Streit or Zeiss. The Merilas lasers can be used with laser indirect ophthalmoscope and endoprobes.

Our technicians can support you via remote service in case you need assistance. This function allows fast and professional troubleshooting.





CLINICAL INDICATION

Photocoagulation:

Retinal photocoagulation, panretinal photocoagulation (PR) and intravitreal endophotocoagulation of vascular and structural abnormalities of the retina and choroids, including:

- Proliferative and non-proliferative diabetic retinopathy
- Choroidal neovascularisation
- Branch retinal vein occlusion
- Age-related macular degeneration
- Retinal tears and detachments
- Retinopathy of prematurity

Iridotomy:

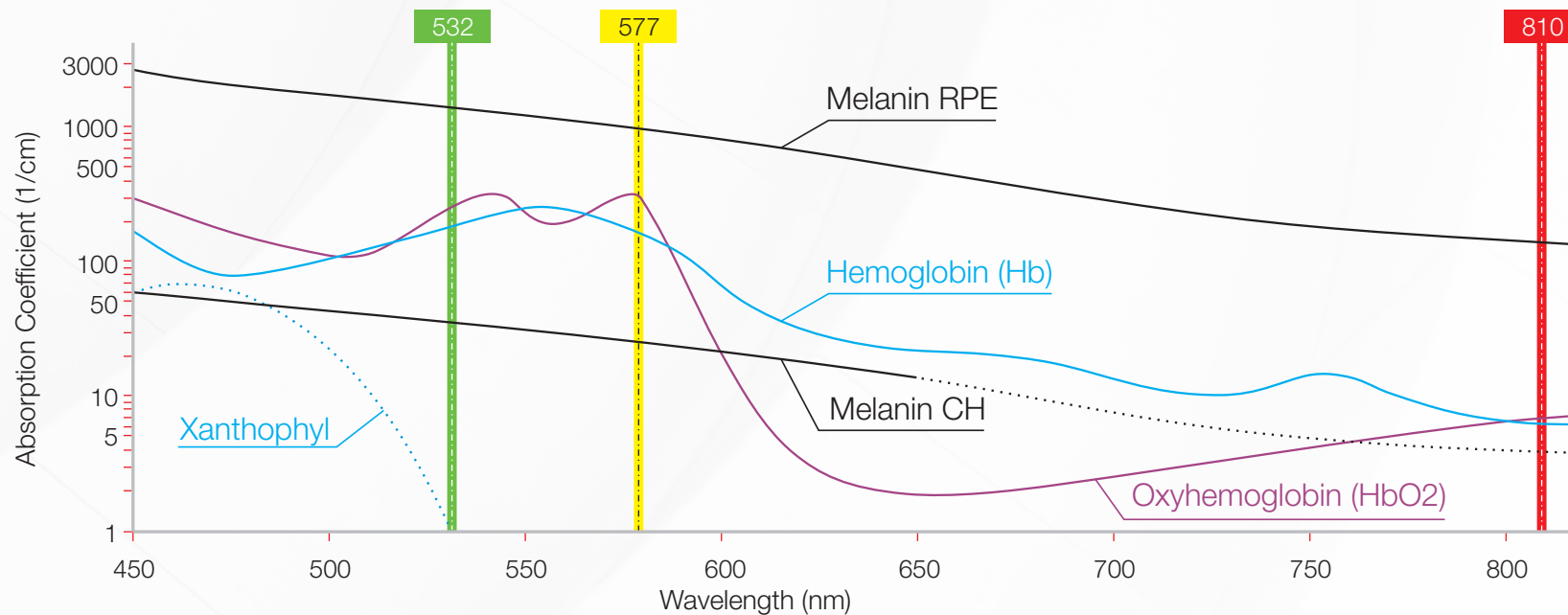
Iridotomy in angle closure glaucoma

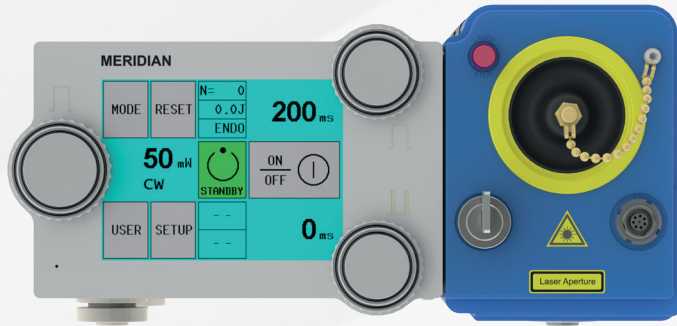
Trabeculoplasty:

Trabeculoplasty in open angle glaucoma

WAVELENGTH BENEFITS – WHY 577 NM?

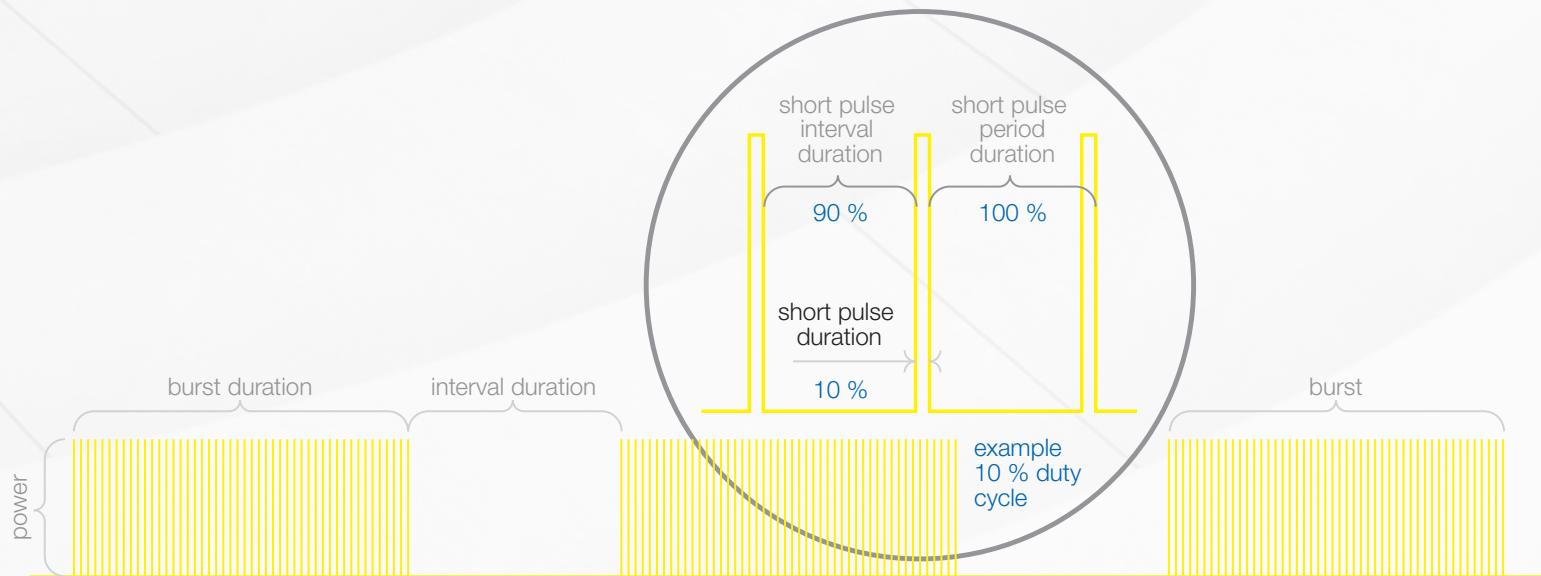
- The yellow wavelength 577 nm causes less retinal burns and therefore less scotoma formation
- This gives the physician better control over the interaction between the laser beam and tissue
- The yellow light is not absorbed by xanthophyll, making it ideal for macular treatments
- Because it also produces less scattered light, it penetrates existing opacities better and reaches the tissue more precisely





THE PRINCIPLE OF SHORTPULSE

- In shortpulse mode a pulse duration consists of many alternating short bursts and intervals.
- In contrast to the continuous wave (CW) mode, the tissue is not heated very much in the shortpulse mode – tissue is treated more gently.



STANDARD ACCESSORIES

- Foot switch
- Transport case




OPTIONAL ACCESSORIES

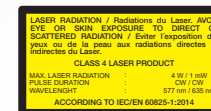
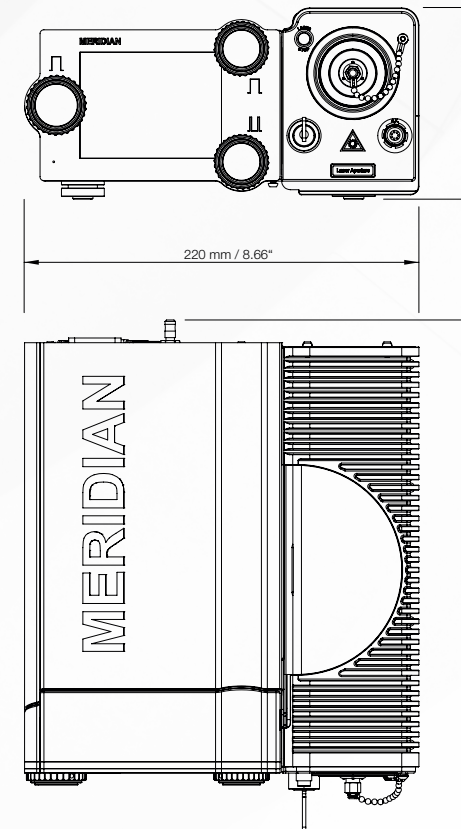
- Slit lamp adapters
- Laser indirect ophthalmoscope
- Safety filters (passive & active)
- Endoprobes
- Safety goggles
- External ventilator



TECHNICAL SPECIFICATIONS*

Device Description	Merilas 577 shortpulse 
Safety Classifications	Class 4
Wavelength	577 nm
Power Output	50 – 2500 mW
Pulse Duration	CW (continuous wave, pulsed) 1 ms – 5 000 ms
Pulse Interval	1 ms – 5 000 ms
Sp-Mode Settings	Shortpulse (continuous wave, chopped) Shortpulse duration: 0.01 – 9.5 ms Shortpulse interval: 0.1 – 9.5 ms
Cooling	TEC
Aiming Beam	Diode 635 nm, (0-1 mW in 9 Steps)
Dimensions	25.0 × 22.0 × 10.5 cm
Total Weight	7.0 kg
Power Requirements	100 – 240 V, 50/60 Hz, 2 A max.

* All technical specifications are subject to change without notice. In accordance with the international general safety standards: IEC 60601-1:2005/AMD1:2012, IEC 60601-1-2:2014, MDD 93/42/EEC. The laser safety is in accordance with the international standards: IEC 60825-1:2014 and IEC 60601-2-22:2007/AMD1:2012.



your laser specialist

For more information please contact your Device Technologies representative.



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