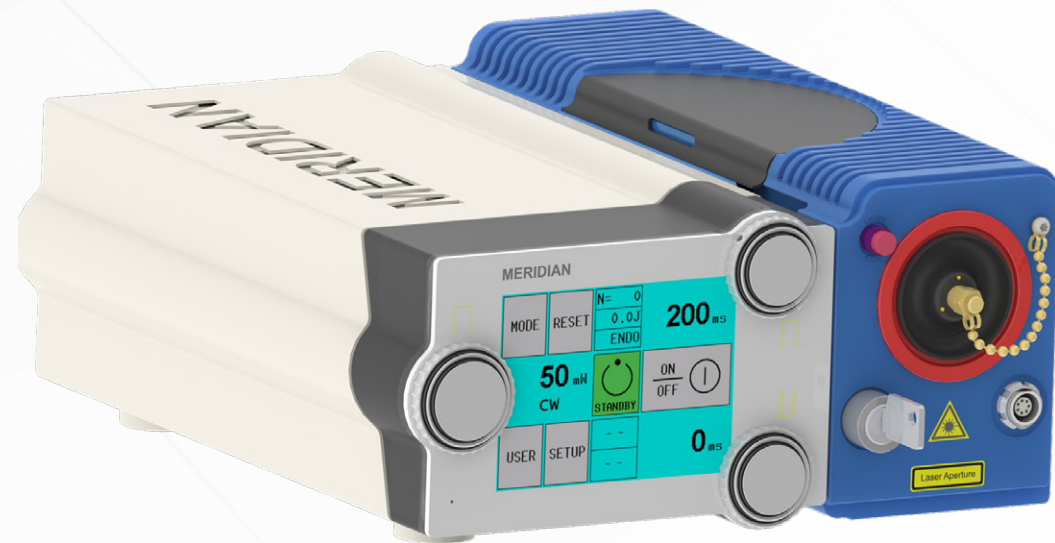


# merilas

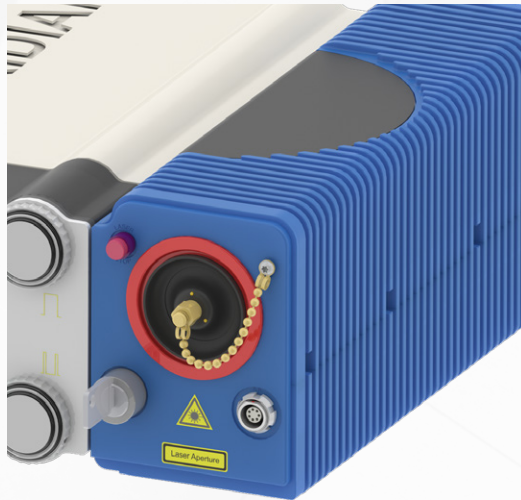
shortpulse **810**

## LASER THERAPY

FOR ADVANCED AND  
END-STAGE GLAUCOMA





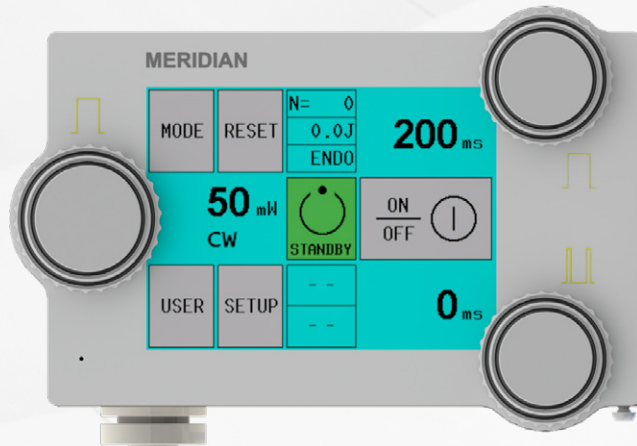


## HIGH QUALITY & LONGEVITY

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The Merilas 810 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 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

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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.

**merilas**

shortpulse **810**

## FLEXIBILITY & COMFORT

One laser: Two clinical applications (Glaucoma and Retina treatments).

Due to the small and compact design of the laser and its handy carrying case, the Merilas 810 shortpulse can easily be transported to other practices or clinics.

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



## LASER EXCELLENCE

The history of Meridian AG, now known as Meridian Medical Group, and the history of the medical Nd:YAG laser are closely connected. Meridian AG was already significantly involved in the development of the “Merilite” and in 2006, the first Merilas laser in the Merilas family was born.

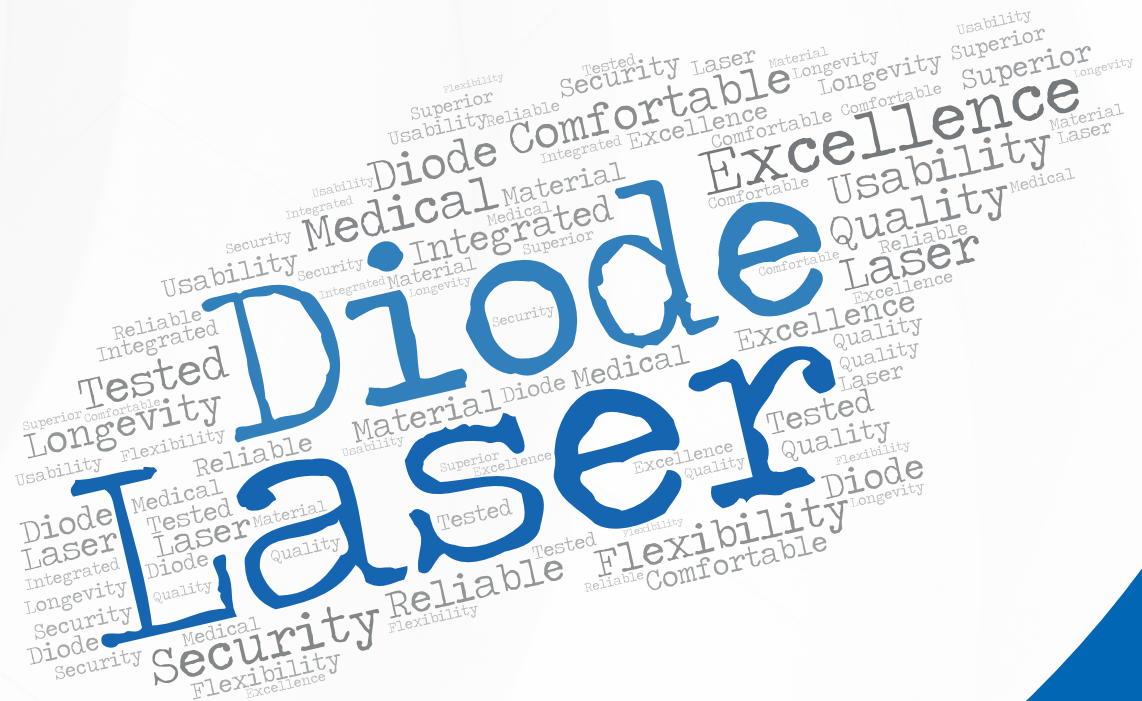
For the shortpulse lasers, new technology was developed and patented by our development engineers.

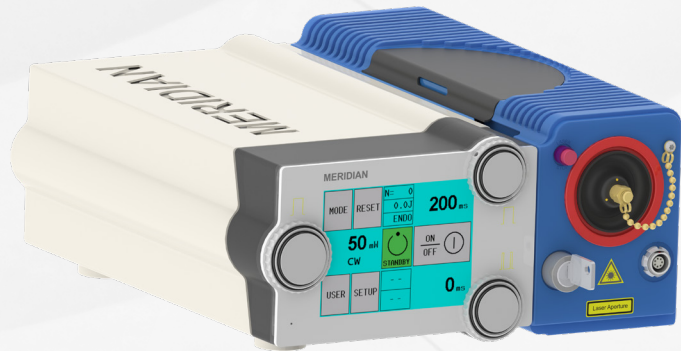
We select and integrate the top range Swiss and European laser components to ensure the high level of quality and long term reliability. We use tested and reliable best practices in engineering and integration, ensuring high level performance in each of our systems.

Our highly skilled and experienced staff work to deliver the service and results our customers deserve and have come to expect.

## TIPS FOR YOUR LASER

- Not using your laser over a long period of time will shorten its lifetime
- Store the laser in the supplied case if the laser is not used for a long time
- Regular cleaning ensures stable operation of the laser





## CLINICAL INDICATION

### Retinal Photocoagulation:

- Diabetic Retinopathy
- Central Serous Chorioretinopathy
- Diabetic Macular Edema
- Central/Branch Retinal Vein Occlusion
- Retinal Tears, Holes and Detachments

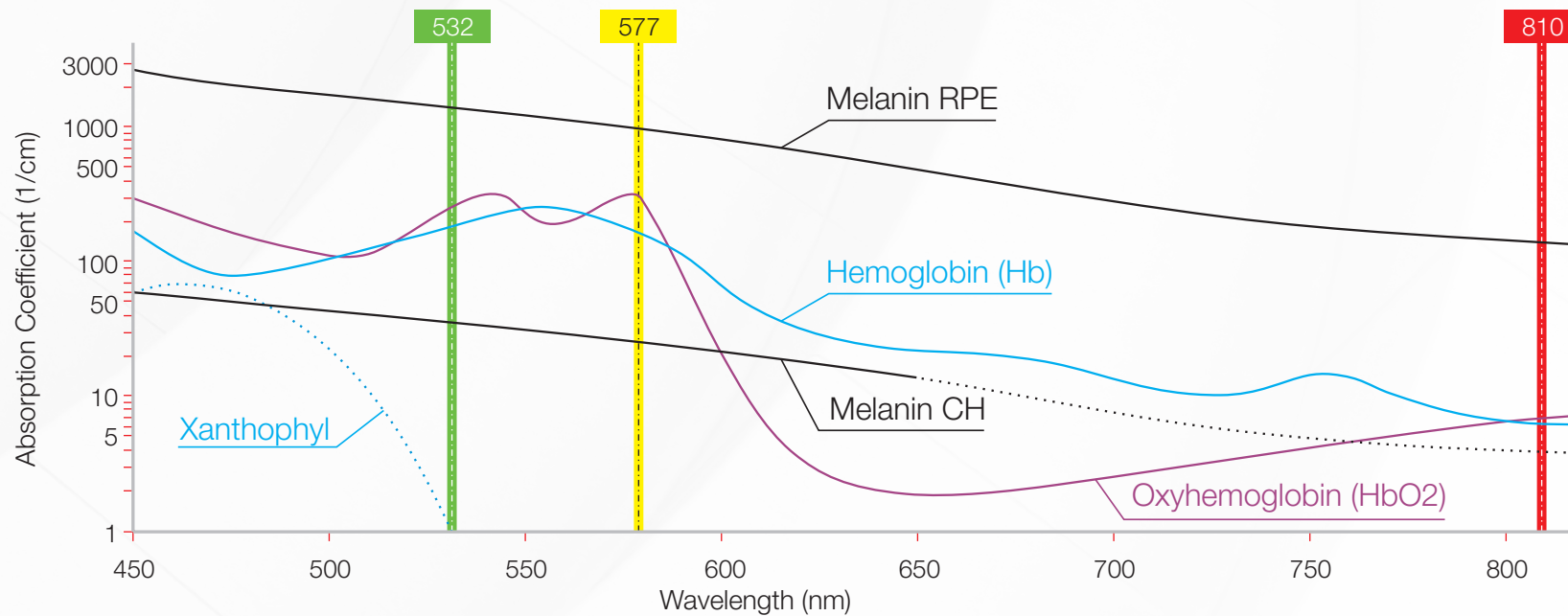
### Glaucoma:

- Cyclophotocoagulation

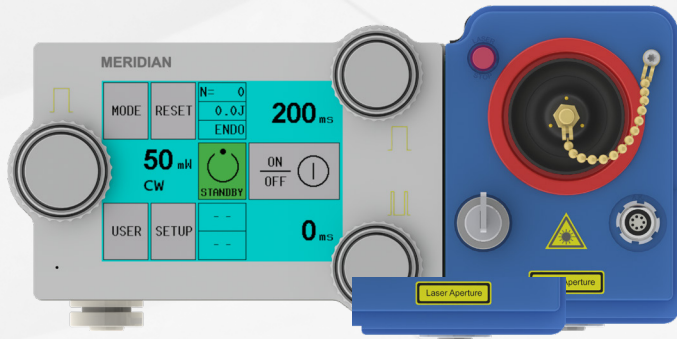


## WAVELENGTH BENEFITS – WHY 810 NM?

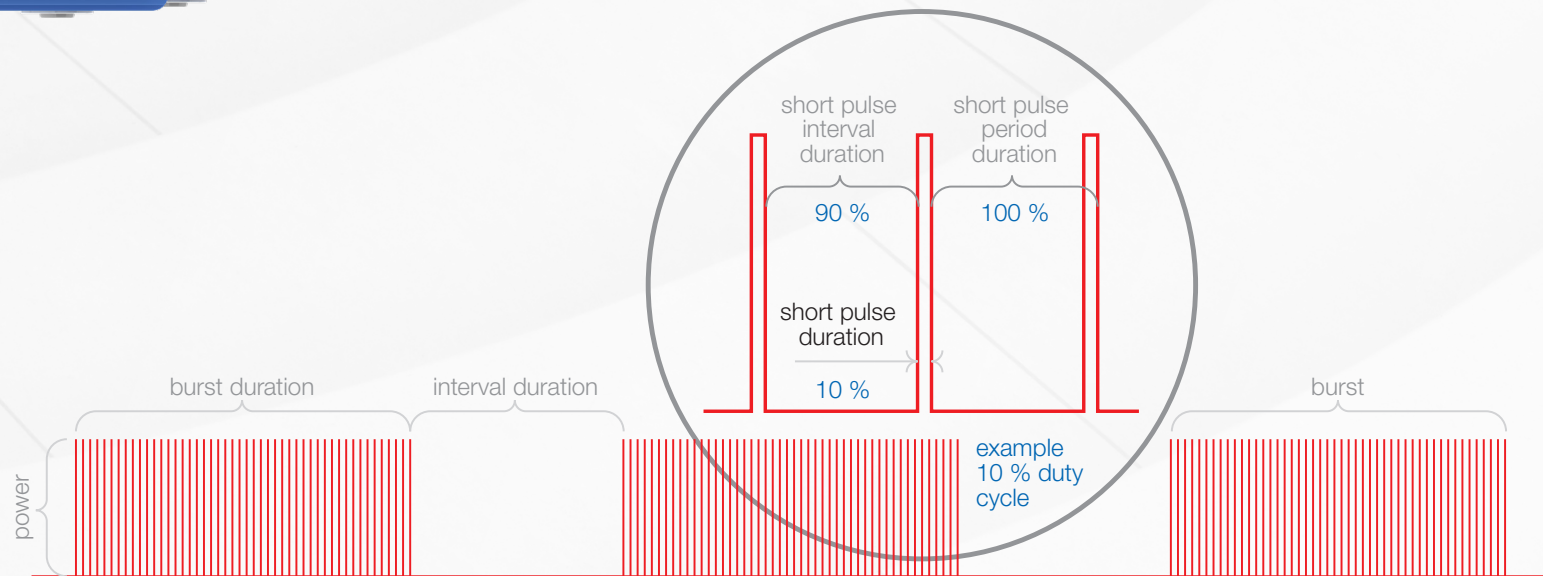
- The 810 nm wavelength is less absorbed by melanin and haemoglobin
- This wavelength has the advantage of penetrating the sclera and excessive haemorrhage



## 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

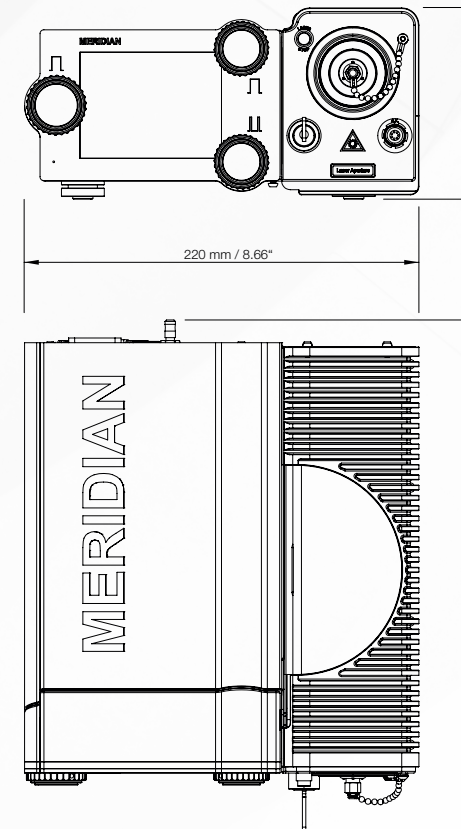
- Transscleral Cyclophotocoagulation probes for Glaucoma
- Other endoprobes
- Safety goggles



# TECHNICAL SPECIFICATIONS\*

Device Description	Merilas 810 shortpulse   
Safety Classifications	Class 4
Wavelength	Infrared (810 nm)
Power Output	50 – 3000 mW
Pulse Duration	CW (continuous wave, chopped) 1 ms – 10 000 ms
Pulse Interval	1 ms – 10 000 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.



**VISIBLE AND INVISIBLE LASER RADIATION**  
 Radiations du Laser visible et invisible. **AVOID EYE**  
 OR SKIN EXPOSURE TO DIRECT OR SCATTERED  
 RADIATION / Éviter l'exposition des yeux ou de la  
 peau aux radiations directes ou indirectes du Laser.

**CLASS 4 LASER PRODUCT**

MAX LASER RADIATION : 4 W / 1 mW  
 PULSE DURATION : CW / CW  
 WAVELENGTH : 810 nm / 635 nm

ACCORDING TO IEC/EN 60825-1:2014



your laser specialist

For more information please contact your Device Technologies representative.



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