

3 μm Lasers

For medical OEMs



LumIR Lasers 2800 Series

LumIR Laser's OEM 2800 Series mid-infrared fiber laser, standard at 2910 nm, opens new possibilities in medical laser treatment and surgery. It features robust architecture, single-mode beam quality and flexibility to customize the laser pulses, all unprecedented at this wavelength range.

Main applications



Aesthetics



Surgery

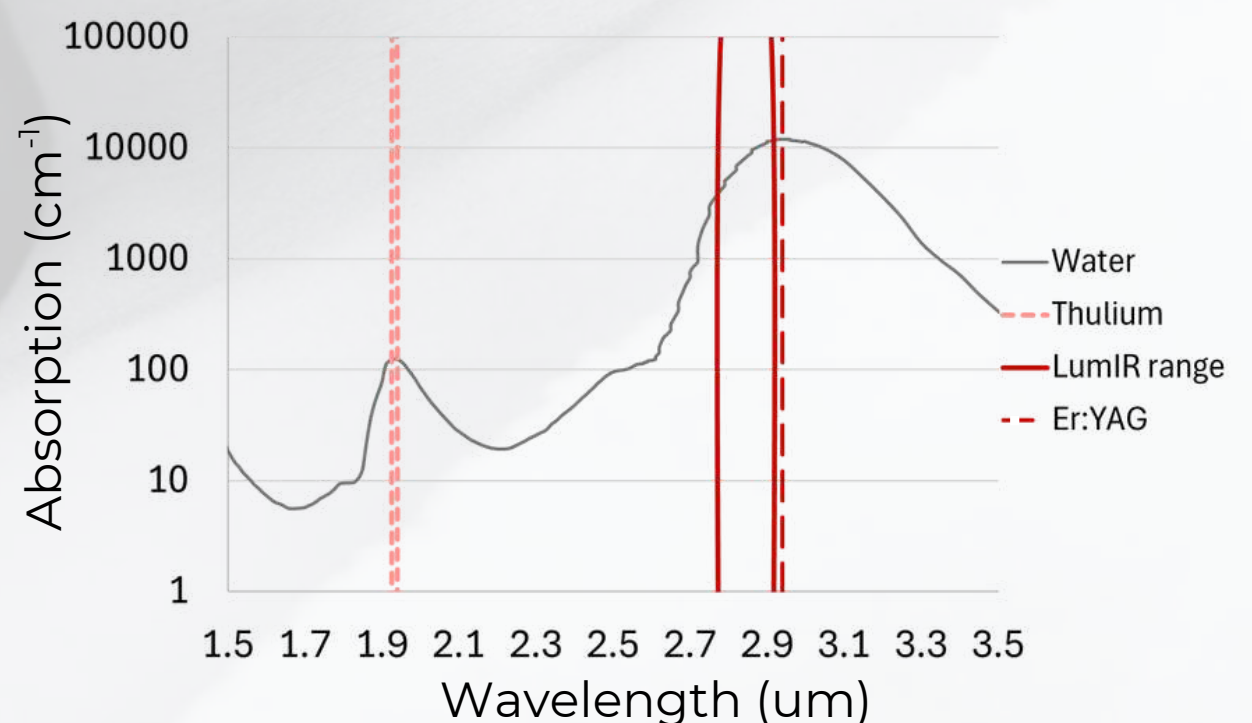


Ophthalmology

Key Features

- 10 W
- High absorption in water (2910nm)
- Up to 5 kHz repetition rate
- Real time power modulation
- Single-mode output

Absorption in water



Optical specifications

Wavelength	2910 nm (Standard) 2780 - 2940 nm (Optional)
Average or peak power	10 W
Optical modulation	CW to 5 kHz
Pulse duration	>50 us
Typical beam quality (M^2)	<1.3
Output beam delivery	Single-mode fiber output NA 0.12 (Standard) Collimated 2 mm FWHM
Linewidth	<1 nm
Polarization	Random

Requirements

Supply voltage & current	15.5 V, max 13 A
Power consumption	< 200 W
Modulation input	0-5 V analog 10 kOhm
Interlocks/trigger	TTL
Cooling type	Water cooling (Standard) Direct cooling (Optional)
Cooling temperature & power	25 deg. C, 200 W

Mechanical dimensions & weight

Delivery cable length	1.5 m (Standard) 0.5 - 3 meters (Optional)
Module dimensions L x W x H	235 x 235 x 86 mm
Total weight	4.5 kg

Notes:

Output power stability

