

3 μm Lasers

For sensing & security

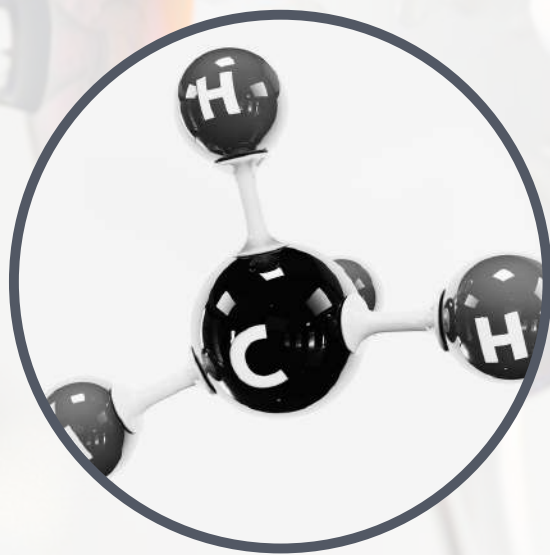
LumIR Lasers 3200 Series

LumIR Laser's 3200 Series mid-infrared fiber laser opens new possibilities in a wide range of sensing applications. It features robust architecture, single-mode beam quality and flexibility to customize the laser pulses.

Main applications



Defense



Sensing



Security

Key Features

- 5 W
- High absorption CH_4 NH_3
- Up to 5 kHz repetition rate
- Real time power modulation
- Single-mode output

Optical specifications

Wavelength	2250 nm (Standard) 3100-3300 nm (Optional)
Average or peak power	5 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 10 mm
Total weight	5 kg

Notes:
