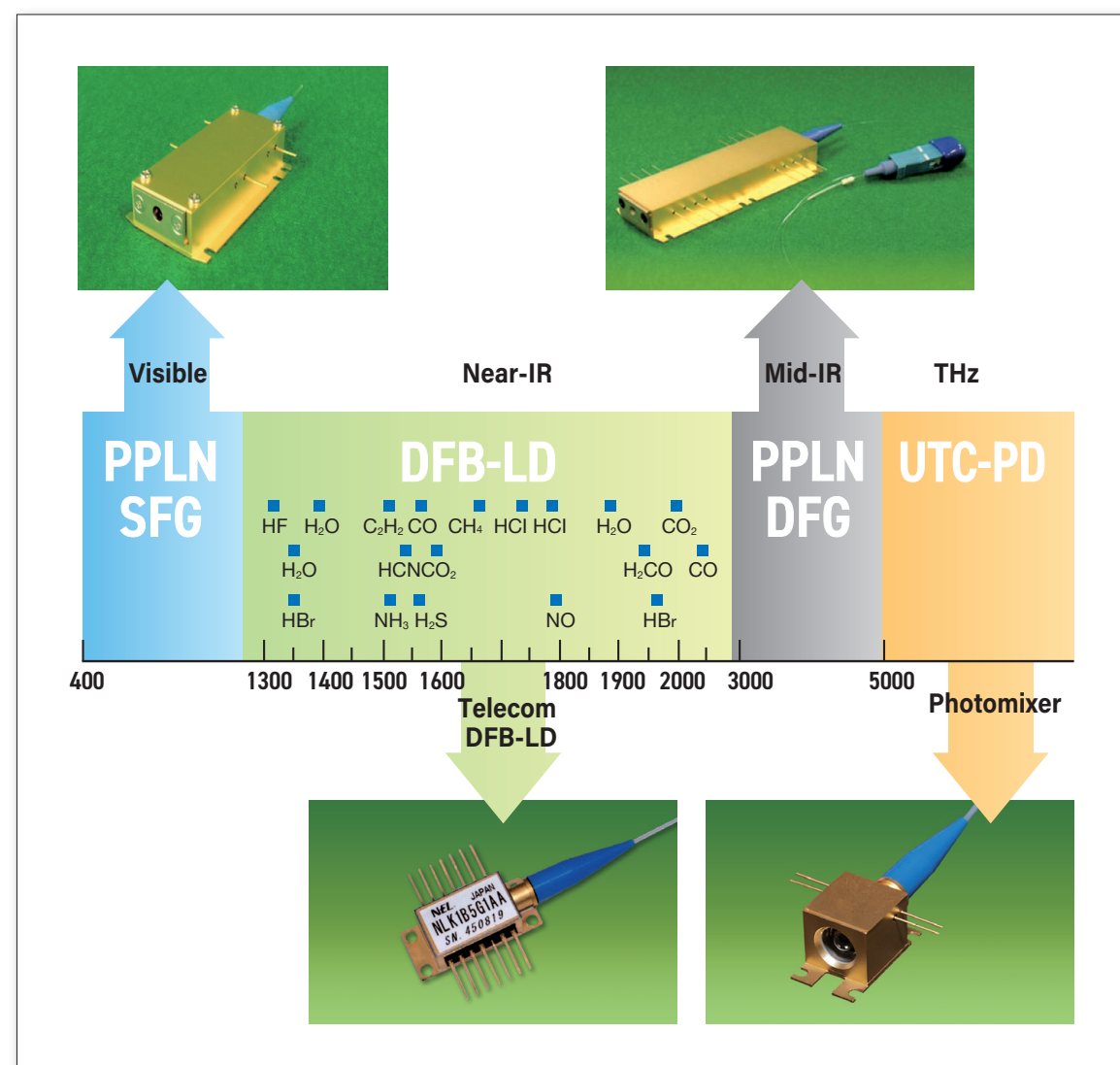


Laser lineup



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Sensing application website

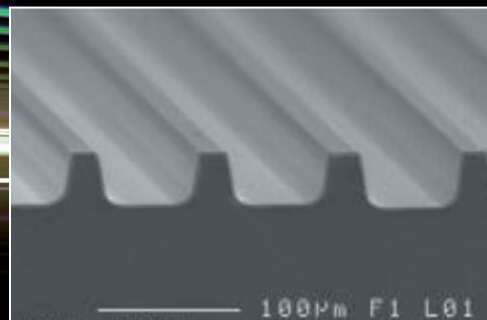
January, 2026

PPLN Wavelength Conversion Device

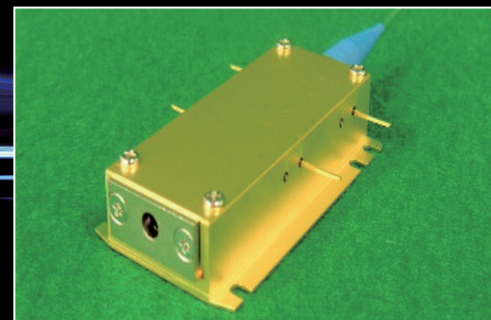


PPLN Waveguide & Module

Custom design tailored to your laser system is available.



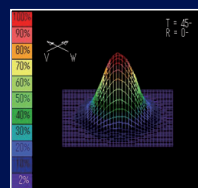
Waveguide



Module

Characteristics

- Periodically Poled Zn-doped Lithium Niobate
- Direct bonding technique
- High resistance to photo-refractive damage
- High efficiency
- High beam quality



Application

- Atomic cooling
- Quantum cryptograph
- Fiber comb
- Telecom

Characteristics

- TEC integrated
- Lens coupling

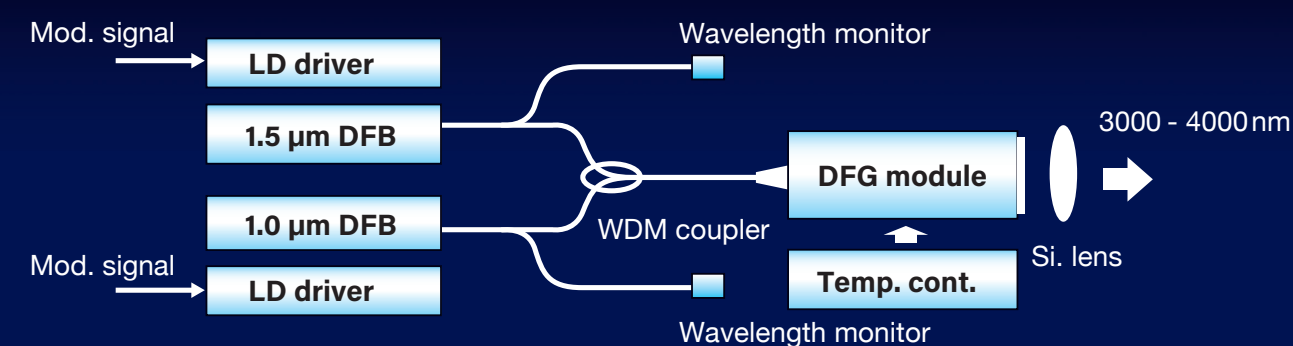
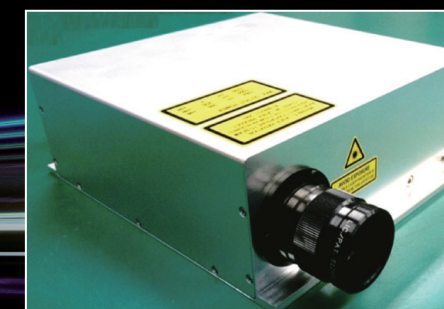
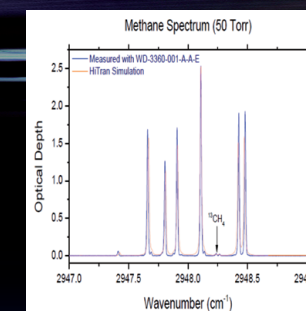
Mid-IR 3 micron Laser

Application

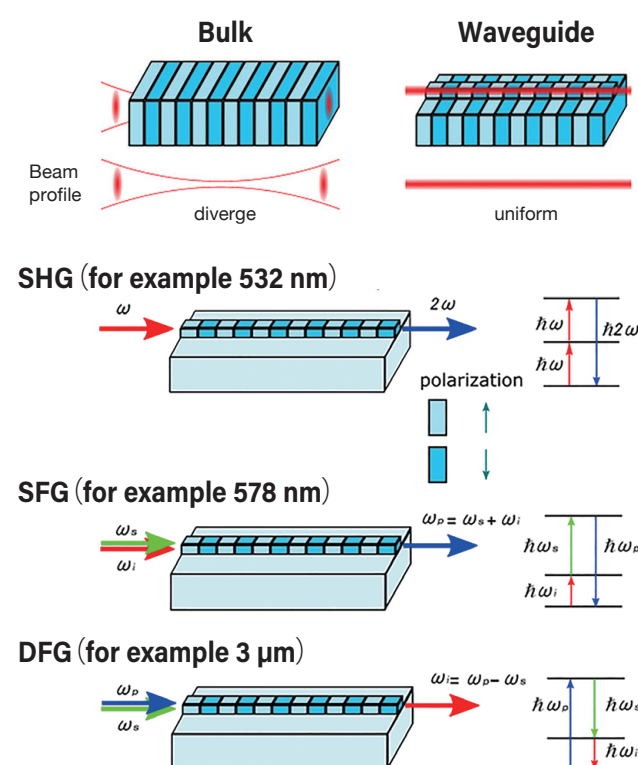
- CH₄ monitoring
- Trace gas sensing

Characteristics

- Single mode
- Tunable ~26nm (22cm⁻¹)
- Analog modulation

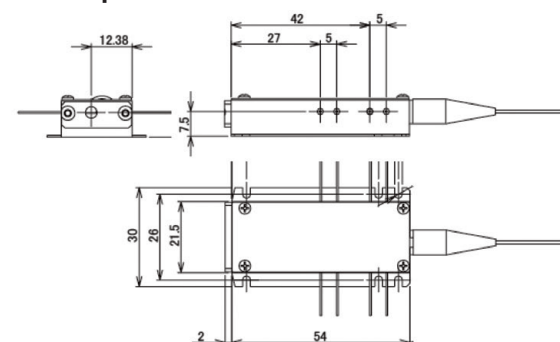


Principle

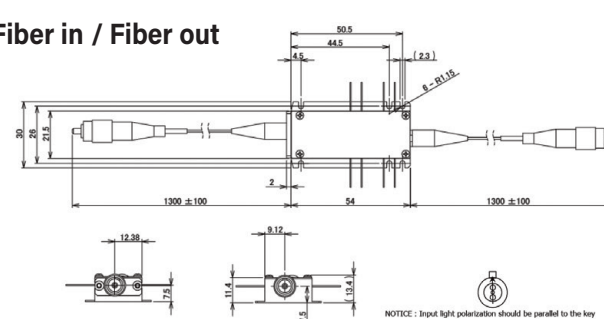


Outline dimensional diagrams (mm)

Fiber in / Space out



Fiber in / Fiber out

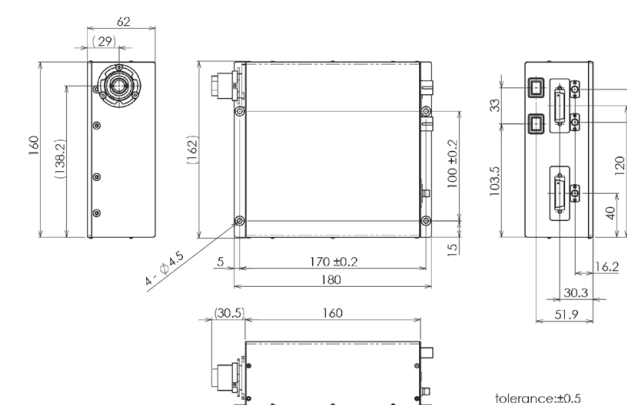


Mid-IR laser

Item	Specification
Model	WD-XXXX*-001-A-A-E
Mode of operation	CW
Wavelength	3000 - 4000 nm Pump : 1.0 μm, Signal : 1.5 μm
Maximum output power	50 μW
Tuning range per one unit	26nm (22cm ⁻¹) @3360 nm LD's temperature tuning is required
Linewidth (FWMH)	< 30 MHz
Beam mode	TEM00
Power supply	5 VDC
External modulation input	0 - 1 V (Analog)
Modulation bandwidth	Up to 100 kHz
Dimensions (W x D x H)	Laser head : 162 x 200.5 x 62 (mm) Laser Controller : 130 x 130 x 50 (mm)
Interface	RS-232C serial interface (USB type-B)

* XXXX is wavelength in nm unit.

Laser head



Laser controller

