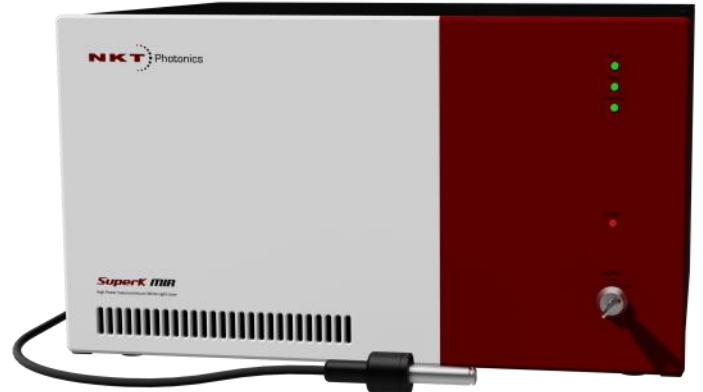


SuperK MIR

Mid infrared supercontinuum fiber laser

- 900 - 4200 nm continuous spectrum
- Output power > 450 mW
- All colors in one collimated beam
- Room temperature operation
- Operation at the press of a button
- Compatible with FTIR spectrometers



Based on NKT Photonics proven supercontinuum platform, the SuperK MIR supercontinuum laser offers the same benefits as our visible and near-infrared sources with an output in the mid-infrared.

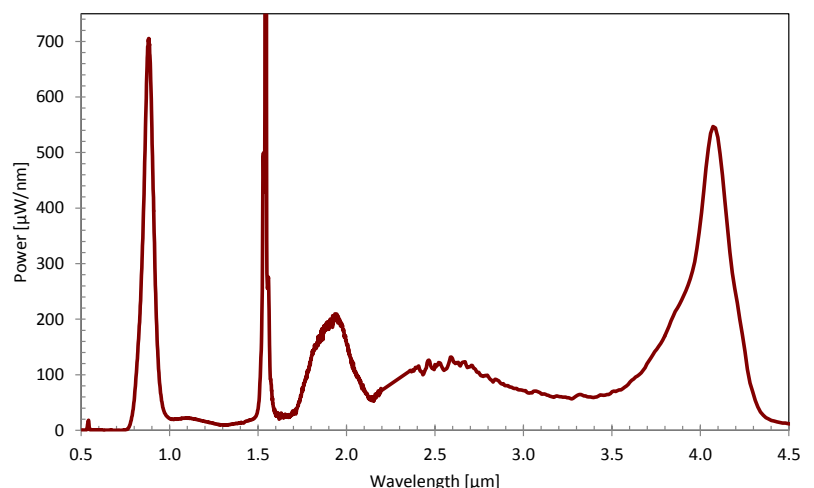
The SuperK MIR delivers more than 450 mW of continuous light from 0.9 to 4.2 μm . The source features a monolithic all-fiber architecture ensuring stability and maintenance-free operation over thousands of hours. The mid-infrared light is fiber delivered through a broadband collimator, offering great flexibility and easy use.

Like other sources from NKT Photonics, the laser is ready as soon as you switch it on and is easy to operate through NKT Photonics unified laser control software, CONTROL.

The laser is compatible with FTIR spectrometers for fast detection and short integration time across the entire spectrum.

Released for sales in Europe, Asia, and Australia.

Typical output spectrum



Applications

- Characterization of optical components
- Mid IR Microscopy
- Gas spectroscopy
- Combustion Spectroscopy
- Environmental sensing
- Standoff detection



Specifications

Optical

Repetition rate	2.5 MHz
Spectral coverage	900 - 4200 nm
Total power	> 450 mW
Total power stability	± 1.0 %
Polarization	Random
Beam output	Gaussian, single mode
Typical M ² (>2500 nm)	< 1.1
Output options	Reflective Collimated Divergent (upon request)
Length of output fiber	1.5 m
Beam diameter	~1.5 mm at 2300 nm ~3 mm at 3000 nm ~3 mm at 3000 nm
Beam divergence (over 2500-4500 nm)	< 2 mrad

Mechanical/Electrical

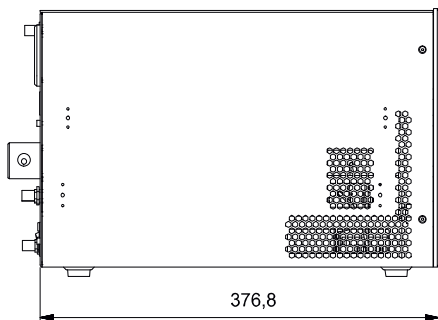
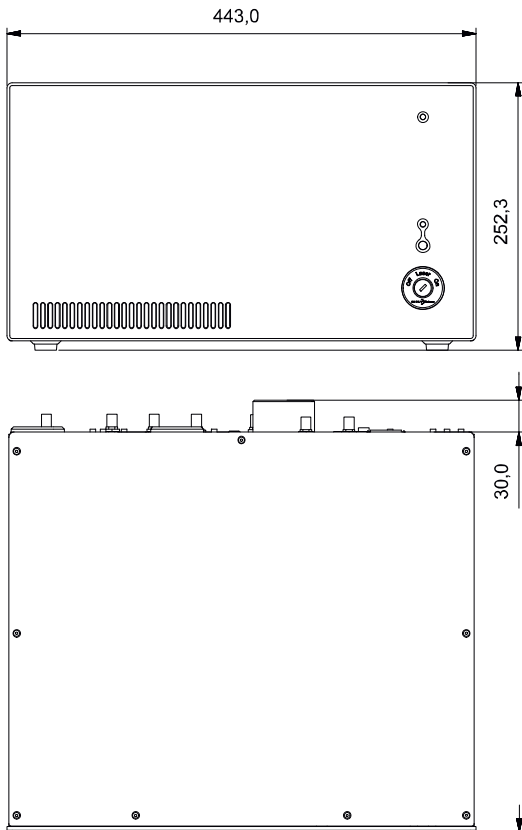
Computer interface	USB 2.0
Operation voltage	100-240 VAC 50/60 Hz
Power consumption	<100 W
Door interlock connector ¹	2-pin LEMO
External bus interface	2-pin LEMO
System cooling	Air cooled
Operation temperature	+18 to +30°C
Storage temperature	-10 to +60°C
Dimensions (WxHxL)	440x243x380 mm ³
Weight	18 kg

1) The SuperK MIR is a Class 4 laser and is required to be connected to a door interlock/circuit

The SuperK MIR is produced under our UK quality management system certified in accordance with the ISO 9001:2008 standard .



SuperK MIR_170621



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