

Title	Draft of datasheet for long wavelengths UniMir
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Title: 10µm-ish to 14µm-ish and 17µm-ish to 19 µm-ish wavelength QCL lasers

Wavelength:

These lasers emit at room temperature at any wavelength between ~10µm and ~19µm (except at ~15 and ~16µm). Please contact your mirSense representative to discuss the wavelength range you are interested in.

Power:

The output power is a few mW and CW operation is available up to ~17µm wavelength. Pulsed operation is available from ~10 to ~19µm.

Tunability:

You can order DFB lasers (with a linewidth <100MHz in CW operation) that have a tunability of a few wavenumbers or you can order Fabry-Perot lasers with more power and a broader emission spectrum.

Beam quality:

The lasers are supplied inside a HHL-package with a collimation lens (TM00 beam quality and divergence <10mrad).

Driver:

For pulsed operation, mirSense supplies the driver and software (up to MHz repetition frequency, down to a few tens of ns of pulsewidth and tunability in temperature available). Please contact your mirSense representative to discuss how you want to operate the laser.

Cooling:

You can order a water-box to be connected to water in your lab (typically for wavelengths of 14µm and above).

