about us

(https://www.norcada.com/lasers/)

DFB lasers

(https://www.norcada.com/lasers/laserproducts/)

FP lasers

(https://www.norcada.com/laser options/)

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Laser Product Gallery

Norcada specializes in single-mode distributed feedback (DFB) semiconductor diode /lasers/nඎ∞/s in the near-IR and mid-IR spectrum regions for gas sensing and Tunable-Diode-Laser-Absorption-Spectroscopy (TDLAS) applications.



(https://www.norcada.com/lasers/wpcontent/uploads/2019/03/NL2327-Bsm-e1551918336793.jpg)

Butterfly style packaging with fiber-coupled output

(https://www.norcada.com/lasers/wpcontent/uploads/2014/12/TO66Ae1504038870434.jpg)

Norcada mid-IR laser in TO style package with collimation lens

Near-IR DFB Lasers

Our near-IR DFB lasers cover the wavelength range from 1500nm to 1670nm. The near-IR DFB lasers are the most cost effective laser sources for TDLAS applications. Available wavelengths include:

1512nm for NH3 1576nm for H2S 1578nm for CO. CO2

1654nm for CH4

Other wavelengths are also available on custom request. Please contact us (https://www.norcada.com/lasers/?page_id=172) for further details.

Mid-IR DFB Lasers

semiconductor DFB mid-IR lasers are fabricated using InGaAsSb/AlGaAsSb quantum well structures and the material system is ideally suited for the wavelength region of 1900-3600nm. Mid-IR DFB lasers offer significantly higher sensing sensitivity for many gas species that are of interest to industrial safety monitoring applications. Currently stocked wavelengths for our mid-IR DFB lasers include:

1854nm for H2O

2004nm for CO2

2009nm for CO2 (with carbon isotope C13)

2327nm for CO (high temperature absorption applications)

2330nm for CO, CH4

2334nm for CO, CH4

2465nm

2476nm for HF

2485nm

2495nm

2505nm

3270nm for CH4 (v3R3 line)

Other wavelengths are also available on custom request. Please <u>contact us</u> (https://www.norcada.com/lasers/?page_id=172) today to discuss your laser needs for TDLAS applications.

Laser Packaging Options

We offer standard TO style packaging and fiber-coupled packaging for our laser products depending on the customers applications. For TO packaging, we have two standard formats: TO39 (TO5) and TO66. All standard packages come with miniature Thermo Electric Cooler (TEC) inside the package to maintain laser temperature stability. Both TO39 and TO66 packages come with a slanted hermetic optical window (7 degrees tilt) to minimize back reflection.

The Butterfly style package offers the customers fiber-coupled laser output in a single-mode optical fibre which is terminated with a FC/APC type of connector.

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