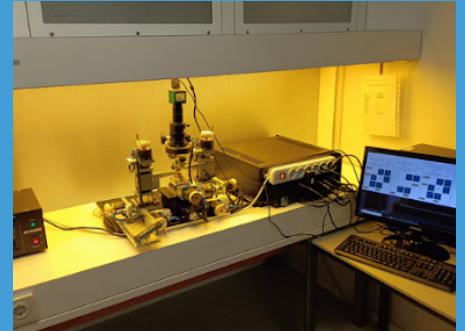


Testing

VTEC Lasers and Sensors is fully equipped to conduct tests of photonic based devices through our automated characterization setups. All of this is in order to measure all relevant parameters of your device, and ensure your complex photonic devices match up to your desired performance standards.

Our testing facilities are able to measure basic photonic building block components, as well as functional whole photonic integrated circuits.



Service description

Capabilities

Continuous/static characteristics:

- Current, voltage, power, spectrum and wavelength measurements
- Threshold current, series resistance and slope efficiency
- Pulsed and continuous LIV sweeping up to 1A
- Pulsed measurements up to 5A, pulse width as short as 500ns

High frequency/dynamic characteristics:

- Reflection and transmission characteristics in frequency domain
- Gathering S-parameters from 130 MHz - 20 GHz (VNA) & 67 GHz (PNA)

Expertise

VTEC Lasers and Sensors has a committed team of employees with expertise, but also strong partnerships with relevant players in the photonics ecosystem and in each step of production.

This is to help us better tailor our solutions to your exact requirements and constraints - meeting the standards you expect from us.

Test of Detectors

Reflection and transmission of characteristics:

- Gathering S-parameters from 130 MHz - 20 GHz (VNA) & 67 GHz (PNA)
- Optical to electrical (OE) measurement types

Bit error characteristics:

- Single channel bit error rate test (BERT)
- For 10G and 25G NRZ
- For different PRBS pattern lengths
- Eye diagram parameters
- Eye opening
- Amplitude
- Signal to noise ratio