coher sense

One to measure them all – Scalable laser diagnostics across the entire NIR spectrum

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We have founded in April 2022 in Lübeck

with the goal to revolutionize Laser measurements.

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And won some prices

Four years later we are funded by

Wir fördern Wirtschaft

EU.SH

Landesprogramm Wirtschaft: Gefördert durch die Europäische Union - Europäischer Fonds für regionale Entwicklung (EFRE), den Bund und das Land Schleswig-Holstein

esa BUSINESS INCUBATION CENTRE Northern Germany

ZIM Zentrales Innovationsprogramm Mittelstand

SONDERPREIS: Junges Unternehmen

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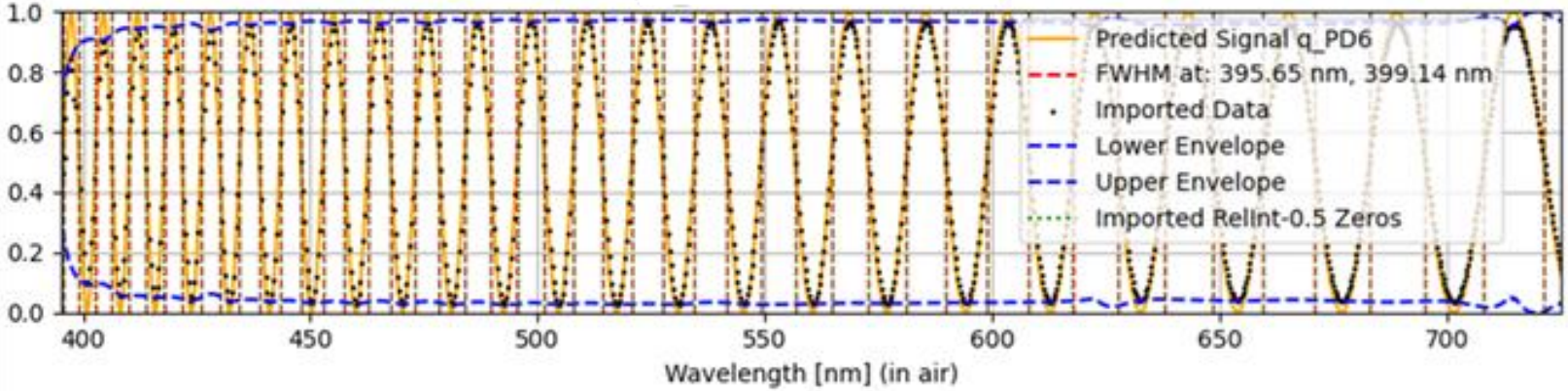
How to revolutionize laser measurements?

1. We have discovered a new way to measure:
   Center wavelength,
   Laser power and
   Bandwidth of the laser.

2. Without additional data processing,
   Independent of humidity,
   Temperature compensated and
   In tiny frame.

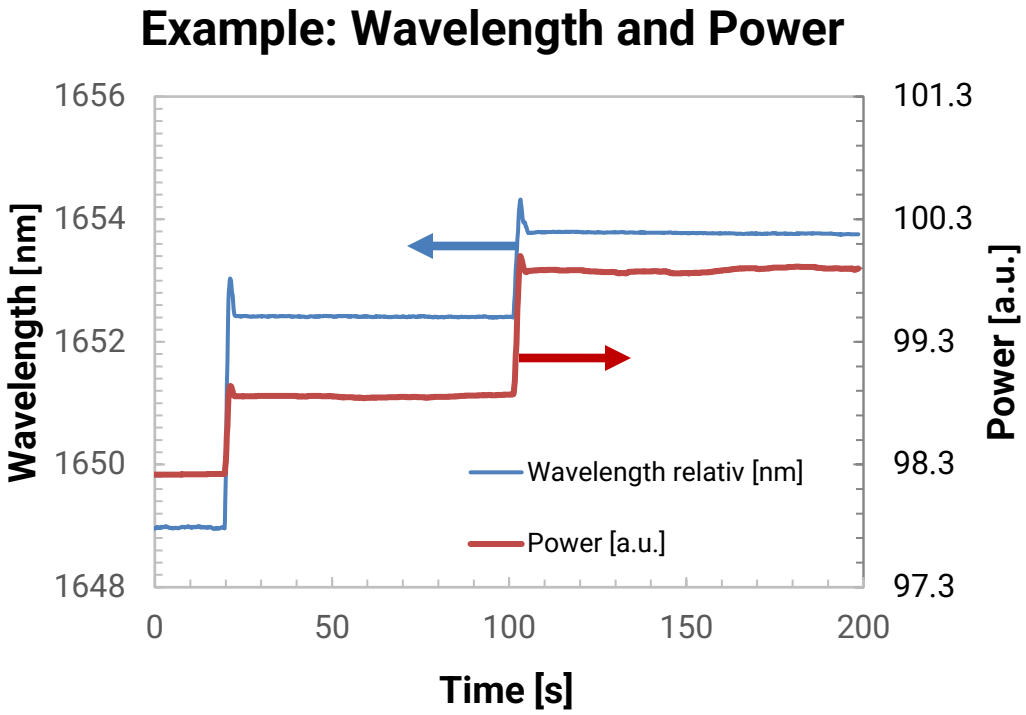
What´s Behind It?



- **We can tune:**
  - **Detectors:** **Si or InGaAs**
  - **Free Spectral Ranges:** **nm to pm ranges**
  - **Quality of electronics:** **Resolution of a Free Spectral Range**

- **Result: Same architecture → different instruments**

What do you get?



Full-Size KISA Sensor

Available: Summer 2026

Compact Laboratory Unit

~12 x 10 x 10 cm

Fiber Connected or Free-Space

Useable for:

900 nm – 2.5 µm optical wavelength [NEW]

400 nm to 700 nm

500 nm to 1100 nm

Selectable Free Spectral Ranges [FSR]

~1 pm – 700 nm

Resolution

FSR/30000 (typical)

Data Rate

0.5 Hz – 8 MHz*

Web Interface

USB, ModbusTCP, SPI

* 8 MHz = max internal speed (OEM level)

Compact KISA Sensor

- Compact Unit
  - 5 x 8 x 4 cm (base version)
- Fiber Connected or Free-Space Use

Detection ranges

900 nm – 2.5 µm optical wavelength [NEW]

400 nm to 700 nm

500 nm to 1100 nm

Selectable Free Spectral Ranges [FSR]

~1 pm – 700 nm

- Interface
  - USB 2.0 (base version)
  - Python GUI

Other Aspects

- Pricing (qty 1):
  - Compact KISA: 5000 EUR
  - Full-size KISA: 10-15kEUR
- Customizable To OEM needs
  - Modifications HW/SW?
  - Services?

Get an easy access to your Laser

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