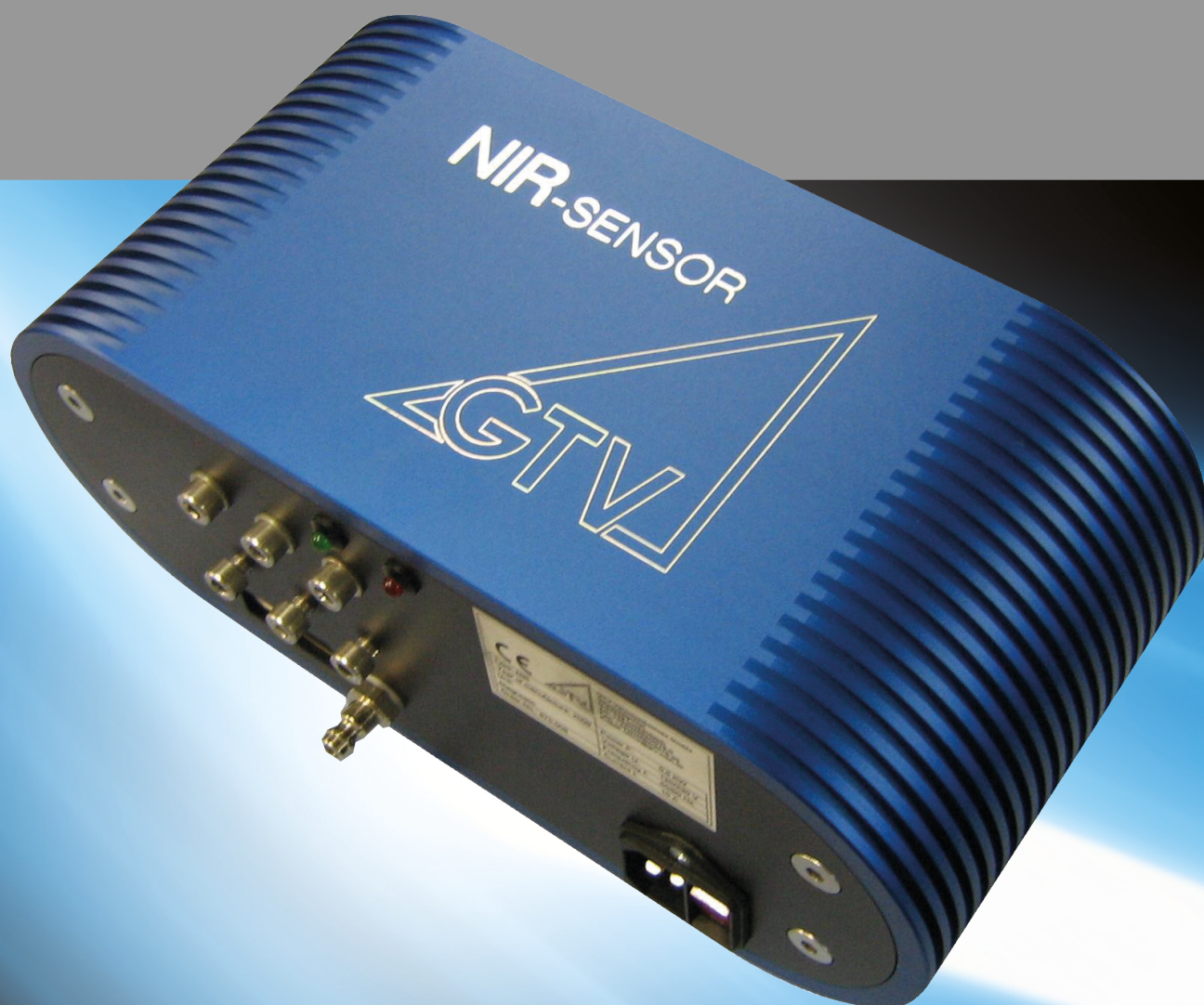


GTV NIR SENSOR

Online Diagnostic Tool:
Near Infra Red (NIR) Sensor

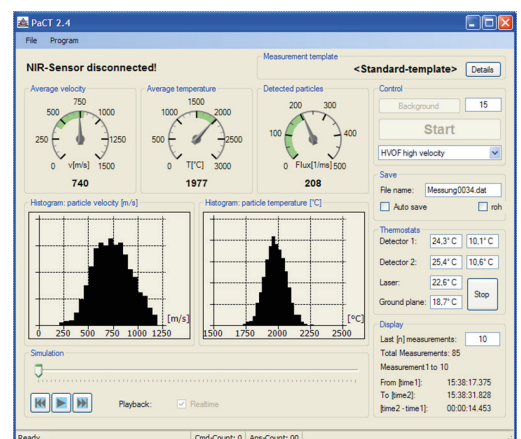
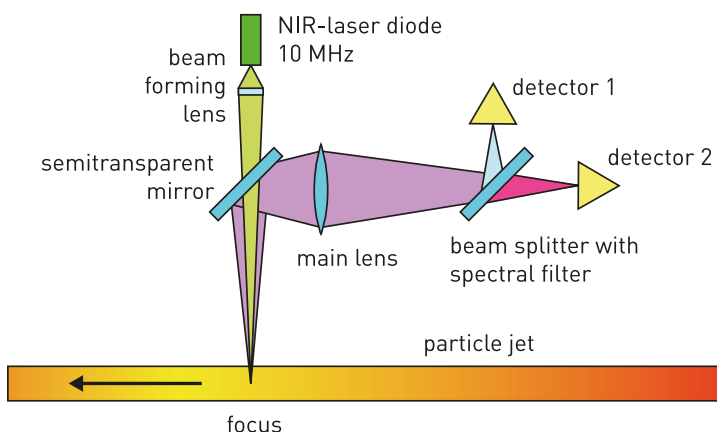


GTV NIR SENSOR

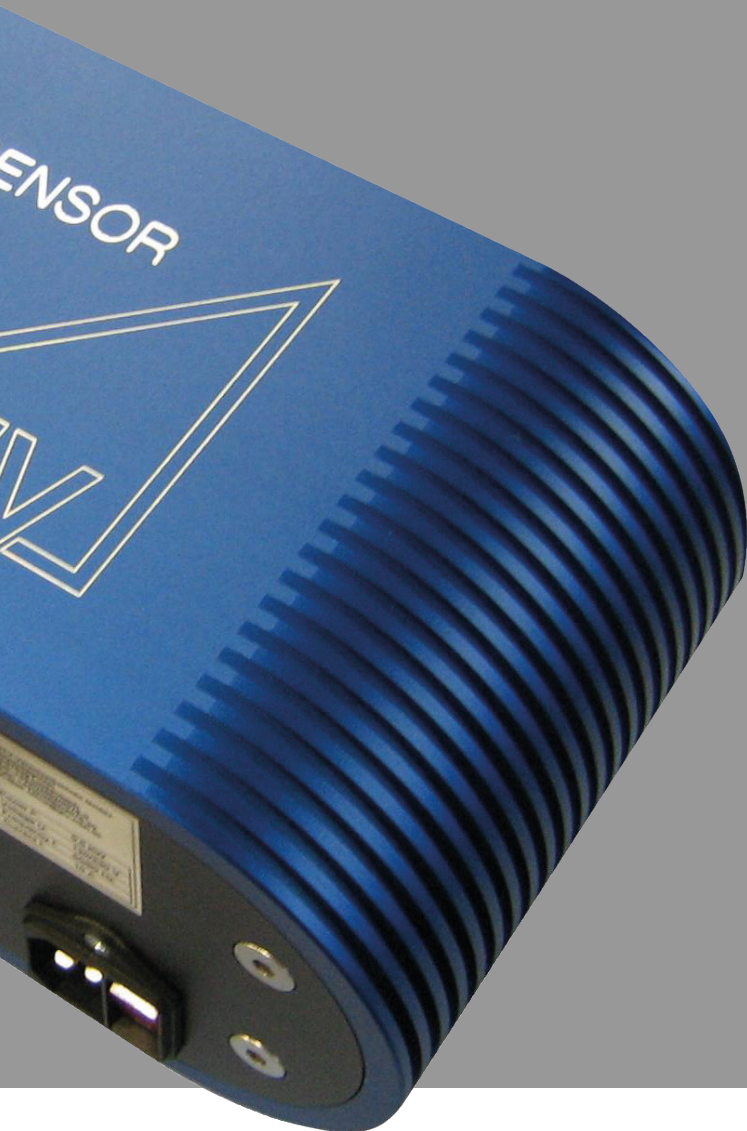
The GTV NIR (Near Infra Red) Sensor is most precise online particle diagnostic system at this time. It can be universal applied to all thermal spray process.

Using the GTV NIR Sensor real velocity as well as temperatures of single spray particles can be measured as long as they range into the infra red light.

The lowest measured surface temperature of the particles are significant lower than competitive systems available on the market



Selectable Languages: German, English



The particle jet will be illuminated by a defined wide spot using a NIR Laser Diode (10 MHz Pulse). The travelling through particle will reflect the laser light. The thermal emission of the particle will be divided into two spectral range by a beam divider and be guided onto two detectors (detector 1 800 nm – 1450 nm, detector 2 1450-2600 nm incl. Laser signal).

Measuring range of GTV NIR-Sensor:

- max. 200 particles per ms
- particle velocities in average of 100 to 1,000 m/s
- particle temperatures in average of 900 to 3,000 °C

The system is suitable for online measurement and analysis of:

- Wire flame spraying
- Powder flame spraying
- Plasma spraying (APS/VPS)
- HVOF spraying
- Arc spraying
- Cold spraying



Ever since the company was established in 1982, the name GTV has stood for top quality and a high level of delivery reliability for all types of thermal spray products.

GTV provides its customers with many years of experience in all aspects of the high-technology field of thermal spray technology, enabling them to make use of the effective and efficient GTV system solutions in order to gain a substantial competitive advantage in the market.



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