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LayTec is the leader in the field of *in situ* monitoring systems for MOCVD, MBE and other thin-film processes. Our real-time sensors are in use both in R&D and mass production.

Our tools measure epitaxy growth properties like growth rate, layer thickness, doping levels, ternary material composition, surface roughness, wafer surface temperature (True Temperature) and wafer bowing with an extreme precision already during the deposition process!

Our brand-new sensor **EpiCurve[®] TT** allows simultaneous and wafer-selective temperature, reflectance and wafer bowing measurements with an outstanding resolution up to 0.3 μm^{-1} .

EpiTT sensor is the first choice today for GaN LED production world-wide and provides emissivity corrected temperature measurements based on the combination of pyrometry and reflectance measurements at two optimized wavelengths. **EpiRAS[®] TT** is the most advanced multi-wafer *in situ* sensor today. It is a unique tool for the R&D of new GaAs- and InP-based opto-electronic devices. Our sensors are based on four measurement techniques: emissivity corrected pyrometry, normalized reflectance spectroscopy, reflectance anisotropy spectroscopy (RAS) and laser deflection measurements.

The enhanced knowledge of the epitaxy growth process achieved through *in situ* monitoring dramatically reduces development cycles and enables superior methods of quality control.

- We are presently the world's only company with long-standing in-house expertise in both optical sensor technology and semiconductor epitaxy.
- With approximately 30 percent of our sensors in use at state-funded research institutions and a well-established R&D network world-wide, we have a continuous supply of ground-breaking discoveries about materials and processes that helps keep our sensors ahead of our competitors.
- LayTec precision tools are highly customisable. We provide our customers with a profound support they need to use our products to their full potential.
- Software is regularly updated and improved to address new applications and to integrate the latest database parameters. An advanced online support service is available to registered LayTec customers.
- Our sensors help to reduce production costs by improving yield and lowering time to market, as proven on a daily basis in production line MOCVD systems at major LED and LASER manufacturing facilities world-wide, even for highly sophisticated devices like quantum dot VCSELS.