

Nanoplus launches new product line

Single mode emitting laser diodes in the wavelength range between 750 nm and 2900 nm constitute the core product of nanoplus Nanosystems and Technologies GmbH.

Latest developments resulted in the launch of the new CENTURION product line. The key features of the CENTURION laser diodes are extremely narrow spectral emission linewidths and optimized farfield characteristics.

CENTURION series lasers will be available at wavelengths from 852 nm to 1064 nm. The attainable optical output power of these devices reaches up to 100 mW in cw operation at room temperature. Due to an extremely narrow spectral emission linewidth of less than 1 MHz the CENTURION laser diodes allow for previously unreachable levels of spectral selectivity. Combined with their high side mode suppression ratios in excess of 35 dB, this paves the way for low noise, interference free measurements. Mode hop free wavelength tuning ranges of up to 2 nm are routinely achieved with these novel devices.

Furthermore the CENTURION lasers have been specially engineered to exhibit improved farfield characteristics. Typical divergence angles in the range of 26° x 18° (FWHM, vertical x horizontal) permit efficient coupling of the laser light into external optics.

Because of these features, the novel CENTURION laser diodes are especially suited for applications demanding very precise measurements as e.g. the ultra sensitive measurements of the Cesium D1 and D2 lines in atomic clock applications. Other possible fields of application are atomic spectroscopy measurements and terahertz generation for spectroscopy, imaging, communication etc.

Due to their high output power and efficiency in coupling into external optics, the CENTURION laser diodes are also perfectly qualified for highly selective measurements in rough and dusty environments.

The devices are available in the whole range of packaging options usually provided by nanoplus.

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