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## Understand ISO 17025 for Laser Power and Energy Measurement

Coherent is accredited to ISO/IEC 17025:2005, the industry recognized standard that defines management and technical requirements for a calibration laboratory. Most manufacturers of laser power and energy measurement instruments calibrate their product against third party reference standards. However, only with independent accreditation can end-users have confidence in their measurements. ISO/IEC 17025 accreditation assures customers that laser manufacturers are producing calibrations to the highest standards. Updated specifications and enhanced calibration certificates provide additional clarity to uncertainty specifications, helping customers better understand the accuracy and repeatability that products can deliver.

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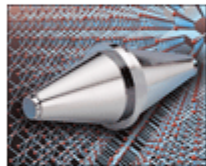
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## Thousands of Cells Tracked Via Lensless Imaging

A novel lensless computational imaging platform is being touted as a new way to observe and track large numbers of rapidly moving objects under a microscope, capturing precise motion paths in three dimensions.

[FULL ARTICLE >>](#)

## Laser Stability Improved by an Order of Magnitude



A laser so stable that its frequency varies by no more than two parts in 10,000 trillion represents an approach for constructing high-quality optical cavities that improve prior designs by more than an order of magnitude.

[FULL ARTICLE >>](#)

## Waveguides Need Characterization, Too

Measuring the attenuation and isolation of polymer waveguides in optical printed circuit boards will help manufacturers develop and produce better boards for optical communications

[FULL ARTICLE >>](#)

## X-ray, Optical Wave Mix Probes Atomic-Scale Light

A long-awaited technique for watching how light interacts with matter on the atomic scale was demonstrated by mixing x-ray and optical lightwaves. Vision, photosynthesis and solar cells are a few examples of the ways light changes matter, but how light makes those changes hasn't been measured on the atomic scale until now.

[FULL ARTICLE >>](#)

## Quantum Effects Observed in Optomechanical System

The first direct observations of distinctly quantum optical effects - amplification and squeezing - have been recorded in an optomechanical system. The step forward points the way to low-power quantum optical devices and enhanced detection of gravitational waves, among other applications.

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