



PML – Particle Monitoring Technologies Ltd.

PML – Innovative Particle Monitoring Technologies aims to become a leader of in-process particle monitoring in water before and after filtration. Monitoring includes sizing classification in a wide size range down to nanoparticles.

PML is a spin off from the Technion – Israel Institute of Technology in Haifa. The company's technologies are in the advanced R&D stage and financing has been received from the Israeli government, the European Union and an Australian strategic partner.

Unique Advantages

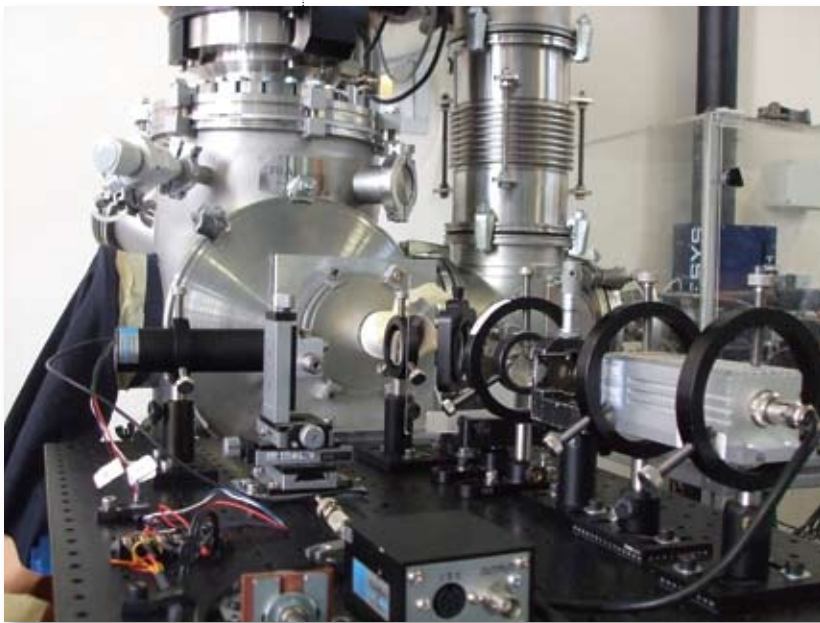
- Provides automatic in-process monitoring of sub-micron particles. PML goes to the nano world! (Means detections of viruses, bacteria, parasites and other micro-particles).
- Provides automatic in-process discrimination between particles categories. (Such as viruses, bacteria, algae, clay, carbon and more)

Core Patented Technology

A novel synthetic non-Gaussian (dark) beam is generated and used in a scanning laser configuration. PML has developed a technology and system that are based upon a unique structured non-Gaussian, "dark" laser beam, interacting with the particles. The technology enables automatic, continuous, in-process monitoring of particle sizes (including nano-particles!) and concentrations, in water before and after filtration.

Automatic Differentiation

The system also automatically differentiates between particles categories, such as clay, carbon, algae, germs, parasites, submicron viruses and more, according to their optical properties, by employing artificial intelligence tools on the laser-particle interaction signal. The system is compact; offers high sensitivity and resolution in a wide particle size and concentration range.



The PML Solution

Uses advanced "Structured non-Gaussian Dark Beam", scanning Laser technology for in-process:

- Particle size analysis (down to the NANO level)
- Particles concentration measurement
- Discrimination among mixed populations
- Operates in liquid and gas
- Compact (small "foot-print")
- Monitors wide range of concentrations from 10 to 100 million particles per ml
- High sensitivity in a wide particle size range (0.1-300m)
- High resolution of particle sizes



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