

Micro-Nano Technology in Olympus
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In this paper, Micro-Nano Technology in Olympus is described.

Olympus has four major businesses; Digital Cameras, Medical Endoscopes, Microscopes for biology and Diagnostic Systems, and Industrial Microscopes. Technological background of these four core business domains are the optical, precision and digital imaging technologies , and living cell technologies. Through synergistic effects with technological assets accumulated in each domain, Olympus is active in new business development. Micro Electro Mechanical Systems (MEMS) used in nanoscale microscopes, which were created from ultra-precise processing technology, are a prime example of these advanced technologies. We are involved in a variety of fields that provide opportunities to create new businesses .

In these few years, Future Creation Laboratory has tried to create new seeds for future business possibilities. Nanotechnology is one of the promising technologies, when we use it in combination with MEMS technologies. In this meaning, carbon-nano-tube (CNT) is chosen to make an ultra high sensitive biosensor on MEMS used at household for better QOL(quality of life). In the lecture, R&D system and activities about micro-nano technology in Olympus will be introduced farther more.