

Press Release

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Material testing technology Thoroughly tested, also in the nano-world

**Three novelties: Universal testing machine, particle size instrument, high-speed camera /
'Control 2009' international trade fair for quality assurance, Stuttgart, Germany, hall 1, stand 1629**

As one of the world leaders in instrumental analysis, Shimadzu has also held a leading position in materials testing technology over the past 90 years. In addition to static and dynamic universal testing machines, the extensive product line of testing machines includes micro- and ultra-micro hardness testers, particle size measuring instruments, capillary rheometers, high-speed cameras as well as precision- and analytical balances.

The 50-year anniversary of Shimadzu's universal testing machines is an occasion for Shimadzu to present its new AG-X universal testing machine, which features novel functions such as the high-speed function for measurements up to 12,000 mm/s. The instrument is suitable for quality assurance in numerous industries as well as for testing of synthetic materials, metals and other components in research & development.

The AG-X is supported by a high-performance control unit, which enables a data rate of up to 300 kHz. With the newly developed *Trapezium X* software it is also possible to analyse fast material changes in great detail.

The IG-1000 particle size measurement instrument will have its European premiere. It will be on display during the *Control 2009* international trade in Stuttgart, in Hall 1, Stand 1629. Due to its patented particle size measuring system it is now, for the first time, possible to measure particles sizes between 0.5 – 200 nm.

An additional highlight is the HPV-2 high-speed camera, which features an imaging speed of up to one million frames per second (FPS) and is therefore one of the fastest camera's available in the world. Thanks to the USB2 connection, the new HPV-2 can be directly connected to a PC or laptop. And it is just as easy to synchronise up to four cameras. This enables the acquisition of three-dimensional images or images from four different viewing directions.



One of the world's fastest cameras: The HPV-2 also delivers 3D-images or illuminates different viewing directions.



The IG-1000 with the new, by Shimadzu developed and patented measuring method, enables measurements in the single-digit nano-range.



Quality assurance, testing of polymeric materials, metals and other components in R&D – the AG-X universal testing machine with high-speed functionality.

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