



PRESS RELEASE

Nanogate AG launches first cooperation in the area of optics

Cooperation with one of the world's leading electronics groups to adapt Dotfarm® optics technology for series production of LCD flat panel displays

Saarbrücken, 24 October 2007. Nanogate AG (ISIN DE000A0JKHC9) is embarking on cooperation in optics with one of the world's largest electronics groups. The aim of the agreement is jointly to develop Dotfarm® technology, an innovative technology for the alignment of minute light guides, opening up new applications and markets all over the world. The initial focus is on backlighting for LCD flat screens. Just shortly after the granting of international patents, Nanogate subsidiary Nanogate Advanced Materials GmbH can thereby demonstrate an initial success toward the future implementation of Dotfarm® optics technology.

The subject of cooperation with one of Asia's largest electronics corporations and other major suppliers is the development of backlighting for LCD flat panel displays that could be manufactured more cost-effectively using Dotfarm® optics. Conventional solutions use various kinds of light directing films that lead to considerable expense for manufacturers. Dotfarm® optics as a nanostructured surface consists of millions of diffractive gratings, which can be individually set, programmed and properly aligned to substitute conventional light directing films. In such a way, light can not only be shaped in a targeted way, but also enhanced in brightness. Powerful miniaturisation of individual gratings means that this technology can also be used to refine even minute components. In this way the costs of backlights for displays could be reduced by between 20% and 50%. Nanogate has plans for further cooperation agreements with leading companies in this industry in the future.



"This first development agreement proves the enormous potential of Dotfarm[®] optics," says Ralf Zastrau, CEO of Nanogate AG. "Jointly with our Asian partners we aim to develop our innovative technology further for use in series production. Initial cooperation in the optics segment takes us a step closer to our strategic objective of addressing large markets with potential revenues in at least significant double-digit millions and with high margins."

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Nanogate AG:

Nanogate is a leading international enabler in the nanotechnology growth market and so opens the gate to nanotechnology for its customers. The Saarbrücken-based firm enables the programming and integration of additional properties such as non-stick, anti-bacterial, anti-corrosive, ultra-low friction. Nanogate thereby gains a competitive edge for its customers by product refinement using chemical nanotechnology. Nanogate covers a wide range of industries, functions and substrates already on the basis of technology platforms. The company thus provides a decisive interface for the commercialisation of chemical nanotechnology, bridges the gap between raw materials and their industrial conversion into products and concentrates as an enabler on one of the most attractive segments in the industry. As a partner in innovation, Nanogate provides many services along the value chain – from development and production of innovative nanocomposites and nanostructured materials to powerful support for innovation and product integration.

The Nanogate Group currently has 57 employees in all (as of 1 July 2007) and since commencing operations in 1999 has been a pioneer in nanotechnology. Nanogate is a high-growth company and has operated profitably since financial year 2004. In financial year 2006 it boosted consolidated sales by about 64% to around €7.84 million. Consolidated earnings before interest and taxes (EBIT) to IFRS increased by about 220% to around €1.1 million in 2006. The company has first-class customer references, such as ABB, BSH Bosch-Siemens Hausgeräte, Giesecke & Devrient, Kärcher and Koenig & Bauer



AG, and many years' experience of different industries and applications. It has also entered into strategic cooperation with US companies Dow Corning and Ceradyne/ESK Ceramics and Authentix and with Giesecke & Devrient. The Group's consolidation entity includes Nanogate Advanced Materials GmbH, which specialises in safety engineering and optics and is a joint venture with the US Air Products group. Nanogate also holds a stake in HOLMENKOL Sport-Technologies GmbH & Co. KG.

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