

Nanosensor Markets 2014

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Abstracts

Nanosensors - devices capable of detecting nanoparticles - are already in use in the medical diagnosis field, but are expected to see near-term commercialization in military, domestic security and environmental monitoring applications, as well as several other areas. NanoMarkets believes that longer-term revenue generation from nanosensors will also emerge from a variety of uses for such sensors in microelectronics manufacturing and in the construction market. In addition, we also believe that the near-term development of nanosensors will be an important enabling technology for the "Internet-of-Things" and robotics.

This report identifies where and how the commercial opportunities presented by nanosensors will appear and provides detailed projections of the size of these opportunities over the coming eight years. Each nanosensor application is analyzed in detail, showing how it will be brought to market. The report also discusses the strategies being deployed by nanosensor firms and also provides an overview of noteworthy nanosensor commercialization initiatives.

In addition, to being a valuable guide for marketing and product management in the sensor industry, this report will also be required reading for executives in the specialty chemical industry, since it discusses how specific biological and nanomaterials will be used in nanosensors. Coverage of materials includes biological materials and inorganic nanomaterials including graphene and quantum dots. This report also analyzes the business implications notable trends in the fabrication of nanosensors including developments in bottom-up assembly, self-assembly and top-down lithography.

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