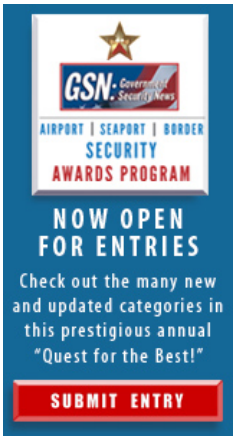

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OPTAGLIO believes 'smart' signs will improve traffic safety

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OPTAGLIO, the global leader in e-beam lithography, is in the final stage of development of a smart traffic sign which is able to focus most of its luminance to a particular passage of a street. It is expected to accelerate drivers reaction and enhance traffic security. It may play an important role in a smart city concept currently prepared by governments and some technology corporations.

Interactive traffic signing is an important feature of a smart city concept. It can direct car streams and control their speed according to the momentary traffic density, environmental situation, schools timetable, shifts in factories etc. This interactivity brings strong benefits but creates new demands on drivers. It will not be possible to rely on memory and knowledge of a place anymore. A smart sign with an ability to increase shining on a particular car at a particular moment can be very helpful.

This innovation is a product of OPTAGLIO research center in Lochovice, Czech Republic. It is focused on optical nanotechnologies, with the primary interest in anti-counterfeiting protection. Although this center has produced many product innovations and patents, an important part of activities is focused on scientific research. The culture and strategy of OPTAGLIO are still shaped by the fact that the company was founded by a group of scientists from Czech Academy of Science. Therefore the company has invested into research massively and cooperated with universities, mainly in areas of optics and document protection.

OPTAGLIO recently announced a program of development of next generation e-beam lithography. The new technology will be available in 2020 and ensure that document producers have a technological advantage so big that nobody can imitate their security elements before 2050. Microholograms, already established in the market, are another innovation produced by OPTAGLIO research center. These extremely small particles with holograms can be embedded into paper, plastic, lacker etc. and prove the genuineness of a document, consumer good, machinery part etc. They can be also used for anti-theft protection.

Divisional director for e-beam lithography in OPTAGLIO, Luboš Malák, said: „OPTAGLIO is and will be an anti-counterfeit protection company. It is the reason we have spent 15-year effort on development of e-beam lithography. We are delighted we can help also in other areas, such as smart city, with our know-how. However, it is definitely not our ambition to become a traffic signs producer."

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