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Optaglio integrates competing hologram technologies – laser and electron beam

By Antonio D'Albore | June 19, 2018

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LOCHOVICE (June 19, 2018) – Optaglio has introduced its first holograms created with a combination of technologies, applied separately so far. Combination of technologies should prevent counterfeiters from easy identification what measures were used for hologram creation. It is a part of long-term Optaglio effort to keep holograms the most secure anti-counterfeit technology available.

“It is no revolution. Some companies tried to combined laser and electron beam some ten years ago. The results were quite disappointing, but the technologies are much more advanced now,” said Tomas Karensky, the Senior Research Manager in Optaglio. “ We invited university experts to help us with the laser part because our primary focus is e-beam. The first results are more than satisfactory. Experts questioned were not able to identify precisely what technologies were used for master hologram creation.

Optaglio applies a combination of technologies to the design of its current holograms to enhance or change some visual illusions and features. In the next phase of the project, focused graphical design for



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unique hologram features correspond to user abilities to identify them. Such comprehensive protection elements should be available by the end of this year.

Optaglio was founded in 1994 by a group of scientists from Czech Academy of Science. It has always been more a research organisation than a traditional manufacturer. In 2015, all Optaglio's research and development activities were concentrated into Optaglio Labs in Lochovice, Czech Republic. During the last year, technical research activities were supplemented by behaviour research laboratory and a systematic approach to hologram designing.

About **Optaglio**

Optaglio is the global leader in high-resolution e-beam lithography security holograms. During almost 25 years of our history, we have delivered billions of holograms to governments, card manufacturers, security printing companies, premium brand producers and other organizations in more than 50 countries around the world.

In 2015, a large scientific centre and production facilities were opened in Lochovice, Czech Republic. The company currently employs almost 100 people in the United Kingdom and the Czech Republic.

Optaglio, certified to relevant international standards, operates under strict 24/7 security supervision. Our comprehensive security system covers people, processes, data and facilities. The company is a member of International Hologram Association (IHMA) through which it registers all its security devices and holograms in the central security register, in London.

More information is available on www.optaglio.com.

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