



IQ Structures´ holograms integrate polycarbonate and paper

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IQ Structures, a Czech research and production organisation, introduced an innovation that prevents attacks against connection of polycarbonate page with the biometric chip from a paper passport. From the inspector´s point of view, the hologram continues from polycarbonate to paper fluently.

This new solution benefits from unique features of IQ Structures´ technology: Holograms up to the edge of the polycarbonate page and integration of holographic elements with printing. The hologram is imprinted into polycarbonate and has no limits in size and shape. It can protect all sensitive data against tampering. It creates a big difference against outdated hot-stamping solutions.

“There are already measures for strong anti-counterfeit protection of passport data page available. Now it is time to protect the integrity of entire passports,” says Robert Dvorak, the business development manager for Security in IQ Structures. “Our solution is based on the specific features of passport substances. Moreover, it enables easy visual inspection, which is essential for enhancing security on critical level one.”

IQ Structures´ long term strategy is based on the integration of different substances and anti-counterfeit protection technologies into single seamless units that enable intuitive supervision. Its award-winning product, IQ proID, offers a flexible platform for such projects. Recently IQ Structures announced the integration of holographic protection with Security printing.

Integration of polycarbonate and paper pages brings new requirements for holograms design and graphic design. IQ Structures can offer services of its origination centre, recently awarded by double victory in "Excellence in Holography 2018" by International Holograms Manufacturing Association. It combines several origination technologies, execute extensive research programs and produces unique effects, including smoothly plastic illusion objects on transparent holograms, small animations, upstream moves etc.

About IQ Structures

IQ Structures is a research and production company focused on optical nanotechnologies, especially strong in security, anti-counterfeit protection and lightening. Backed by 20-year experience, IQ Structures has built extensive research capacities, owns several patents, and operates a manufacturing unit with a capacity to protect more than 100 million polycarbonate ID cards a year. It has been awarded several international prizes for excellence and scientific innovation, including recent double awards by International Holograms Manufacturing Association. The company is settled in Řež, close to Prague, the Czech Republic.

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