Why IDEMIA?

With over 3 billion identity documents issued worldwide, IDEMIA has extensive experience in the production of fraud-resistant documents and comprehensive knowledge of the evolving challenges in tampering.

Innovation is key in this fight against security threats and IDEMIA continuously innovates to be one step ahead of fraudsters. SLI® has been adopted by the Netherlands for their passports and identity cards and more recently by Morocco and Latvia for their ID cards.
How it works
An optical lens structure
The lenticular lens, integrated into the surface of the polycarbonate document, allows the creation of a stereo view effect.

From a single color photo of the ID document’s holder, the picture is engraved at different angles through this high-quality lens structure using a proprietary software that will generate grayscale images.

SLI® consists of four pictures. When tilting the document under a light source a motion effect is perceived by the human eye. An array of lenses adds a tactile effect to SLI®.

SLI®
a 3D secondary portrait

Picture as supplied
3D model generation
SLI® as engraved with floating data
3D facial image of the ID document holder

Cutting-edge technology
› A 3D image laser-engraved in a polycarbonate structure
› A high-quality feature: SLI® reveals all detail visible in the primary photo
› A tactile lens structure that gives 3D and depth
› A technology that can be used directly in existing enrollment infrastructures without any additional equipment

And tomorrow?
SLI², also called SLI inverted, presents a negative view of the same portrait in addition to the depth effect of the positive portrait. When tilting the document, a positive-negative swap is observed. If a fraudster tries to add an element in the positive image, it will be impossible to remove this element from the negative image made of dark laser-engraved areas to keep consistency.