

Security Features of G&D ID and Smart Cards at a glance

Kinegram™ / Hologram

- ▶ Artistically designed holographic structure
- ▶ Protected by 100 µm overlay foil

Security Background

- ▶ Fine guilloche patterns incorporating the logo
- ▶ Rainbow printing
- ▶ Virtually impossible to imitate

Surface Structure

- ▶ Guilloches and microletters
- ▶ Easy visual and tactile verification

Photograph

- ▶ Laser-engraved into the card material
- ▶ For tamper-proof protection

Integrated Photo Background

- ▶ Harmonious phasing out of the image into the background portrait
- ▶ Overlapping portrait edge and security background

Multiple Laser Image

- ▶ Three different card-specific items of information combined in one laser-engraved structure (signature, date of birth, micro photo)

Ultraviolet Fluorescent Inks

- ▶ Only visible under ultraviolet light
- ▶ Genuineness verification feature

Memory or Microprocessor Chip

- ▶ Longlife embedding
- ▶ Extended temperature range

Microprinted Line

- ▶ Detectable only with magnifying glass
- ▶ Reproduction not possible with techniques available to counterfeiters

See Through

- ▶ Real see through/transparent area
- ▶ Laser engravable
- ▶ Front and reverse printing from both sides visible

Bearer Related Information

- ▶ Laser-engraved, i.e. burnt into the card material
- ▶ Unequaled protection against manipulation / deterioration

Tactile Lettering

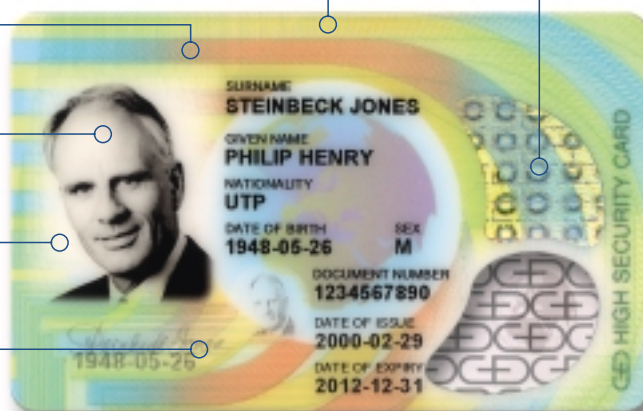
- ▶ Easy tactile and visual verification

Two-Dimensional Barcode

- ▶ Encryption of large amount of data
- ▶ Machine-readability

Material

- ▶ Long-life, high-endurance card material (polycarbonate)
- ▶ Specifically matched to the laser-engraving process



Giesecke & Devrient