Gemalto Color Laser Shield

Built-in photo security for polycarbonate ID documents

Gemalto Color Laser Shield card offers a razor-sharp portrait protected by four color lasers. Gemalto’s unique technology brings a secure color photo inside ID cards – while keeping personalization separate from production of blank documents to fit governments’ issuance workflows. The highly detailed portrait facilitates visual identity verification, and an embedded chip solution enables a multitude of advanced electronic applications.
Secure your portrait

Gemalto Color Laser Shield is a unique laser personalization solution for polycarbonate documents, bringing color, very high resolution and enhanced security to cardholder photo. It offers advanced protection for the photo which is the most targeted element by fraudsters.

Photosensitive ink inside the polycarbonate card and four lasers with different wavelengths are used to create a highly detailed color photo. It integrates naturally in a standard issuance workflow, enabling personalization at customer facilities.

Gemalto Color Laser Shield produces razor-sharp color photos that facilitate recognition of facial features and skin tone, mitigating imposter threat.

Besides bringing color to the document, Color Laser Shield technology strengthens the protection of both blank and personalized cards against tampering attempts.

GEMALTO COLOR LASER SHIELD DOCUMENTS OFFER MANY BENEFITS:

- Reduced fraud thanks to technology barrier
  > Strong resistance to counterfeiting and alteration
  > Restricted access to technology
  > Blank documents protected against fraudulent personalization attempts

- Simple to verify
  > Detailed photo for accurate verification of document holder’s identity
  > Quick authentication thanks to leaner design enabled by stronger photo protection
  > Photo is well protected thanks to traditional and innovative security elements, creating a strong link to the rest of document

- Bring industry best practices
  > Full compliance with ICAO recommendations
  > Robustness for long lifetime on the field
  > Remain a step ahead of counterfeiteers
Building on the secure foundations of polycarbonate

Gemalto Color Laser Shield delivers an unalterable color image combined with the best-in-class security and exceptional durability of polycarbonate. Color Laser Shield enables to find the subtle balance between the need for fast verification and the best protection against counterfeiting and tampering.

A BREAKTHROUGH PROCESS

Durable and fraud-resistant genuine polycarbonate card body
- Fused without any adhesives under heat and pressure into a mono-block
- 10 year durability – qualified by independent laboratory and proven in the field

Boosts protection of photos and their verification
- Irreversible and high-resolution color photo engraving inside the card body
- Combination of state-of-the-art technology and traditional security features
- Very difficult to forge and easy to verify

Simple to adopt
- Personalization as a separate step with no consumables required
- Support to upgrade existing issuance setups with color lasers
About Gemalto

Gemalto is the world leader in digital security with 2017 revenues of €3 billion.

In the civil identity sector, Gemalto provides secure documents, robust identity solutions and services that address government programs for ID management and road safety, eGovernment/mGovernment infrastructures for trusted eServices, and border and visa management requirements.

Gemalto also addresses public safety and law enforcement challenges, offering best-in-class forensic solutions.

The company’s products and solutions are deployed in over 200 active programs worldwide, with specific expertise in secure document issuance, biometrics, document readers, authentication, ID management and data protection.

Gemalto collaborates with its clients to report and share best practices.