

THE HISTORIC CHALLENGE: SECURITY VS. QUALITY

For decades, governments have faced an impossible choice when personalising identity documents:

Black-and-white laser personalisation ensured robust security but produced greyscale images, which limited visual recognition of subtle facial features. It offered high security and quality-just not in colour.

Colour laser personalisation technologies currently available on the market provide colour portraits but fail to deliver both high security and premium quality. With colour, there is always a compromise.

Governments were forced to choose between security and quality. **Until now.**

INTRODUCING CHROMA: THE BREAKTHROUGH

CHROMA is the **first and only** laser colour personalisation technology that delivers near-photographic image quality while maintaining the highest security standards required for polycarbonate identity documents.

The innovation: Cyan, magenta, and yellow photosensitive dyes combined with a single laser beam, achieving a polychromatic portrait.

The result: Passport and national ID polycarbonate card colour personalisation that no longer compromises.

CHROMA TECH: Enabling Seamless Personalisation

CHROMA TECH is a qualified machine range compatible with CHROMA technology, including upgradeable existing equipment.



WHY COLOR MATTERS: THREE DIMENSIONS OF IDENTITY

Modern identity verification relies on three interconnected methodsall inherently designed for colour:

- 1. VISUAL → Border officers view both the traveller and document in colour
- **2. PERSONALISED PORTRAIT** → The photograph in the document booklet
- **3. DIGITAL** → The photograph stored on the chip

Border Control officers must mentally translate between colour reality and limited personalised representation, slowing verification and increasing error potential.

CHROMA aligns all three

THE SECURITY ADVANTAGE

Near-photographic quality previously impossible with secure laser technology

Full security integrity on polycarbonate substrates

Compatible with passports, national ID cards, and any polycarbonate identity document

Future-proof your identity program with cutting-edge innovation



EXPERIENCE THE CHROMA DIFFERENCE

