

# 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

