



# What is the new trend for colourful identity documents?

A high-quality, full-colour photograph is an essential element for the new generation of identity documents. To meet this trend, IAI offers a new security feature: LCI (Laser Colour Inkjet) for full-colour images on the polycarbonate data page of passports and on cards.

LCI is a photo-enhancing feature that contributes to a higher level of security. LCI is designed for polycarbonate materials and provides a bright, full-colour image using a black laser engraved image in combination with an inkjet-printed image.

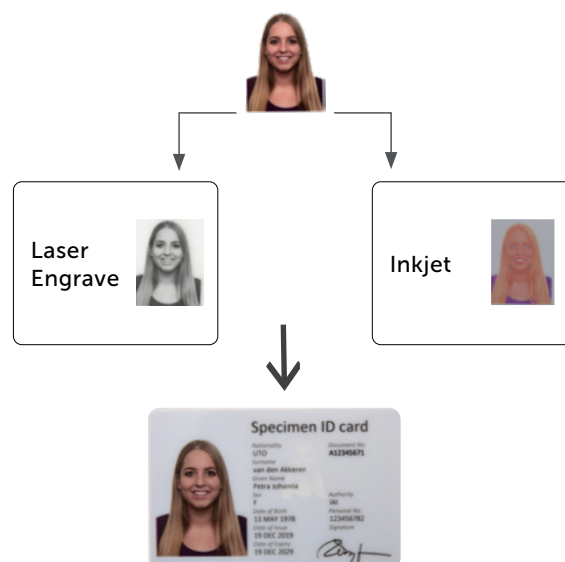
First applying a black laser engraved image into the document body — which is virtually impossible to remove without physical damage to the document — followed by applying a printed colour image in cyan (C), magenta (M) and yellow (Y) colours on top of the laser engraved image, results in a high-quality, full-colour image which is both durable and secure. The colour-printed image is applied with inkjet printing technology using inks specially designed for excellent adhesion onto polycarbonate. After the colour image is printed in a high-speed, single move, the ink is completely and irreversibly cured with high-power UV light resulting in a durable

print. Optionally, a varnish layer applies a translucent layer on top of the image to further increase surface abrasion resistance. This varnish is also completely cured with a high-power UV light.

LCI allows the use of security elements such as DOVIDs (Diffractive Optically Variable Image Devices) to protect the holder's photograph. These features remain visible and verifiable after the LCI has been applied.

LCI images have been successfully tested and certified for 10-year durability according to ISO standards.

“LCI elevates identity document security to a higher level.”



### Highlights of Laser Colour Inkjet (LCI)

- Outstanding, high-quality full-colour image
- Laser engraved, high-resolution, greyscale image in the document substrate makes it virtually impossible to forge
- Durable colour image with inks designed for perfect adhesion on polycarbonate substrates
- High-speed document personalisation with UV cured inks which harden instantly and irreversibly
- Can be used with security elements such as DOVIDs
- ISO-certified for 10-year durability

LCI images can be applied to travel and identification documents such as passports, ID cards, resident permits and driver's licenses.

With IAI's BookMaster® and CardMaster® series personalisation systems, LCI can be applied, processed easily and combined with other security features.

"We know the best way to secure your documents"



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LASER COLOUR INKJET (LCI) // SECURITY FEATURE



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Empowering Security Documents