What is the new trend for identity documents?

A high-quality full-colour photograph is an essential element for the new generation of Identity documents. To meet this trend IAI's offers a new security feature, LCI in short for Laser Colour Inkjet, for a full colour image in polycarbonate datapage for passports and ID cards.
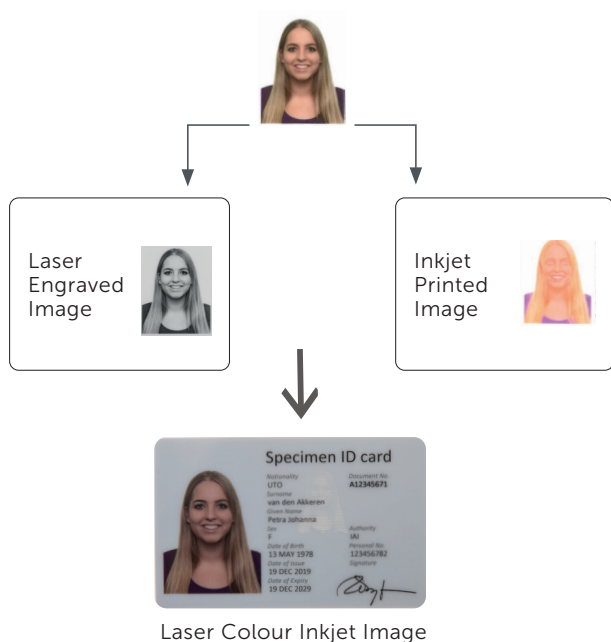
LCI is a holder's photo enhancing feature that contributes to a higher level of security. LCI is designed for polycarbonate materials and provides a bright full-colour image by combining two technologies: a black laser engraved image in combination with an inkjet printed image.

The LCI process comprises three steps: first, a black laser engraved image is applied into the document body (making it impossible to remove without physical damage to the document). Secondly, a colour image is printed in cyan (C), magenta (M) and yellow (Y) colours on top of the engraved image. After this is done, the ink is completely cured with a high power UV light in a single move with high-speed.

The colour printed image is applied with inkjet printing technology with inks specially designed for excellent adhesion onto polycarbonate.

Thirdly and optionally a translucent varnish ink is applied on top of the colour image to increase surface abrasion resistance, which is also completely cured with a high power UV light.

"LCI will elevate the identity documents security to a higher level"

Laser Colour Inkjet Image

"We know the best way to secure your documents"

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

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

For other materials besides polycarbonate, please contact IAI's sales team. We are happy to meet your project requirements with further tests and developments.

Highlights of Laser Colour Inkjet:

▶ The combination of laser engraving and inkjet printed technologies, provides outstanding full colour image which is difficult to counterfeit.

▶ It creates a durable image, as the hardening of the inks by UV light is irreversible.

▶ The inks hardens instantaneously, allowing a high-speed personalisation of documents.

▶ It allows the use of security elements such as DOVIDS to protect the holder's photograph further against forgery.

▶ With an ISO certification, LCI image has been successfully tested for a durability of 10 years.

LASER COLOUR INKJET (LCI) // SERCURITY FEATURE

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Empowering Security Documents