

Belgian eID card 2020



The project

After a successful delivery of personalization systems with the application of IAI's ImagePerf security feature on the Belgian Passport, we are honored to be the supplier of the equipment used in personalisation of the new Belgian e-ID card.

Three CardMaster® One systems have been installed at Zetes's personalisation sites where the national identity documents are being produced. The Ministry of internal affairs launched the new generation of the Belgian eID cards in January 2020.

The CardMaster® One systems personalise approximately 1.3 million up to 3.5 million eID cards annually. These are high-volume card personalisation systems which have a production rate up to 1500 cards per hour with the current configuration.

The eID card allows Belgian citizens to travel to 50 countries. Therefore, it is imperative to provide a highly secured document to combat identity fraud. Detecting physical integrity of the card is essential, furthermore, the document needs to be fully compliant with ICAO standards.

Consequently, in close collaboration with Zetes, IAI introduces the ImagePerf®/REV security feature on the polycarbonate eID card. ImagerPerf®/REV aims at elevating the security standard of the new Belgian eID card.

"First award in 2020 for the best new national eID card in EMEA region."

The Recognition

High Security Printing EMEA, the regional forum for secure document technologies, has recognised the Belgian eID card as one of the best in class at prestigious industry awards in March 2020. The award recognises outstanding achievement and technical sophistication of an identification document and promotes the best in system infrastructure and implementation of a government passport or national identity card scheme.

Which IAI personalisation technologies are used on the Belgian eID card?

The Belgian national identity card is completely personalised by IAI's CardMaster® One system. This includes the following applications and technologies:







CHIP ENCODING

All personal data is encoded in the contact and contactless chip.

LASER ENGRAVING

The photograph, personal data and a signature are engraved at the front and back of the card. These are done in combination with a DOVID for additional security. Subsequently, a data matrix code is engraved on the back of the card.

TACTILE LASER ENGRAVING

The "Date of expiry" and MRZ data are tactile engraved at the front and back of the card respectively. This information is burned into the card body creating raised ridges that can be felt with your fingertip.

IMAGEPERF®/TLI (Tilted Laser Image)

A repetition of the holder's photograph is laser perforated through the card, including the last two digits of the National Register number which becomes visible under different viewing angles

IMAGEPERF®/REV

A secondary photo is applied on the REVERSE side of the card which matches the holder's photograph applied on the front side of the card. This personalised first line security feature can easily be checked with the naked eye and validates that front and back sides of the card have not been compromised and the integrity of the document is intact.

VERIFICATION

The applied graphical data is verified with vision technology. Cameras check whether the information is applied correctly. The electronic data on the RFID chip is verified by the inspection system which compares the data from the integrated chip with the data received from the host computer.

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