

# ePassport



## WHAT HAPPENS AT PASSPORT CONTROL

**1** The officer swipes the data page through a special reader to read the two lines of printed characters on the bottom of the data page.

This provides a key that's unique to the passport and lets the process proceed.



**2** The officer holds your open passport over another reader, then checks his view of you **a**, with the photo in your passport **b** and all the data from your passport (including your photo) on the monitor **c**.

The data on the monitor also verifies that your passport was issued by a legitimate authority, and that it has not been altered.



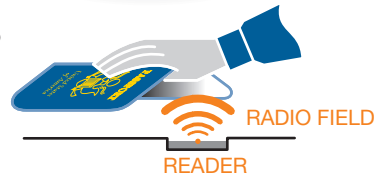
## DETAILS, DETAILS

**3** A chip is embedded into the back cover. It contains data that cannot be read without the security key as shown in step one above.



EMBEDDED CHIP

**4** When the passport is held over the reader (no contact is necessary), a radio field from the reader wakes up the chip, and the encrypted data is transferred to the reader, allowing the officer to conduct his visual check.



RADIO FIELD

READER

## PRIVACY PROTECTION

**5** A thin radio shield can be sandwiched between the front cover and the first page. Whenever the passport is closed—for instance, in your pocket or briefcase—the digital information in the chip cannot be read. The shield will not set off airport metal detectors.



RADIO SHIELD

Source: Gemalto