

μFR e-Passport reader

Version 1.0

Table of contents

Introduction	3
Settings	4
Scanning MRZ zone	6
Reading passport	7
REST Service	10
Revision history	11

ICAO stands for International Civil Aviation Organization (<https://www.icao.int>).



First, you need to choose the NFC reader you wish to use. You can choose between **Phone NFC** or **µFR Reader**. Phone NFC is selected by default.

After that, you need to choose the MRZ input method. You can choose between **Camera** (application will try to optically scan the MRZ zone of e-Passport) or **Manual input** (you need to enter the passport number, date of birth of the document holder and document expiration date).



1. Choose the NFC reader you wish to use:

Phone ☐ μFR Reader ☐

2. Choose MRZ input method:

☒ Camera ☐ Manual input

START

DIGITAL LOGIC

Digital Logic Ltd. is an electronics company from Serbia, built on 50 years of constant innovation and engineering resourcefulness.

To select data you want to read, click on **Settings** at the top right corner of your screen.

Settings

READING SETTINGS

Read personal data	<input checked="" type="checkbox"/>
Extract picture	<input checked="" type="checkbox"/>
Check document validity	<input checked="" type="checkbox"/>

UPLOAD SETTINGS

Host:

e.g. <http://www.website.com/upload.php>

☐ Send data automatically after reading

☐ I have read and understood Privacy Policy and terms of using Send data automatically after reading option

CLOSE

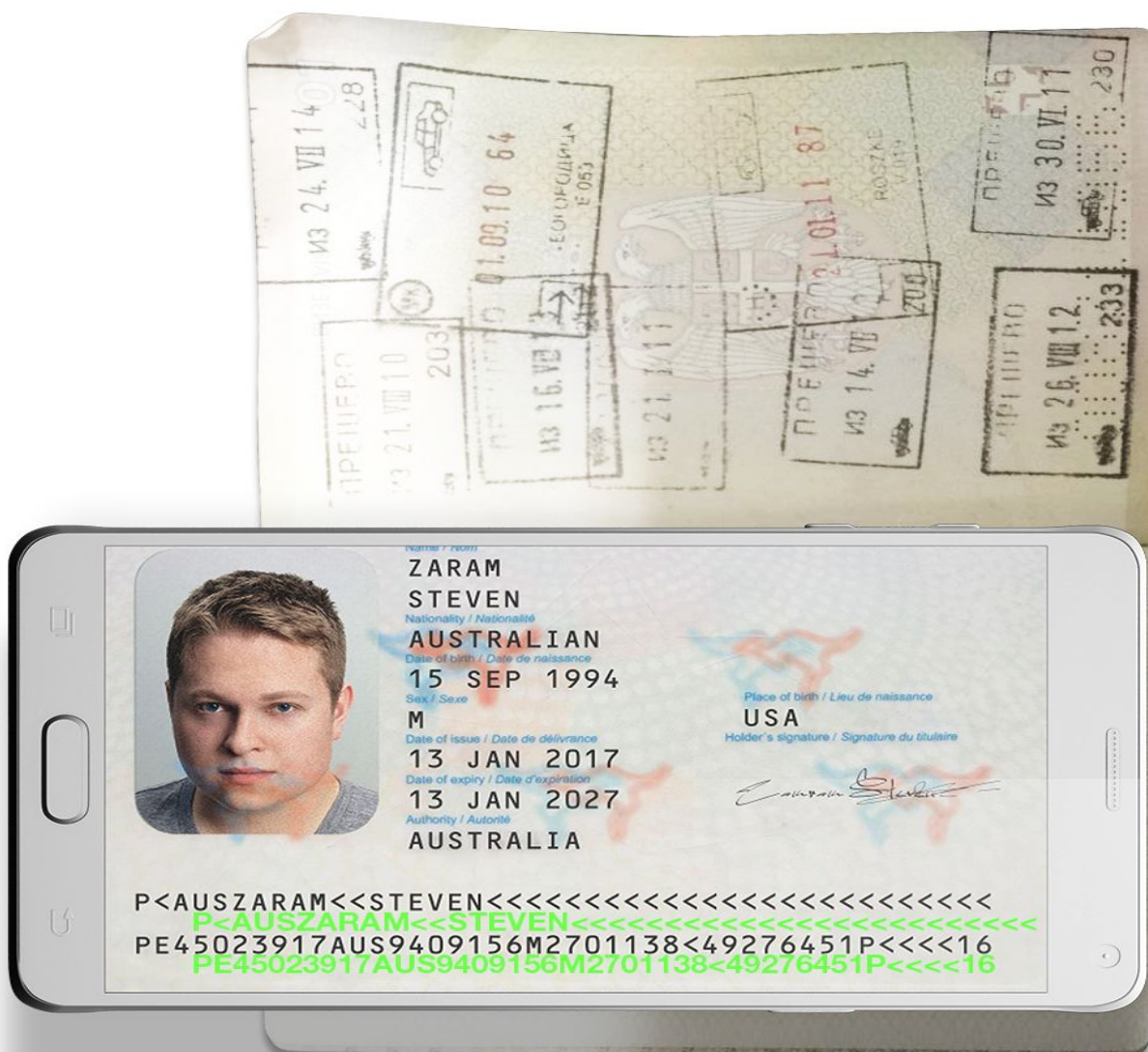
On the Settings screen you will be able to choose which data you want to read. You can uncheck data that you don't want to read. Personal data, picture of the document holder and document validity are checked by default.

You can also configure **Host** for sending extracted data for e-Passport NFC chip.

For **Send data automatically after reading** you will need to check that you understand and agree with **Privacy Policy** and terms of using this option.

Scanning MRZ zone

After successful configuration in Settings and on the main screen, click the **START** button. Application will ask you for Camera permission if you selected Camera as MRZ input method.



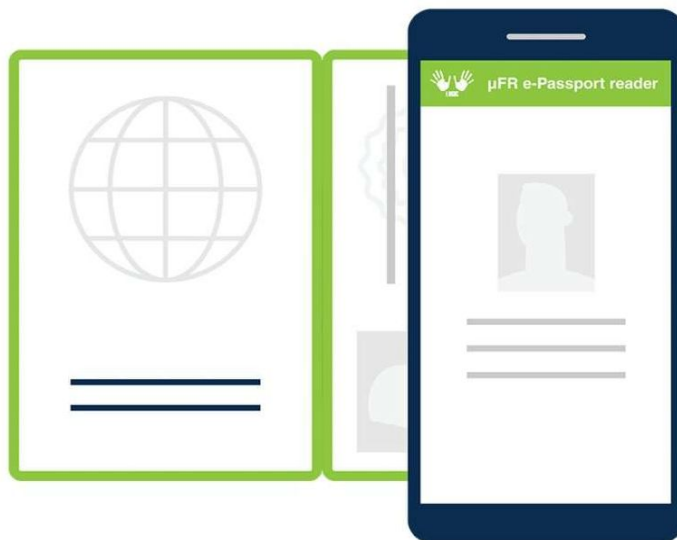
Place your Camera preview at the MRZ zone of e-Passport.

If MRZ was successfully scanned, you will hear 'beep' and reading passport screen will be shown.

Reading passport

If you see message shown on the picture below:

**Place your phone over the
e-passport**

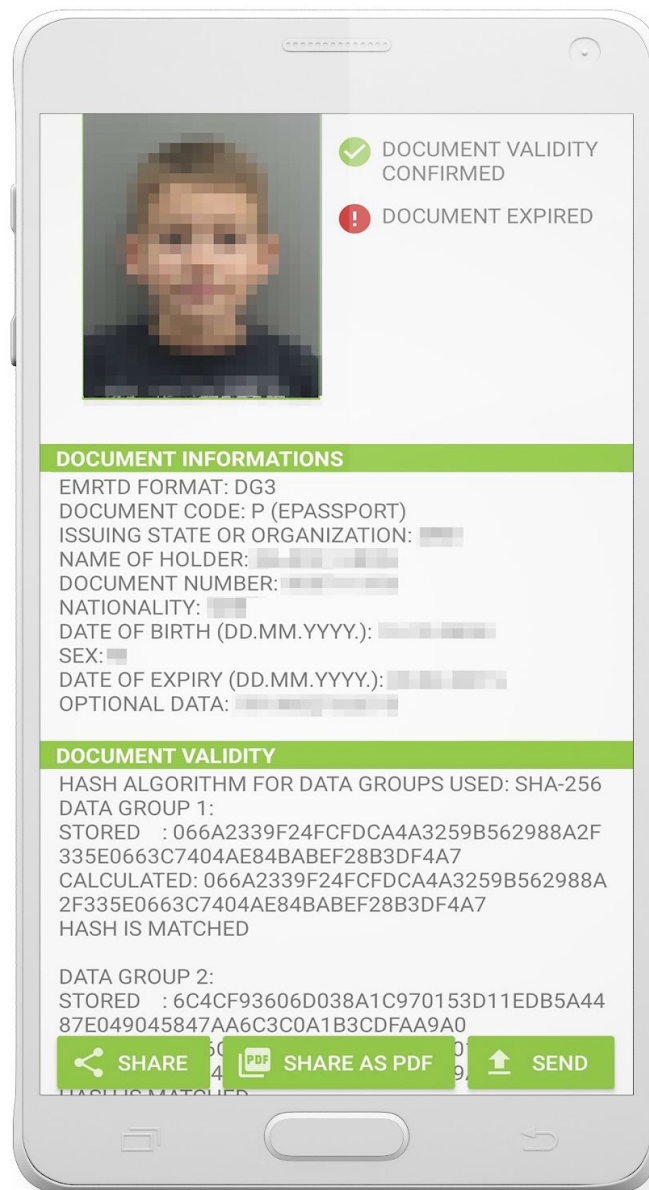


Place your phone over the e-Passport and wait for reading to finish.

Reading looks like this:



When reading is finished you will get something like this:



You have 3 options for sharing data:

1. You can share it as picture + text on **SHARE** option
2. You can share it as PDF file on **SHARE AS PDF** option
3. You can send **HTTP POST** on PHP script defined in **Host** field on **Settings** screen

REST Service

HTTP method is **POST**, it will execute if you click on the **SEND** button after successfully readed passport or will execute immediately (without clicking the SEND button) after reading if you checked the "**Send automatically after reading**" option in **Settings**. In the table below are described all POST parameters:

Parameter name	Descripton
Name	String containing First and Last Name of the document holder
BirthDate	String containing birth date of the document holder in format DD.MM.YYYY.
DocumentNumber	String containing document number
IssuingState	String containing ISO 3166-1 alpha-3 country code
Nationality	String containing ISO 3166-1 alpha-3 country code
Expiration	String with value "DOCUMENT ACTIVE" if document is active or "DOCUMENT EXPIRED" if document is expired
Validation	String with value "VALIDITY CONFIRMED" if document validity is confirmed, otherwise "VALIDITY NOT CONFIRMED"
Picture	String containing picture of the document holder in Base64 format

If some of the data are not readed, String with value "**NOT READ**" will be sent instead of parameter.

Revision history

Date	Version	Comment
2020-02-03	1.0	Base document