

SUPrema

RealPass-F

Multi-functional ID Card & Passport Reader

User Manual

Version 1.0



1. Introduction

1.1 RealPass-F

RealPass-F is a multi-functional ID document and passport reader that can read variety of data such as OCR, photos, characters, barcodes, contact and contactless smart chips. As an e-passport reader,



RealPass-F provides full-page, one-step reading of visual data page and RF chip data of ICAO standard passports. For high-level security in immigration clearance, RealPass-F. Sealed in IP54 rated rugged structure, the device features USB 2.0 power and data transfer interface. RealPass-F is an ideal all-in-one device to read

both electronic ID cards and travel documents.

1.2 Application

- Immigration clearance
- Cuss & self check-in kiosk
- Automated immigration clearance system (Autogate)
- e-Passport issuance

1.3 Benefits

- Automatic scanning of VIZ and RFID of ICAO documents.
- Reads various type of cards including national ID's and Driver's licenses.
- Support contact/contactless smartcard and SAM slot.
- Fast recognition speed and low error rate.

FCC Rules

Caution

Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Information to User

This equipment has been tested and found to comply with the limit of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation; if this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient / Relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help

1.4

Features

- Compact size and ergonomic design
- Powered from external power supply.
- Flexible OCR to read various documents type
- ISO 14443 A/B contactless RFID, ISO7816 contact card.
- Reads 1D and 2D barcodes.
- Multi-color LED and beep sound for intuitive user interface
- Provides SDK for easy integration into any systems

1.5

Specifications

Dimension (W x D x H, mm)	With cover: 167 x 192 x 94 Without cover: 167 x 192 x 89
Window Size (W x L, mm)	130 x 90mm
Weight	0.95kg
Image Resolution	450dpi
Image Color Depth	24 bits / pixels
Light Sources	Visible, IR
Processing Time	Image Capture(WH,IR) and MRZ Reading < 3 sec
Ingress Protection	IP54
RF & Smart card	ISO 14443 A/B contactless RFID ISO 7816 contact smartcard
Operating Temperature	0°C ~ 40°C
Power Supply	5V 1A DC Adaptor
Data Interface	USB 2.0
Operating Systems	Windows XP(32/64bit), Vista(32/64bit), 7(32/64bit)
SDK	Full SDK including DLLs with a demo program
TWAIN Driver	TWAIN 2.1 or higher (for windows)
Support Language	VC++, VB.net, C#, C++ Builder, Delphi

2. Exterior

2.1 Top View



2.1.1 Indication LED

(1) RF

- Green: Lighted when RF reading succeeded.
- Red: Lighted when RF reading failed.
- Blue: Lighted when RF recognition is operating.

(2) OCR

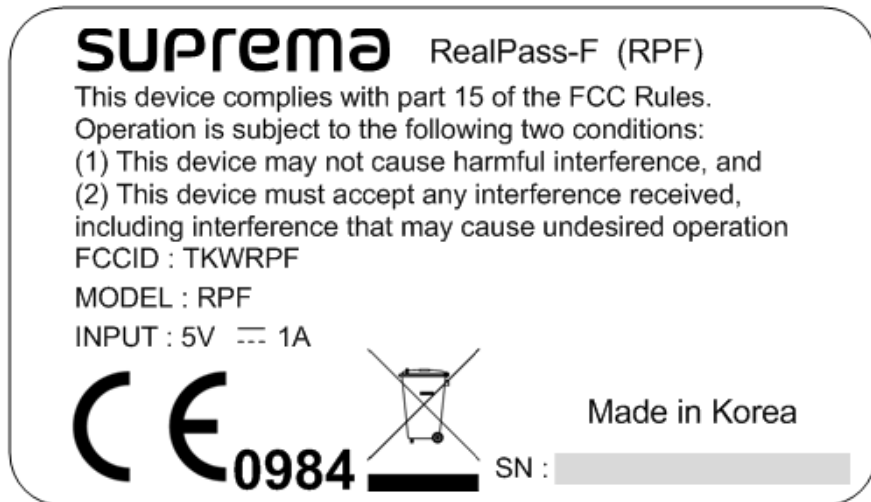
- Green: Lighted when OCR reading is succeeded.
- Red: Lighted when OCR reading failed.
- Blue: Lighted when OCR is operating.

(3) PWR (Power)

- Red: Lighted when the device is supplied with power source.
- Green: Lighted when the device is connected with Realpass application (SDK).

2.2

Device Label



- Provides basic information.
- Includes interface, power specifications, certification marking, and device number

3. Installation

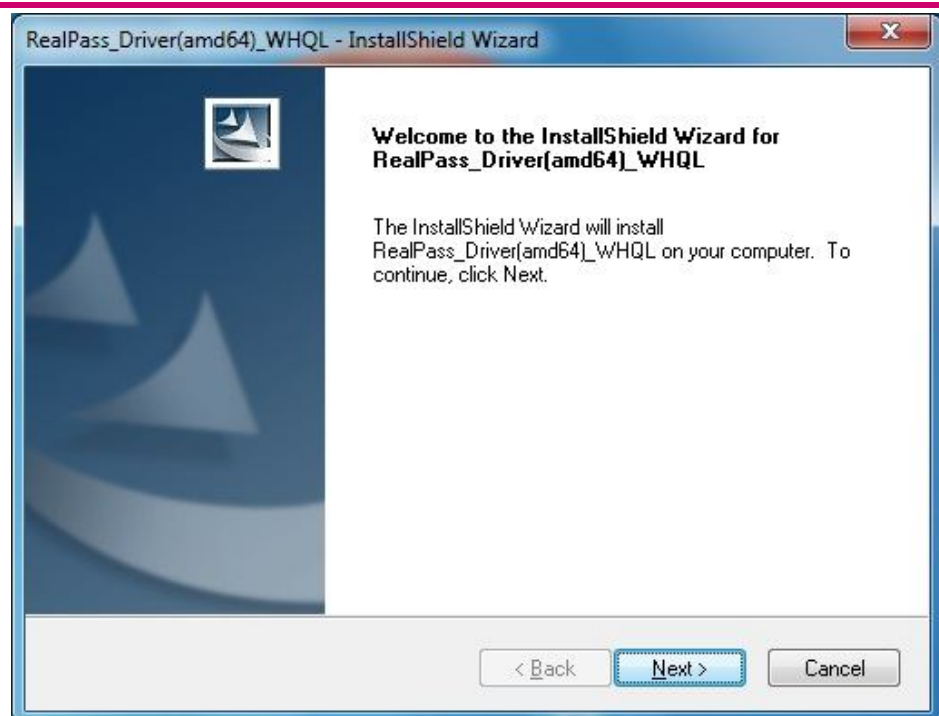
3.1 Device driver Installation

3.1.1 Installation program check and execution (x86 / x64)



Execute “RealPass_Driver(x86).exe” for x86 system or “RealPass_Driver(amd64)_WHQL.exe” for x64 system.

3.1.2 Start InstallShield Wizard



Click “Next”

3.1.3 Customer Information

RealPass_Driver(amd64)_WHQL - InstallShield Wizard

Customer Information
Please enter your information.

Please enter your name and the name of the company for which you work.

User Name:
ICS

Company Name:
Suprema

InstallShield

< Back Next > Cancel

Enter your information and Click "Next"

3.1.4 Select the setup type

RealPass_Driver(amd64)_WHQL - InstallShield Wizard

Setup Type
Select the setup type to install.

Please select a setup type.

Complete
All program features will be installed. (Requires the most disk space.)

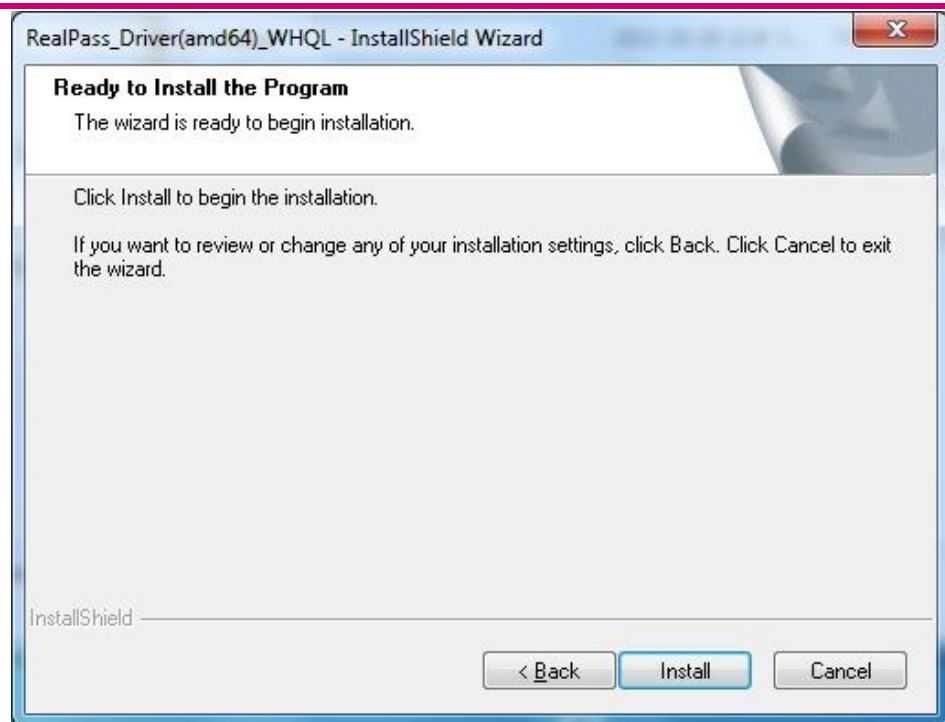
Custom
Select which program features you want installed. Recommended for advanced users.

InstallShield

< Back Next > Cancel

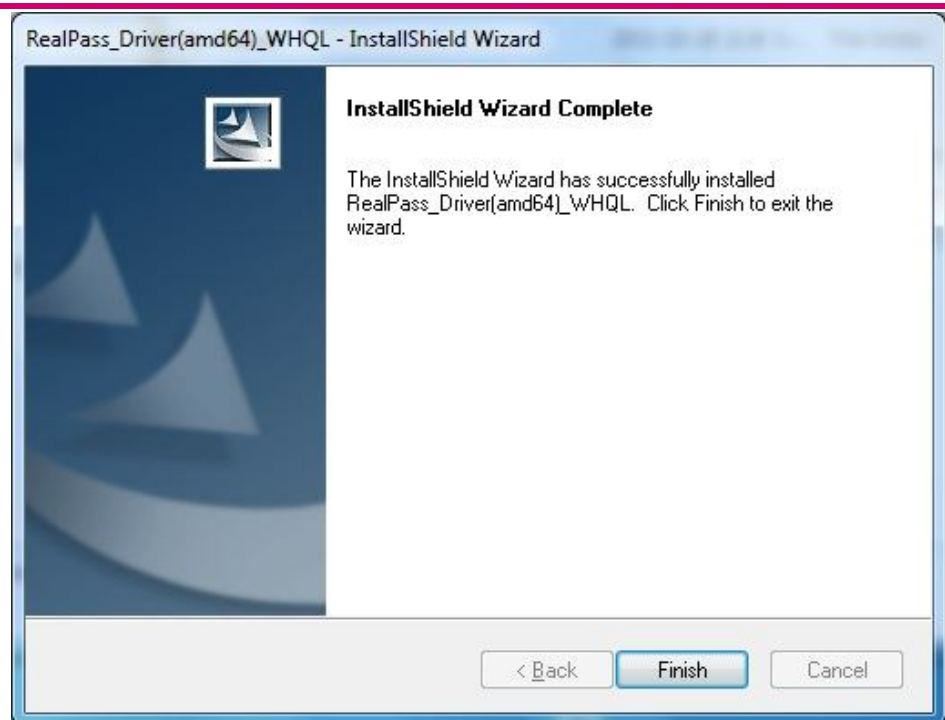
Select "Complete" and Click "Next"

3.1.5 Ready to Install the Program



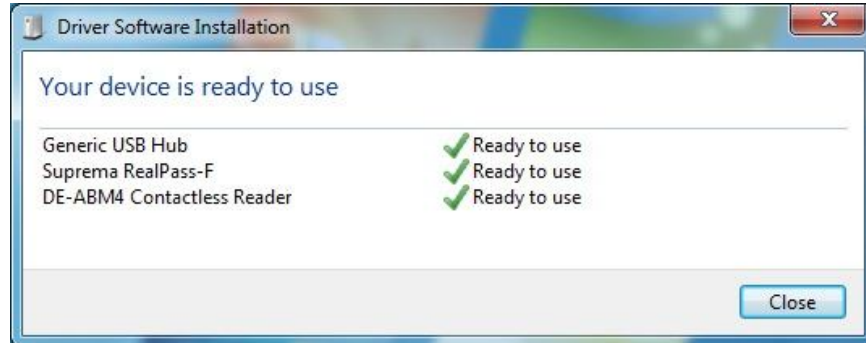
Click "Install"

3.1.6 Completion of driver installation



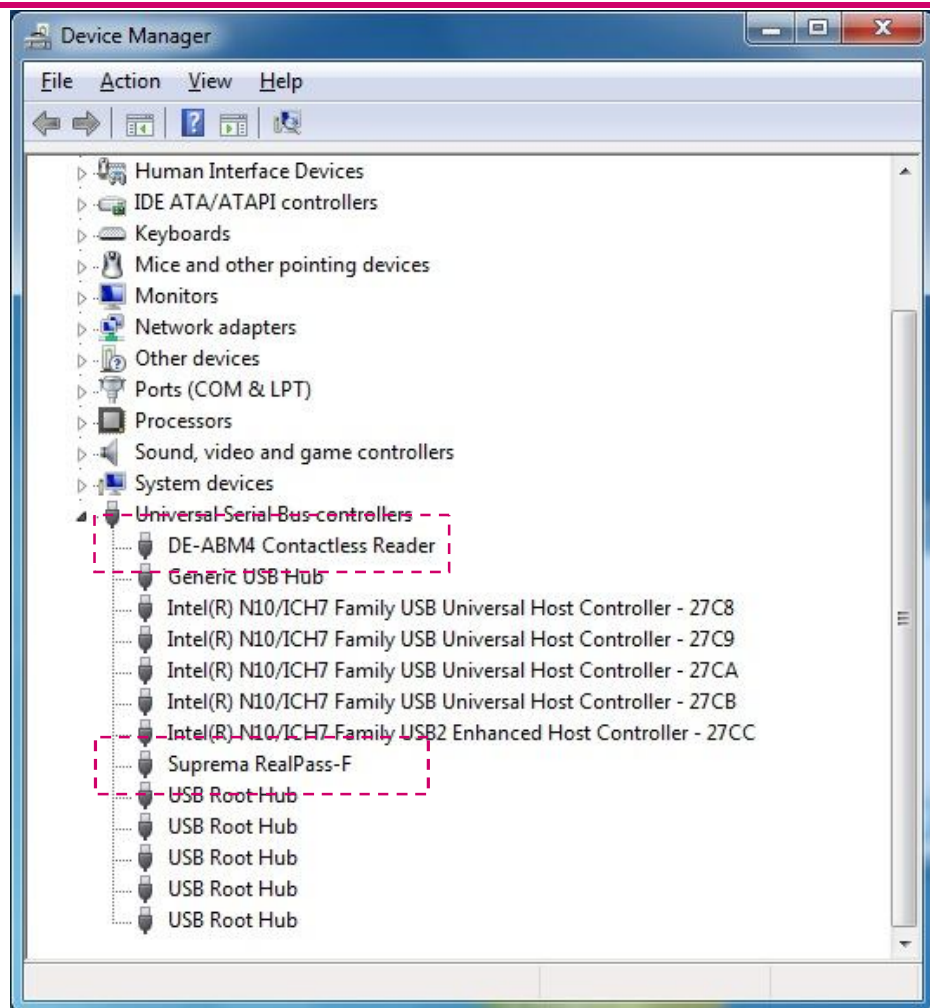
Click "Finish"

3.1.7 Driver Software Installation



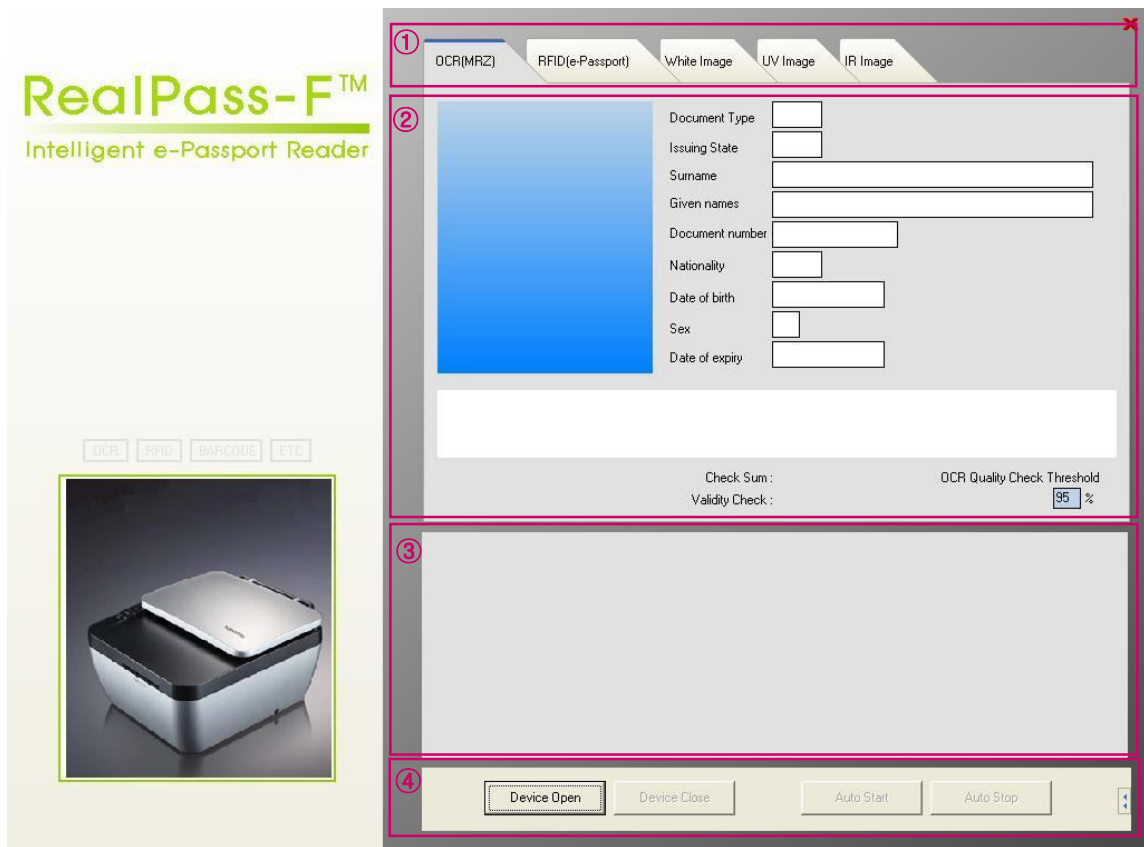
Connect the device's USB cable to a PC and Driver is installed automatically.

3.1.8 Check using Device Manager.



3.2 Using Software

3.2.1 Initial Screen



- ① **Tabs**
- ② **Reading Result Panel**
- ③ **Log Panel**
- ④ **Control Panel**

3.2.2 Tabs

- 1) OCR(MRZ) : VIZ reading results are displayed on the Panel.(Photo, MRZ)
- 2) RFID(e-Passport) : RF reading results are displayed on the Panel
(DG1, DG2)
- 3) White Image : The image scanned by White LED is displayed on the Panel
- 4) IR Image : The Image scanned by IR light is displayed on the Panel.

