

# OCR602 Scan Software

## User Guide

PLT-08275, A.1  
May 2025



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## Contacts

For technical support, please visit: <https://support.hidglobal.com>.

## What's new

Date	Description	Revision
May 2025	Updates images to show OCR602 product name.	A.1

A complete list of revisions is available in [Revision history](#).

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# Section 01

Introduction

## 1.1 Overview

The OCR602 Scan Software is Windows software for ID Card document readers. The OCR602 Scan Software provides a graphical display that delivers an instant visual snapshot of document data such as MRZ data, RFID data, and face image. More advanced users can take advantage of its powerful programming interface, which allows the software to be integrated into larger systems.

The OCR602 Scan Software can perform:

- Machine Readable Zone (MRZ) capture and display.
- Radio-Frequency Identification (RFID) capture.

You can use the OCR602 Scan Software with the following HID Access-IS™ OCR602 document readers:

- ID card reader OCR602.

# Section **02**

Getting started

## 2.1 Connect the ID card reader to the host

To begin, connect your document reader directly to a USB port on the host computer. Ensure that the host is running Windows 7.0 or above.

When you connect your document reader to a USB port for the first time, Windows automatically detects the device and installs the required standard Windows drivers, which may take a few minutes. No additional drivers are needed.

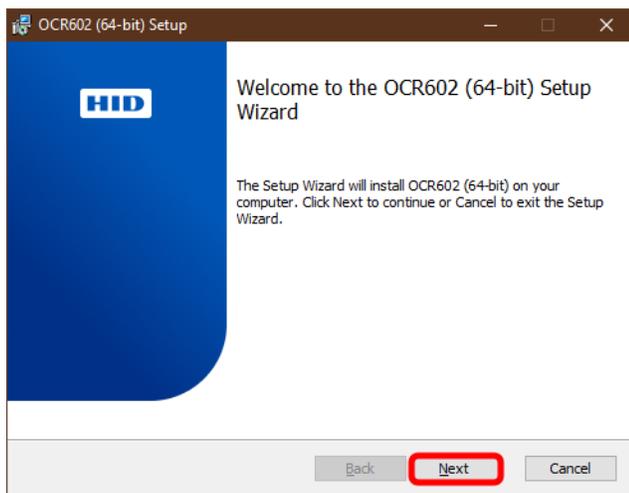
## 2.2 Install the software

Before you install the OCR602 Scan Software, make sure that your computer meets the minimum hardware requirements and is running Windows 7 or above.

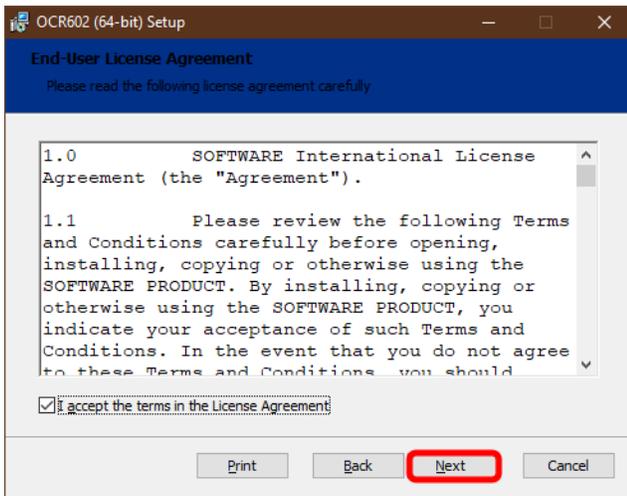
**Note:** You can install the software before or after you connect your document reader to the host computer.

To install the software, follow these steps:

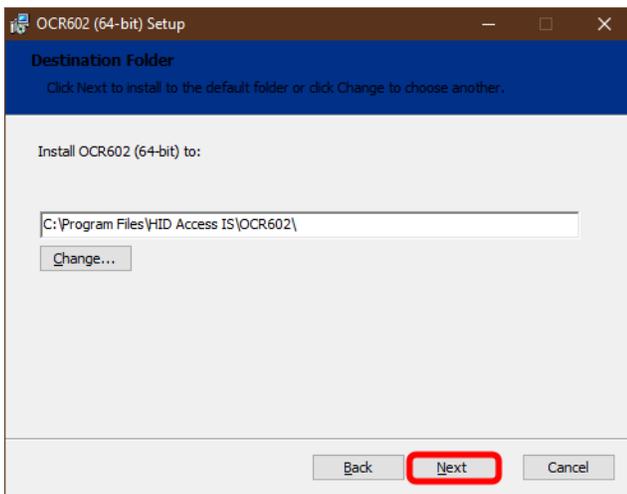
1. Get the latest version of the OCR602 Scan Software from the HID Developer Portal (<https://developers.hidglobal.com/>).
2. Extract the contents of the downloaded file to a folder on your computer.
3. Choose the x64 (64-bit) or x86 (32-bit) version to install.
4. If you choose the x64 version, run the OCR602\_Installer-x64-*{version-number}*.msi file. The OCR602 Scan Software Setup dialog box appears.



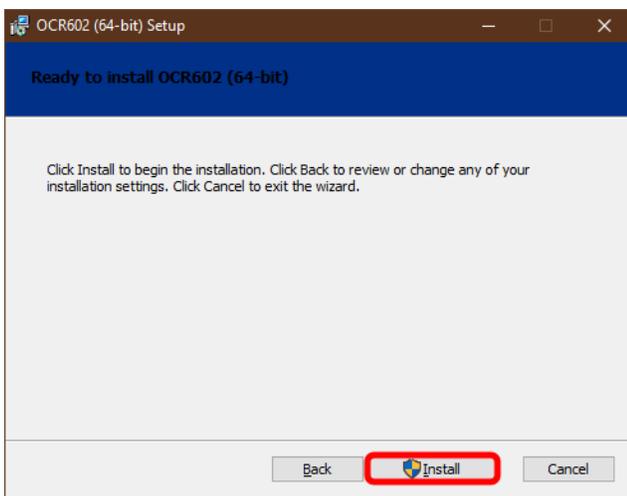
5. Click **Next** to continue and display the License Agreement page.



6. Click **Next** and choose the installation folder.



7. Click **Next** then **Install** to start the installation.



## 2.2.1 What gets installed and where?

By default, the installer installs all the necessary software, API components, and documentation in the following location:

32-bit version: **C:\Program Files (x86)\HID Access IS\OCR602**

64-bit version: **C:\Program Files\HID Access IS\OCR602**

You can access the OCR602 Scan Software, the Software Development Kit (SDK), and documentation under the installed folders:

**\HID Access IS\OCR602\SDK\Document Reader Sample Code C#\**

**\HID Access IS\OCR602\SDK\Document Reader Sample Code C++\**

Additionally, a shortcut to the application is added to the Windows Start menu.

## 2.2.2 Prerequisites

- .NET Framework 4.8  
<https://download.visualstudio.microsoft.com/download/pr/2d6bb6b2-226a-4baa-bdec-798822606ff1/8494001c276a4b96804cde7829c04d7f/ndp48-x86-x64-allos-enu.exe>
- VC runtime redistributable  
[https://aka.ms/vs/17/release/vc\\_redist.x86.exe](https://aka.ms/vs/17/release/vc_redist.x86.exe)

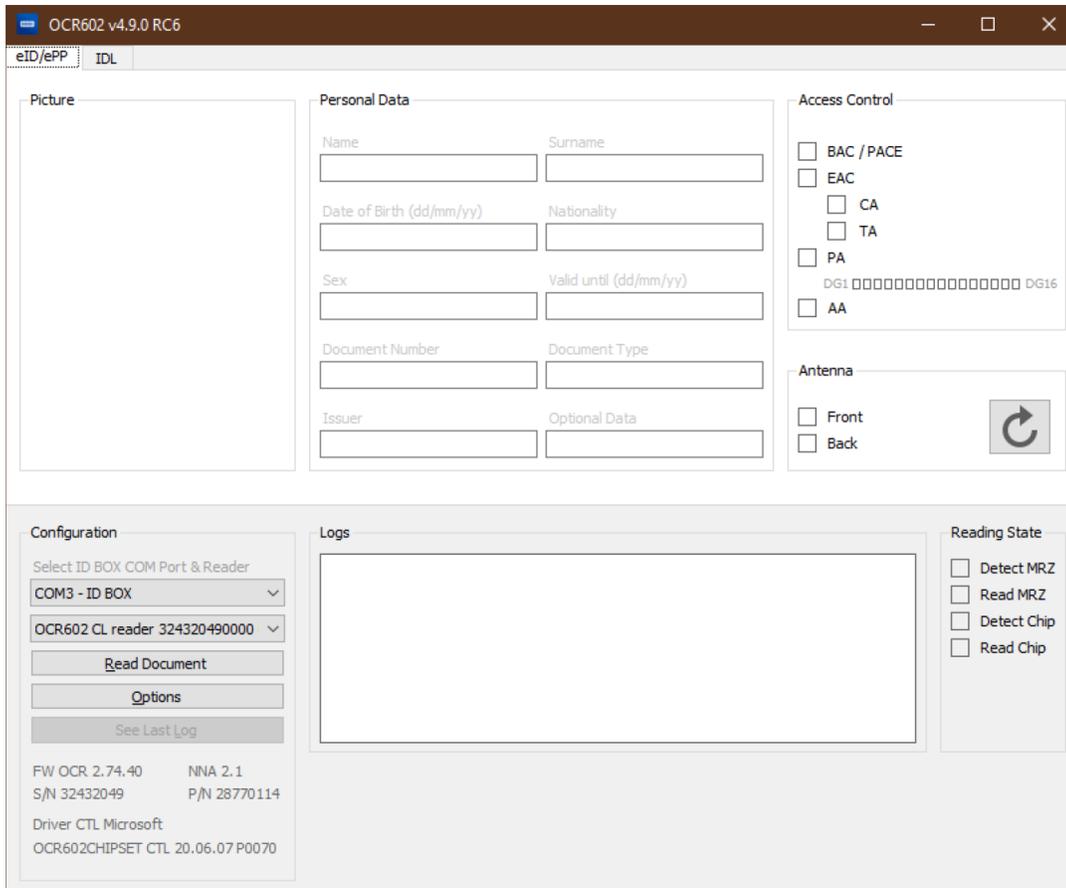
# Section **03**

Application window

### 3.1 Overview

Start the OCR602 application front end (OCR602.exe, in the installation folder).

#### ID card reading main screen



### Driving license card reading main screen

OCR602 v4.9.0 RC6

eID/ePP IDL

Picture

Personal Data

Family Name Given Names

Birth Date Issuing Date

Expiry Date Issuing Country

Licence Number Categories

Issuing Authority

Access Control

BAP / PACE

EAC

CA

TA

PA

DG1  DG16

AA

Configuration

Select ID BOX COM Port & Reader

COM3 - ID BOX

OCR602 CL reader 324320490000

Read Document

Options

See Last Log

FW OCR 2.74.40 NNA 2.1

S/N 32432049 P/N 28770114

Driver CTL Microsoft

OCR602CHIPSET CTL 20.06.07 P0070

Logs

Reading State

Detect MRZ

Read MRZ

Detect Chip

Read Chip

## Options screen

**Options**

DataGroup Reading Options

BAC BAP

Select	Datagroup	Content	Supported
<input type="checkbox"/>	0	Card Access	Yes
<input checked="" type="checkbox"/>	1	MRZ Data	Yes
<input checked="" type="checkbox"/>	2	Encoded Face	Yes
<input type="checkbox"/>	3	Encoded Finger(s)	Yes
<input type="checkbox"/>	4	Encoded Eye(s)	Yes
<input type="checkbox"/>	5	Displayed Portrait	No
<input type="checkbox"/>	6	Reserved	No
<input type="checkbox"/>	7	Displayed Signature or Usual Mark	Yes
<input type="checkbox"/>	8	Data Feature(s)	No
<input type="checkbox"/>	9	Structure Features	No
<input type="checkbox"/>	10	Substance Feature(s)	No
<input type="checkbox"/>	11	Additional Personal Detail(s)	Partially
<input type="checkbox"/>	12	Additional Document Detail(s)	Partially
<input type="checkbox"/>	13	Optional Detail(s)	Yes
<input type="checkbox"/>	14	EAC Public Key Info	Yes
<input type="checkbox"/>	15	AA Public Key Info	Yes
<input type="checkbox"/>	16	Person(s) to notify	No

Access control options

Auto (PACE/BAC/BAP)  
 BAC/BAP  
 PACE

Password type

Ask every time  
 MRZ *default CAN*  
 CAN

Reading Options

Passive Authentication  
 Active Authentication (if DG15 present)  
 Chip Authentication (if DG14 present)  
 Terminal Authentication (if Chip Auth is active)

Additional options

Auto detect  Enable Log  
 Enter MRZ manually  Save in CSV file  
 Find antenna during read

CSV path: |Documents|OCR602|

Card configuration

APDU Selection

Certificates for Passive Authentication

CSCA:    
(Optional) External DS:

Certificates for Terminal Authentication

(Optional) CVCA Link:    
DV:    
IS:    
IS Private Key:

DataGroup Reading Options

BAC BAP

Select	Datagroup	Content	Supported
<input checked="" type="checkbox"/>	1	Mandatory text data elements	Yes
<input type="checkbox"/>	2	Optional licence holder details	No
<input type="checkbox"/>	3	Optional issuing authority details	No
<input checked="" type="checkbox"/>	4	Optional portrait image	Yes
<input checked="" type="checkbox"/>	5	Optional signature / usual mark image	Yes
<input checked="" type="checkbox"/>	6	Optional facial, fingerprint, iris and other biomet...	Yes
<input type="checkbox"/>	7	Optional facial, fingerprint, iris and other biomet...	No
<input type="checkbox"/>	8	Optional facial, fingerprint, iris and other biomet...	No
<input type="checkbox"/>	9	Optional facial, fingerprint, iris and other biomet...	No
<input type="checkbox"/>	10	Reserved	No
<input type="checkbox"/>	11	Optional domestic data	No
<input type="checkbox"/>	12	Non-match alert	No
<input type="checkbox"/>	13	Active Authentication	Yes
<input type="checkbox"/>	14	Extended Access Protection	Yes

## 3.2 MRZ processing options page

The MRZ processing **Options** page provides settings to manage the reading and authentication of Machine-Readable Zone (MRZ) data from identity documents.

### 3.2.1 Sections and features

#### DataGroup Reading Options

This section lets you select specific data groups to read from documents.

- **BAC/BAP:** Select between Basic Access Control (BAC) or Basic Access Protection (BAP) based on your document's security type.
- **DataGroup | Content**
  - Card Access: Information about card access security (auto-selected).
  - MRZ Data: Reads Machine Readable Zone information.
  - Encoded Face: Reads the encoded facial data.
  - Encoded Finger(s): Reads encoded fingerprint data (if available).
  - Mandatory Text Data Elements: Essential text information from the document.
  - Optional Signature/Usual Mark Image: Reads the signature or usual mark image if available.
  - Active Authentication: Actively validates the chip authenticity.
  - Extended Access Protection (EAC): This is an enhanced security feature providing additional protection.
  - Additional groups: Optionally select other available groups, such as additional biometric data, personal details, or public keys.

#### Access control options

Defines how the application accesses data on secured documents:

- Auto (PACE/BAC/BAP): Automatically selects the appropriate authentication method.
- BAC/BAP: Explicitly selects BAC or BAP authentication.
- PACE: Password Authenticated Connection Establishment.

#### Password type

Specifies how the document password is provided:

- Ask every time: Prompts for password entry on each read.
- MRZ: Uses the MRZ data as the password.
- CAN: Uses the Card Access Number (default CAN is configurable).

#### Reading options

Allows further security checks:

- Passive Authentication: Validates the authenticity of the data using stored certificates.
- Active Authentication: Performs active validation if supported by the document.
- Chip Authentication: Validates chip security (DG14 must be present).
- Terminal Authentication: Validates the terminal with a certificate (if the chip supports this).

## Additional options

Extra configurations for ease of use and troubleshooting:

- Auto detect: Automatically detects document types.
- Enter MRZ manually: Allows manual entry of MRZ if automated reading fails.
- Find antenna during read: Helps in positioning the document correctly for reading.
- Enable Log: Enables logging of read operations for debugging purposes.
- Save in CSV file: Saves read data to a CSV file for record-keeping. Click **Open file** to choose the storage location.

## Card Configuration

- APDU Selection: Selects how APDU commands are handled (default: Automatic).

## Certificates for Passive and Terminal Authentication

If authentication options are selected, this area lets you provide the necessary certificates:

- CSCA: Country Signing Certificate Authority certificate for Passive Authentication.
- External DS: Optional external Document Signer certificate.
- Terminal Authentication certificates: Provide a CIV/CA link, DV, IS, and IS Private Key if Terminal Authentication is active.

## 3.2.2 How to Use

1. Select the desired data groups.
2. Set access control and authentication preferences.
3. Configure additional settings based on your reading and logging requirements.
4. Click **OK** to save your configuration or **Cancel** to discard the changes.



## Personal Data

- **Name/Surname:** Displays the holder's name.
- **Date of Birth:** Holder's birthdate.
- **Nationality:** Nationality of the document holder.
- **Sex:** Holder's gender.
- **Valid Until:** Expiration date of the document.
- **Document Number/Type:** Identifier and type of document.
- **Issuer:** Document issuing authority.
- **Optional Data:** Any additional optional data.

## Access Control

Select the applicable security checks:

- **BAC/PACE:** Basic Access Control or Password Authenticated Connection Establishment.
- **EAC** (Extended Access Control):
  - **CA** (Chip Authentication).
  - **TA** (Terminal Authentication).
- **PA** (Passive Authentication).
- **AA** (Active Authentication).

## Antenna

Select antenna position:

- **Front** or **Back:** Choose the appropriate antenna position for optimal reading.
- Click the refresh button to reset the antenna selection.

## Configuration

- **Select ID BOX COM Port & Reader:** Choose the correct COM port and reader model for your connected hardware. If there is only one supported device, the software selects the device automatically.
- **Read Document:** Initiates the reading process.
- **Options:** Opens the advanced settings.
- **See Last Log:** View details of the last reading session if file logging is activated.

## Logs

- Displays operational logs and any errors encountered during reading processes.

## Reading State

Shows the current status of reading processes:

- **Detect MRZ:** Detecting the MRZ area.
- **Read MRZ:** Reading MRZ data.
- **Detect Chip:** Checking chip presence.
- **Read Chip:** Reading chip data.



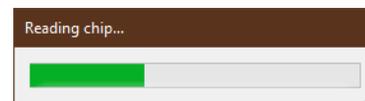
## MRZ data

Shows the processed MRZ data in reading processes.

```
I<UTOCARD0003<1HID<GLOBAL<<<<<
8509303M2601294UT0<<<<<<<<<<<<5
HADDAD<<MOHAMED<<<<<<<<<<<<<<<<
```

## Chip data processing

Shows the reading chip process in reading processes.



## Bad MRZ data processing

Shows the error if there is bad MRZ data read during the reading processes.

Logs

```
Error while reading/parsing MRZ: Object reference not set to...
```

Reading State

- Detect MRZ
- Read MRZ
- Detect Chip
- Read Chip

```
TOCARD0003<1HID<GLOBAL<<<<<_M
9303M2601294UT0<<<<<<<<<<<<<5MP_
DAD<<MOHAMED<<<<<<<<<<<<<<<<---
```

## 3.4 File locations

If the OCR602 Scan Software is installed in the default folder, then the file locations are as follows.

### 3.4.1 Base folder

This is the folder where the SDK is installed:

32-bit installation: **C:\Program Files (x86)\HID AccessIS\OCR602**

64-bit installation: **C:\Program Files\HID AccessIS\OCR602**

Under the base folder there are two subfolders.

### 3.4.2 Documentation

This folder holds the SDK documentation.

### 3.4.3 Console App & SDK

This folder holds all the example applications, with source code, that interface to the DLLs. All the example applications come with a C++ and C# versions. Depending on what you select at installation time, the following applications are available.

- Document reader sample: Shows all the main functionality of MRZ, barcode, and RFID reading.

The sample application demonstrates the main functions in the APIs but is not a comprehensive list of all the available calls.

## 3.5 Configuration files

As part of the installation, a configuration file is installed. The location of the file is shown below:

C:\Users\*<username>*\Documents\OCR602

OCR602.ini is a configuration file for storing the latest updated configuration of the device.

## 3.6 Supported devices

The following scanner types can be used with the installed software:

- Photo ID reader OCR602.

## Revision history

Date	Description	Revision
May 2025	Updates images to show OCR602 product name.	A.1
April 2025	Initial release.	A.0



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