



ID INFO 9000

Manual

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1 Introduction

The ID Info 9000 integrates face recognition, temperature measurement, card swiping, QR code reading and ID card reading. It has four communication modes: RS485, Wiegand, Ethernet and WiFi. Card swiping and QR code reading can be configured into the above outputs.

After successful card swiping or QR code recognition, the device will verify the access locally and will directly output the access signal for e.g. opening a door or turnstile. Face recognition adopts the local verification method. The face inventory is stored locally on the device.

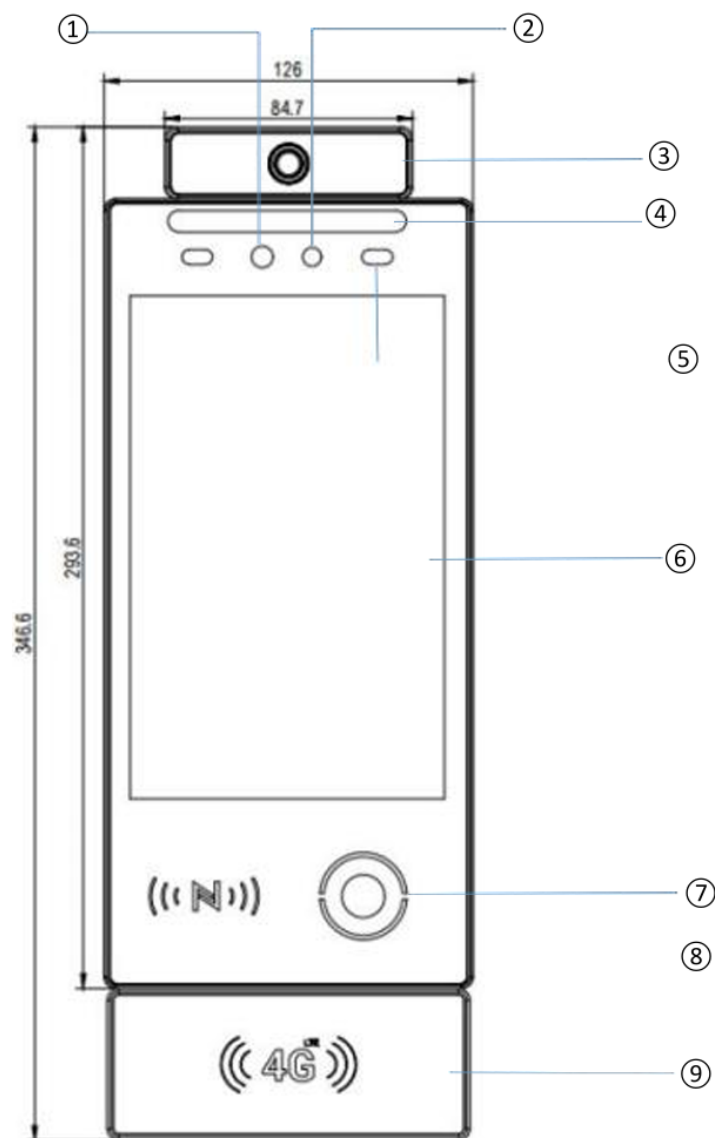
After successful verification, the personnel ID can be output and sent to a server or verification device. The output method can also adopt one of the above four methods.

This product features 8-inch touch screen, voice broadcast, reserved microphone, and good interactivity as well as ease of use.

The ID Info 9000 device supports protocol mode, and users can conduct secondary development according to the provided communication protocol.

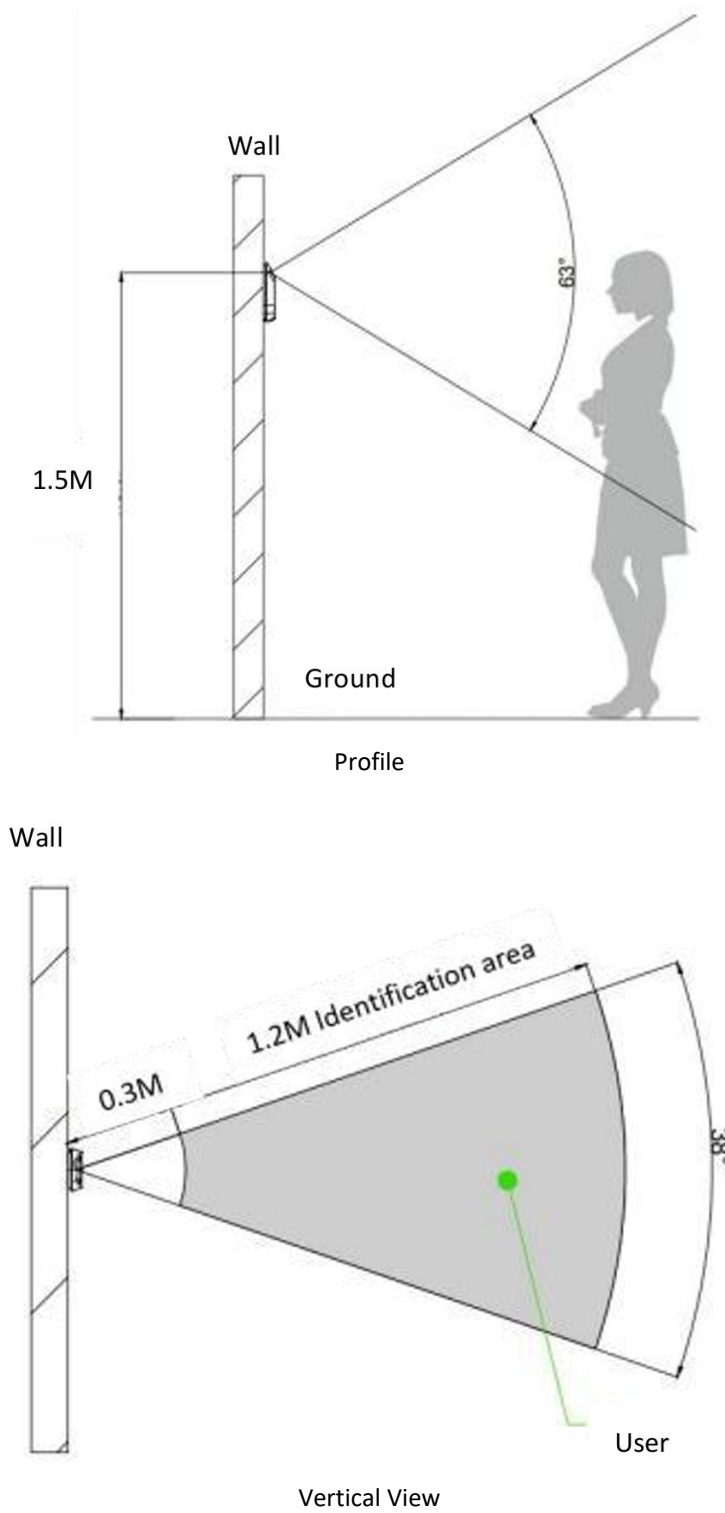


1.1 Interface Definition



Number	Definition
1	Infrared camera
2	RGB camera
3	Temperature probe (optional)
4	White fill light
5	Infrared fill light
6	8 inch high brightness LCD touch screen
7	QR code scanning module
8	RFID card reader

1.2 Wall Mount



1.3 Technical Parameters

Product Parameters	
System parameter	OS: Linux Storage capacity: 8GB (16GB & 32 GB expandable) Processor: ARM Cortex A7 MP2 1GHz

Display Screen	Size: 8 inch LCD touch screen Resolution ratio: 1280x800	
Communication Mode	Wired: 1x 10/100M adaptive network port Wireless: 2.4G WiFi 1x RS485 1x Wiegand 26 / Wiegand 34	
Physical Interface	Relay: 30V1A 2 Alarm signal input interface	
Power Supply	Supply voltage: 9-24V (DC) – 12V power supply is recommended Max. 16W	
Camera	RGB camera	Field angle: D=65° H=59° V=38° Aperture: 2.0 Resolution ratio: 1920x1080 Focal length: 4.35mm
	Infrared camera	Field angle: D=68° H=60° V=40° Aperture: 2.2 Resolution ratio: 1616x1232 Focal length: 2.35mm
Temperature Measurement	Accuracy: within one meter +/- 0.5 °C Working temperature: 10 °C – 35 °C	
Speaker	2x Built-in 8 Ω 1W speaker	
Material	Fireproof ABS + organic glass	
Working Temperature	-20 °C – 55 °C	
Working Humidity	10% - 90% (No condensation)	
IP Grade	Electrostatic protection: Contact 8KV, Air 12KV Dust proof and waterproof grade of non-temperature measurement version: IP66 (other versions are not waterproof)	

RFID Reader Parameters

Antenna Specification	13.56 MHz
Antenna Size	48 mm x 33 mm
Reading Distance	0-5 cm (may vary with different card types and specifications)
Supported Card Type	S50, S70, FM1208, FM1216-137, MIFARE CLASSIC EV1 4K(S70), MIFARE DESFIRE EV2 D42, UL, FM12081K+7K, NTAG216, Ultralight C, ULEV1, DESFIRE EV2 D41, Ultralight EV1, Mifare Desfire EV2 D82, IDcard

QR Code Scanner Parameters

Standards	Two-dimensional (QRCode, PDF417 etc)
Support Device	Mobile Screen/Paper code
Image Sensor	640x480
Reading Direction	Tilt +/- 40°, Rotation +/- 360°, Deflection +/- 30° Level: 62° Vertical: 49°
Precision	≥ 7mil
Reading Distance	0-10 cm
Scanning Feedback	Voice prompt
Ambient Illumination	0-80000 Lux

Face Recognition Parameters

Supports mask detection
N algorithm dynamic face detection (anti photo, video attack)

Hardware infrared living detection (anti photo, video attack)

5000 Face capacity

Reading distance: 0.3-1.5 m

Pass rate: $\geq 97\%$

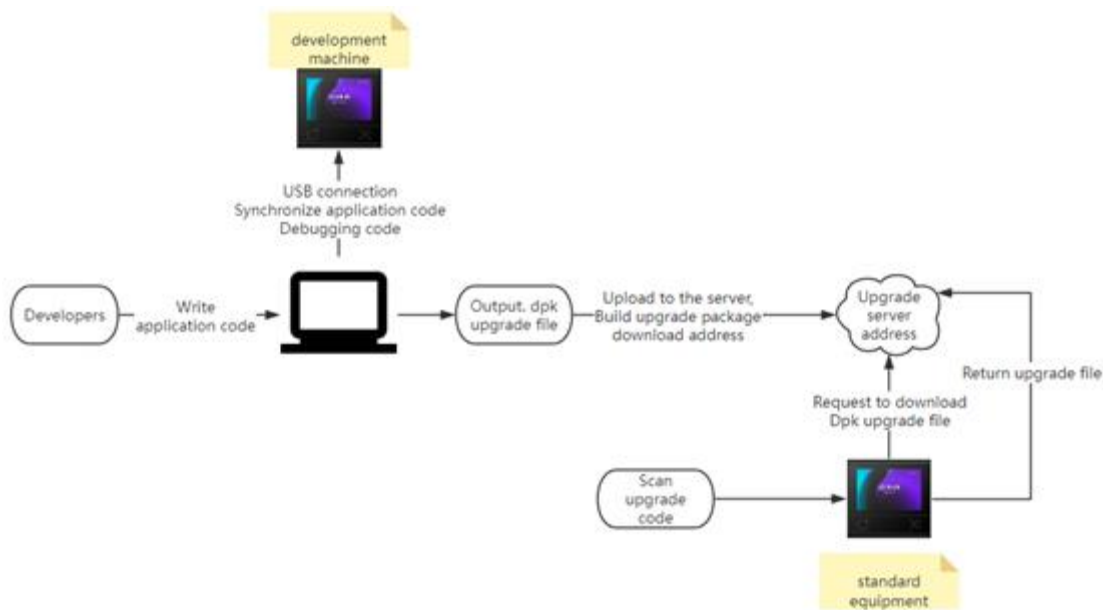
Error rate: $\leq 0.01\%$

Reading time: < 0.3 s

2 Functional Description

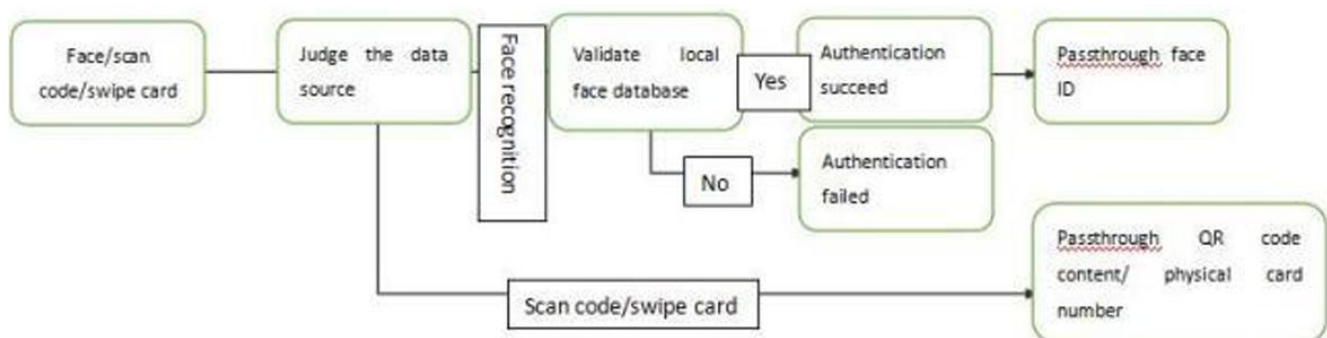
The ID Info 9000 has a built-in [DejaOS](#) system. Developers can download a VSCode Extension to establish communication with the device and use JavaScript to develop software for using the touch screen, UI display, QR-Code scanning, RFID card reading, voice broadcast, networking, access control and other related functions. The VSCode Extension can also be used to synchronize the developed application to the device.

Devices with system version 2.1.0+ additionally have an internal device manager. It is described in more detail in the Device Manager documentation in the SDK.



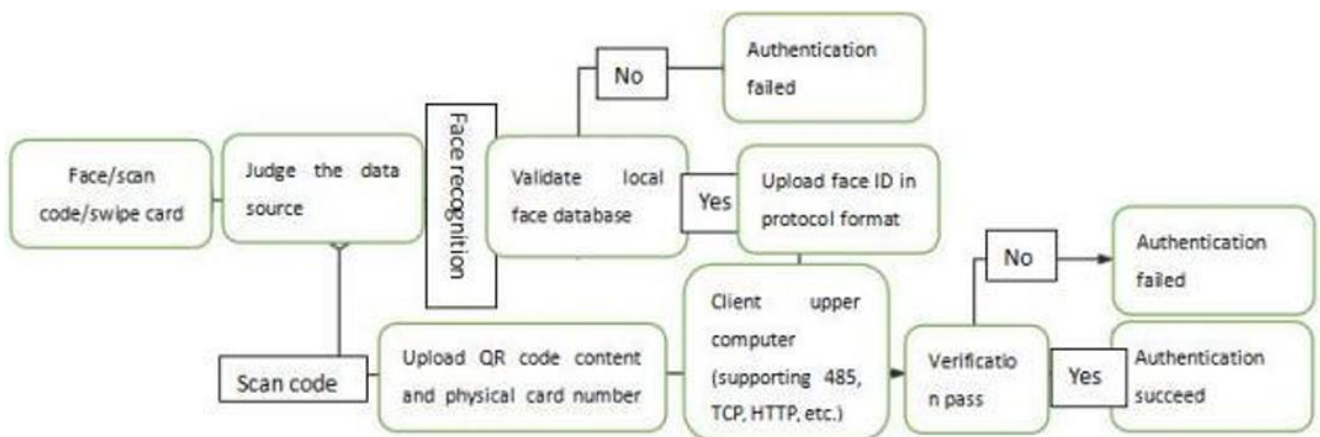
2.1 Device Working Mode

2.1.1 Transparent Transmission Mode



In transparent transmission mode, QR code scanning and RFID reading directly transmits data and there is no authentication process. Face recognition only compares with the local face database.

2.1.2 Protocol Mode

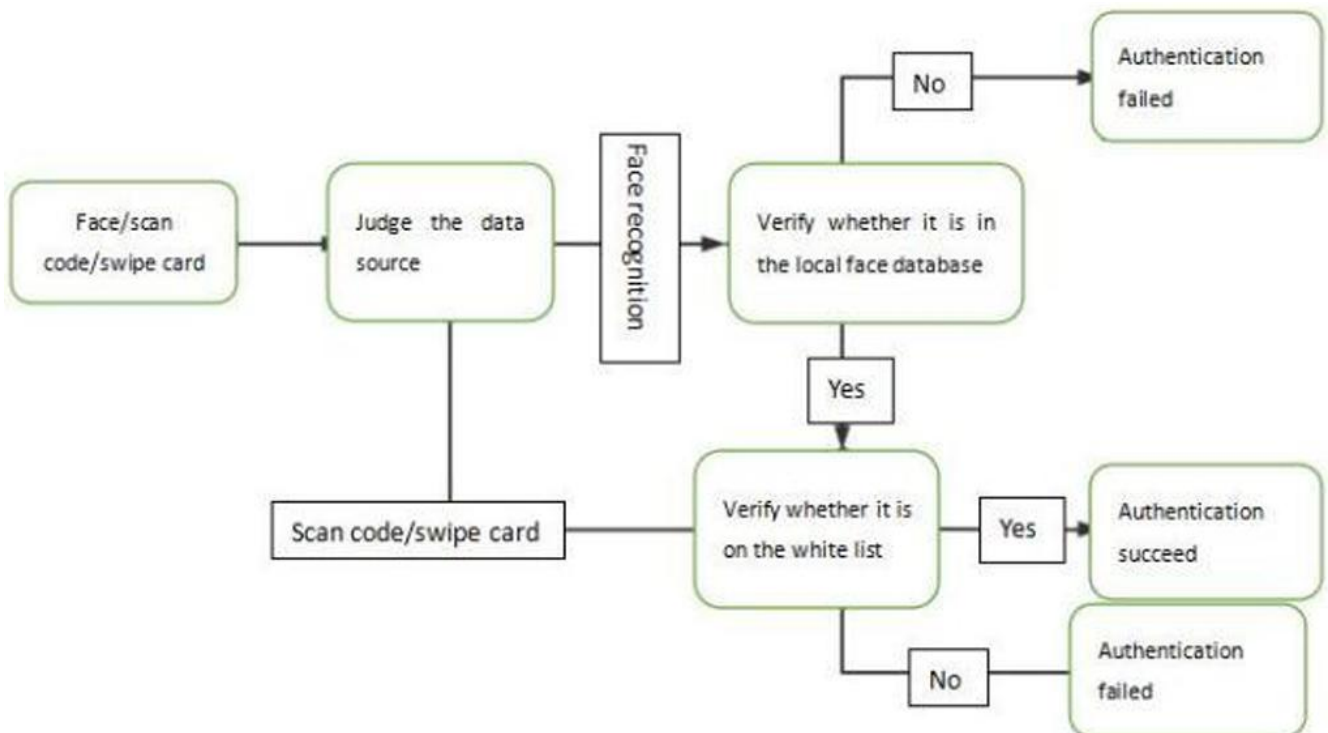


In protocol mode, the user needs to setup a server to receive data and return authentication results through RS485 or TCP and HTTP protocols.

2.1.3 Development Mode

Currently, the development mode is only used for RFID card reading and writing operations and other functions are not supported.

2.1.4 Local Whitelist Mode

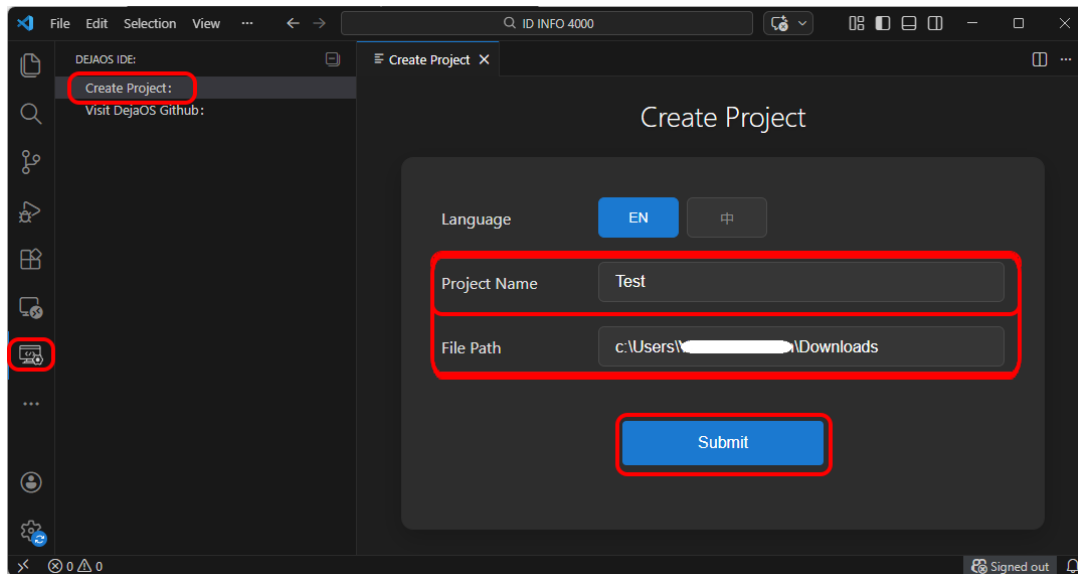


3 Prerequisites

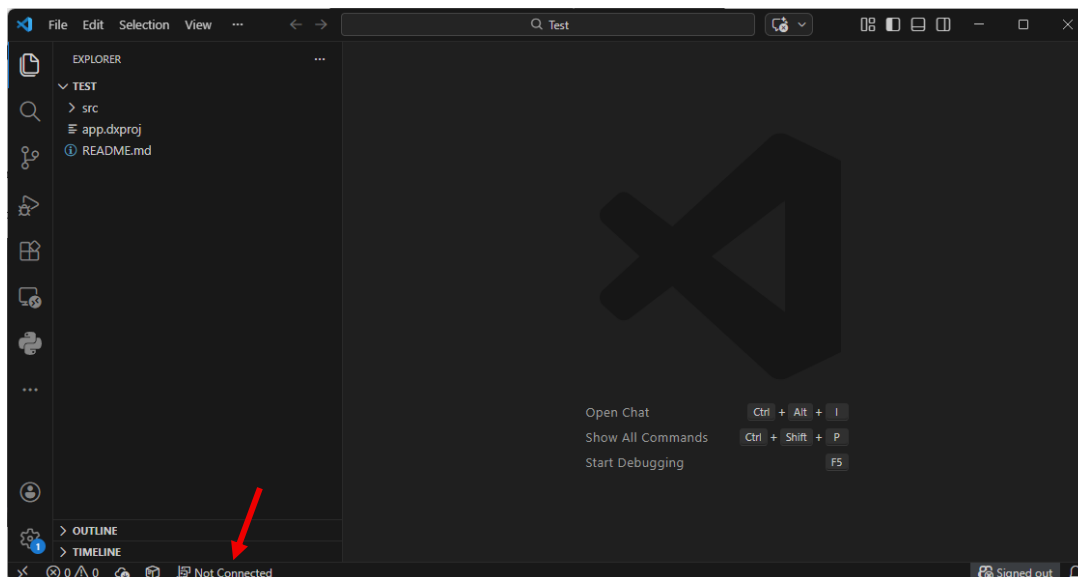
Install VSCode, NodeJS and the VSCode Extension for DejaOS.

To prepare the development device:

1. Connect the device's USB cable and plug it into the computer.
2. The device will start and enter a Welcome Screen.
3. On the left side of VSCode, click on the symbol for DejaOS and create a new project by setting a project name and specifying the path. Click submit to create the project.



4. In the newly created project, click „Not connected“. When the prompt „Connection successful“ is displayed, it means that the device and the development environment have been connected normally and you can start with the development.

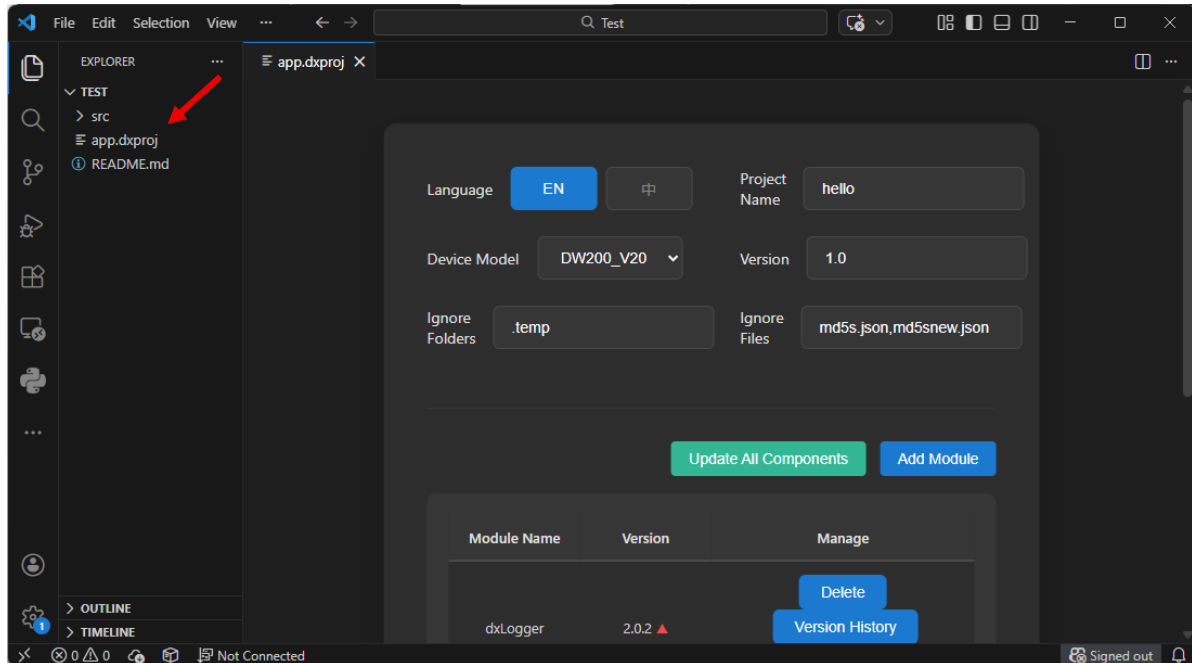


4 Simple Development Example

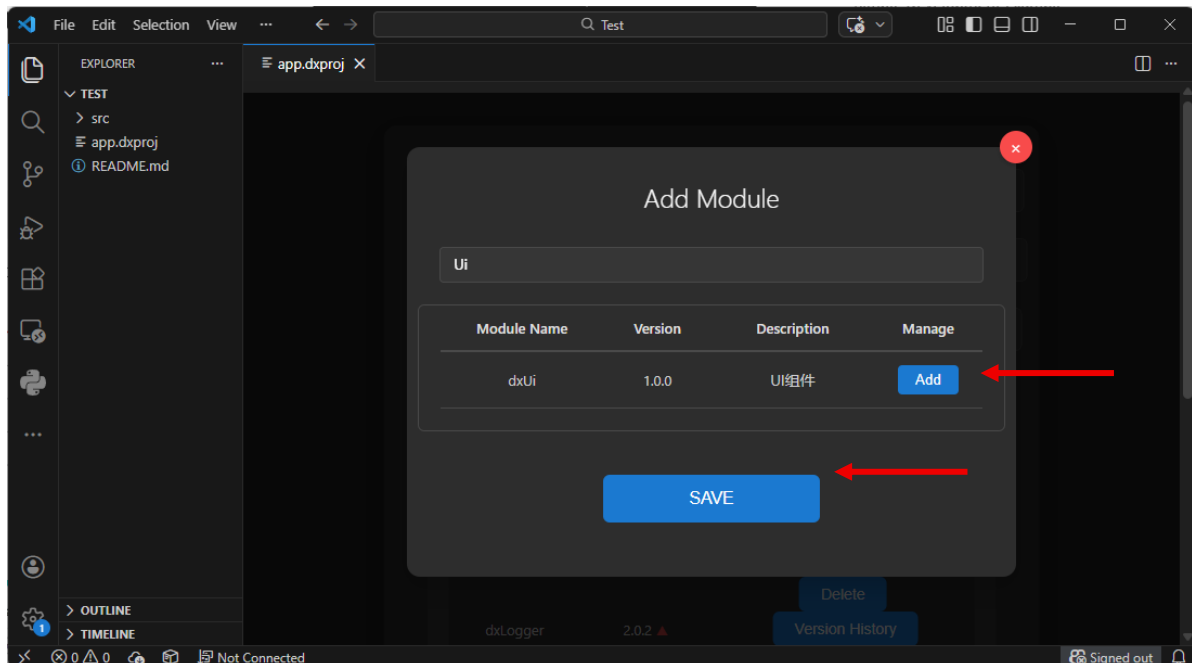
The provided example project demonstrates the ability of the device to read NFC cards.

4.1 Application Development

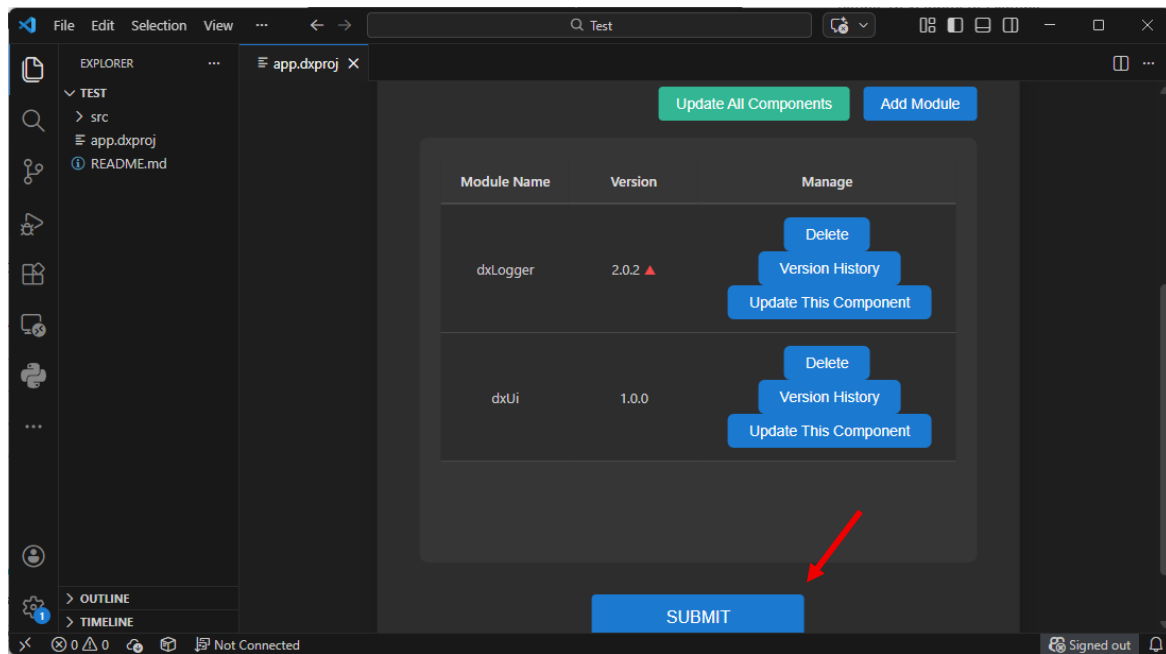
1. Create a project as shown in section 3 step 3.
2. In the newly created project, click on the app.dxpj file. The Device Model must be „VF105_V12“.



3. To add modules, click on „Add Module“ and in the example below we add the dxUi module. Afterwards click on Save



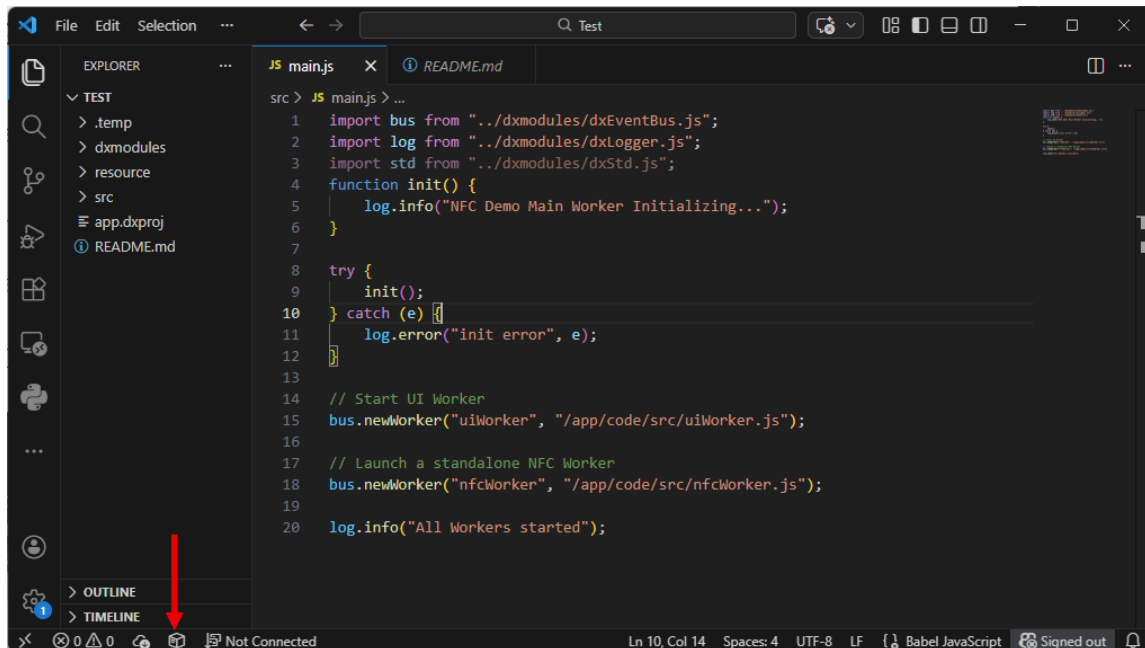
4. Click Submit and the added modules will start to download. The modules can then be found in the folder dxmodules.



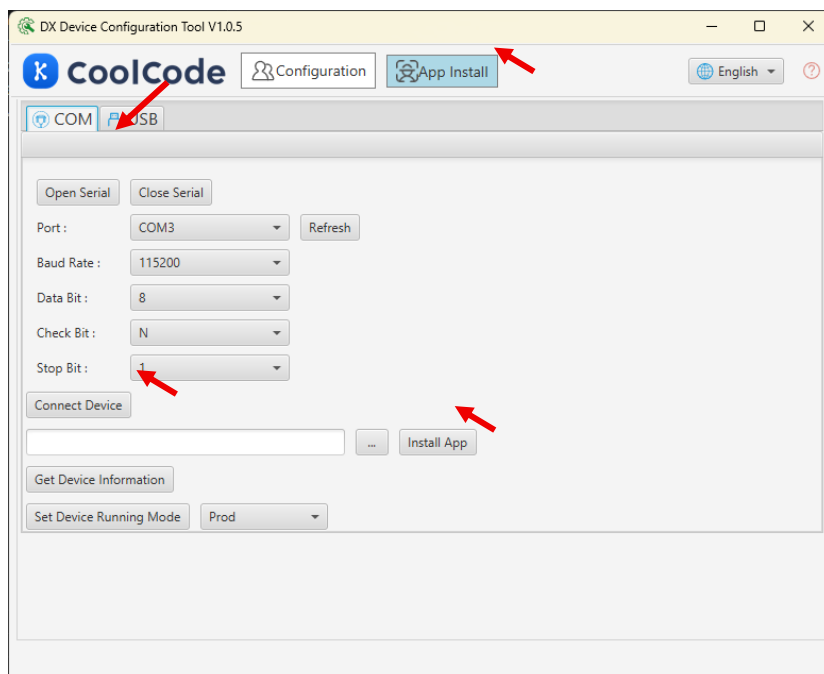
5. Next write the project code, here the code from the provided example project will be used.

4.2 Synchronize the Code to the Device

If the connection to the device does not work using VSCode, click on the bottom on “package” and the software will be packaged into a .dpk file. The file can then be found in the .temp folder (here the file name is “hello1.0.dpk”).



To upload the file to the device, execute the config_tool.exe software and go to App Install. There you can open the serial connection, connect to the device and install the app. For devices with system version 2.1.0+, please refer to the DeviceManager document for uploading and installing apps.



Once the app was successfully installed, the following window will appear:

If the device running mode is set to “Dev”, the installed app won’t automatically start. Instead change the mode to either “Test” or “Prod”. Dev and Test mode are needed to work with VSCode, Test and Prod mode are for automatically starting the installed app.

