

HUNDURE

HAMSFACE

Software Installation Guide

Version 1.5.2

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VERSION RECORD

Version	Revised Record
V1.0	First Version
V1.1	Add The Model: FaceStation 2(FS2-AWB)
V1.2	Add The Model: HunFaceEY-ZH
V1.3	Modify Function.
V1.4	Add The Model:HunFaceEY-Z2
V1.5	Add The Model:HunFaceDX-PK
V1.5.1	Add The 4.5.3 Web page Operation
V1.5.2	Add User Setting→ Batch synchronization

Chapter 1 HAMSFACE Software Overview

Face recognition system combined with Hundure HAMS access control attendance system, which can set several identification modes. In addition to being a simple access control, it mainly supports attendance applications with HAMS attendance system, which can provide several different reports.

In addition to being the single machine, the face recognition machine can also be used with the controller in the HAMS as a card reader under the controller to provide a more flexible match.

Chapter2 HAMSFACE Software Features and Functions

- Developed with Visual Studio .NET C# language, object-oriented design, providing the most flexible customization capabilities.
- Meet the special needs of customers at different levels.
- Access database provides faster and easier installation and assists customers in developing on different database platforms.
- Use XML as the main data format for multilingual switching, providing the ability to develop tools on its own.
- Provide multilingual translation tools to shorten multilingual production time.
- Flexibility provides special needs in different regions/different areas and different terminology.
- It can be used as a stand-alone or card reader.
- Combine with HAMS for all aspects of application.

Chapter 3 Operation Environment Requirement

System Requirements

- Visual Studio 2005 C#
- Windows Application

Applicable operating system

- Windows 2008 Server(included)32/64 bit above
- Windows 7 Home Premium(32bit/64bit)
- Windows 7 Professional(32bit/64bit)
- Windows 10(included) above
- Supports Traditional Chinese, English etc.

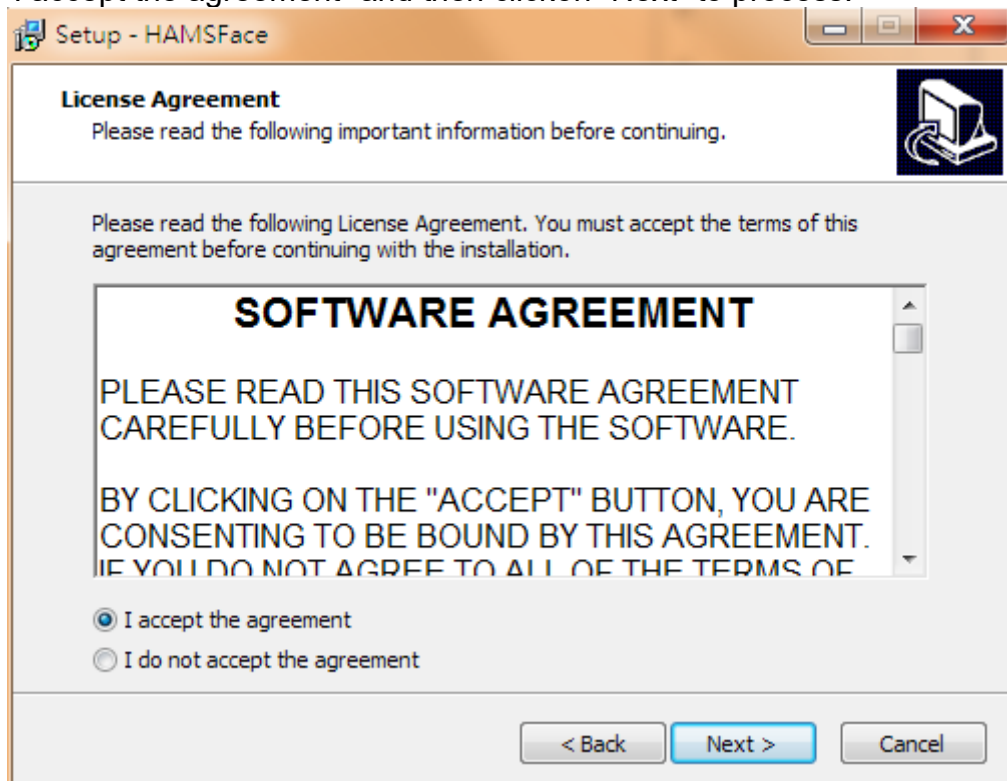
Chapter 4 Software Installation

HAMS-FACE Installation Steps: Before starting, please install HAMS software.

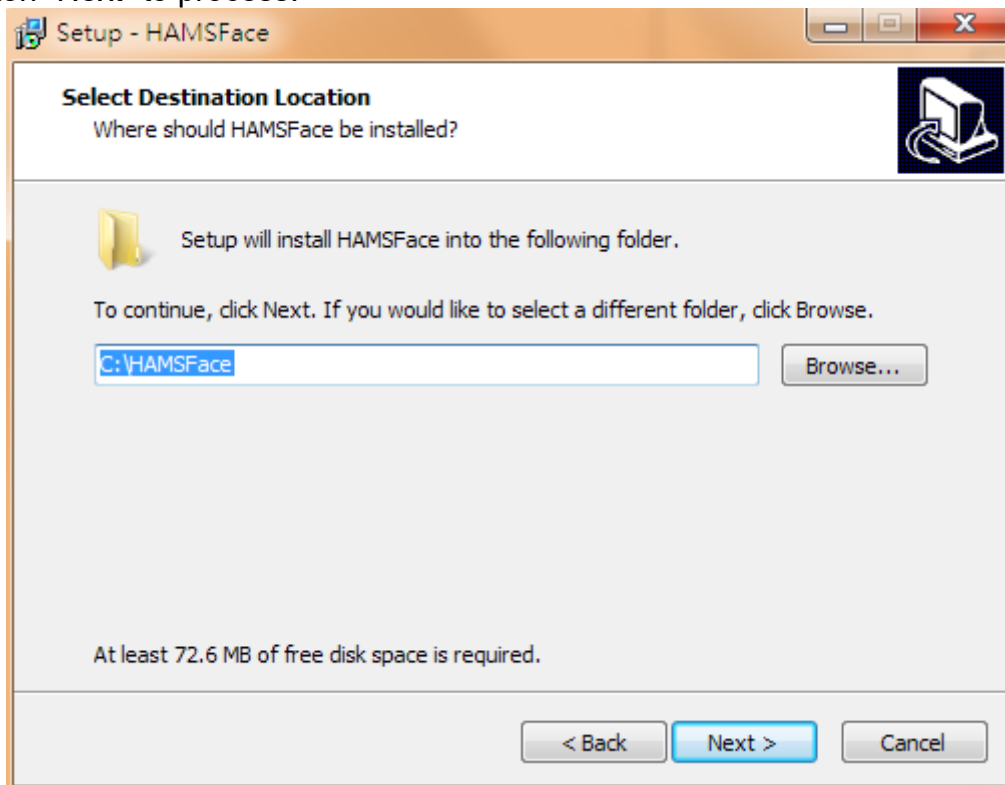
1. Please insert CD to start the installation, system will auto-detect if the .Net Framework2.0 has been installed. If not, system will install automatically.



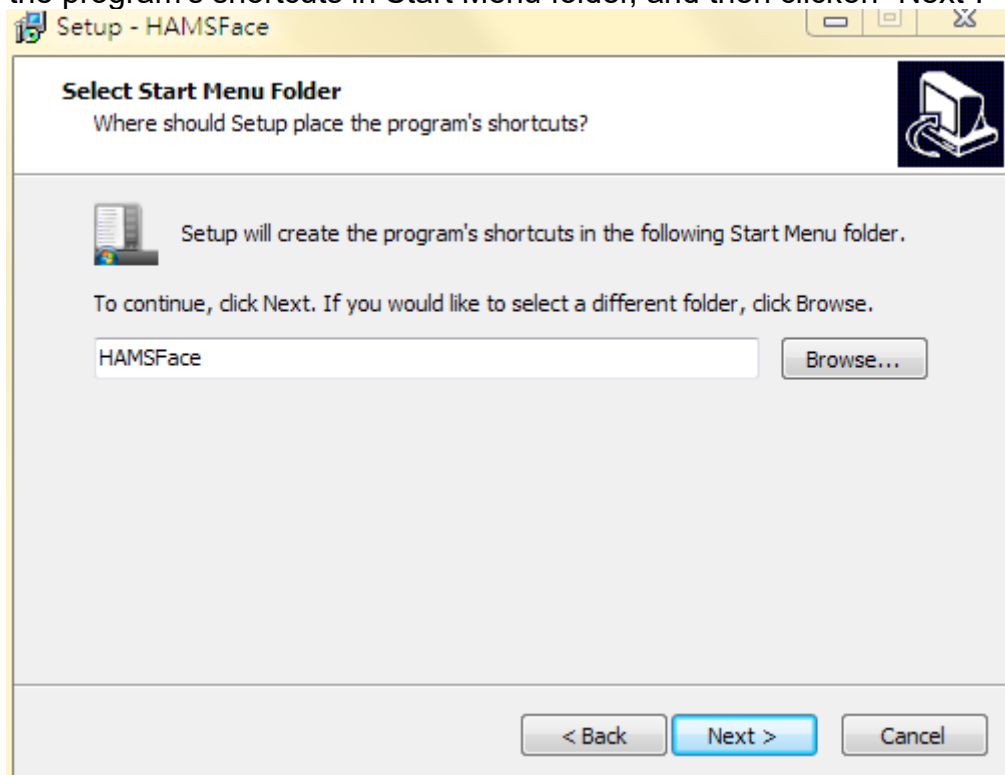
2. Select "I accept the agreement" and then clickon "Next" to process.



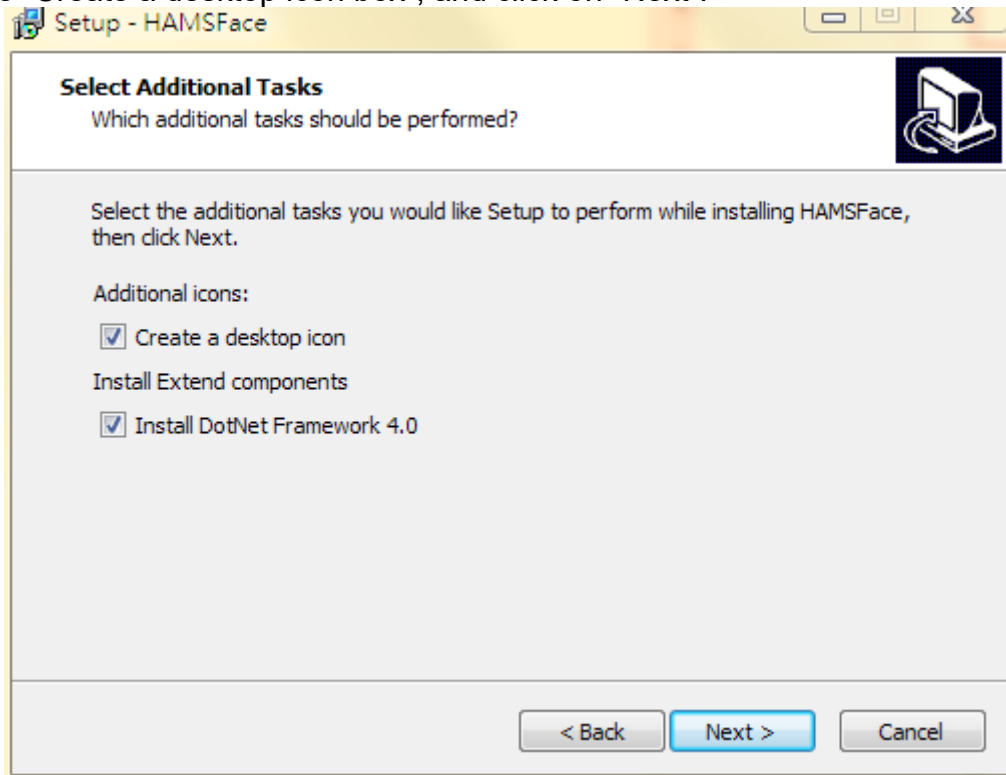
3. Please click on “Next” to continue, or clickon “Browser” to select the different folder, and then clickon “Next” to process.



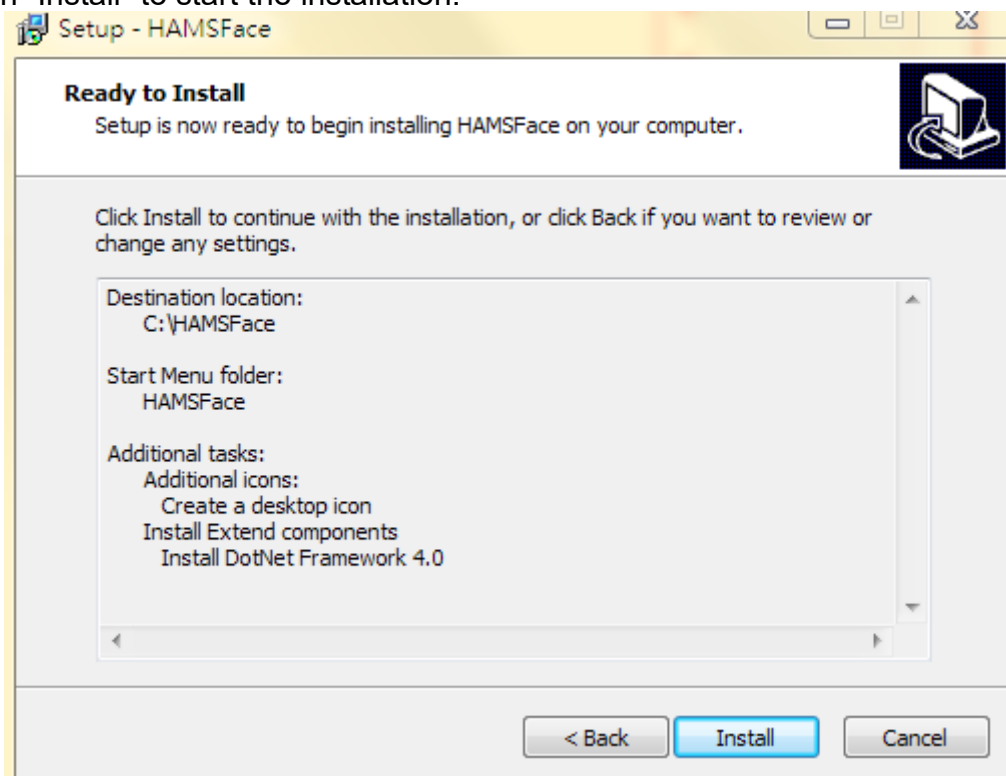
4. Create the program’s shortcuts in Start Menu folder, and then clickon “Next”.

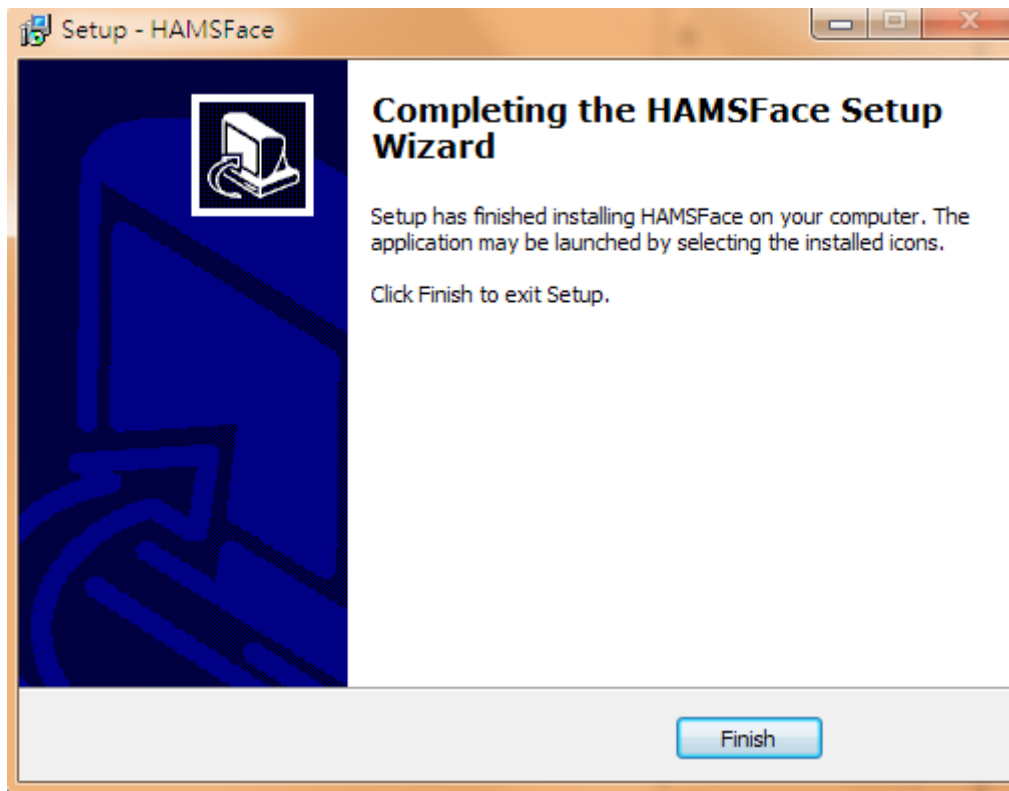


5. Tick the “Create a desktop icon box”, and click on “Next”.



6. Click on “Install” to start the installation.





7. HAMS-FACE Setup is complete. Clickon “Finish” to exit Setup.

Chapter 5 Start to use

1. System Login

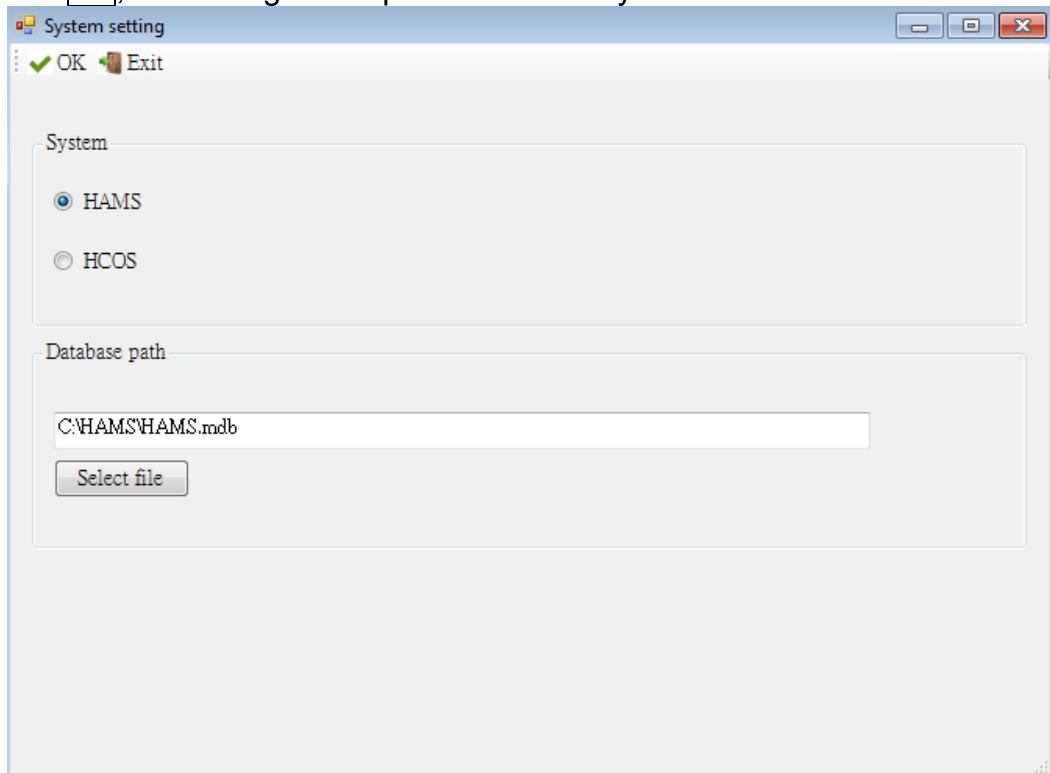


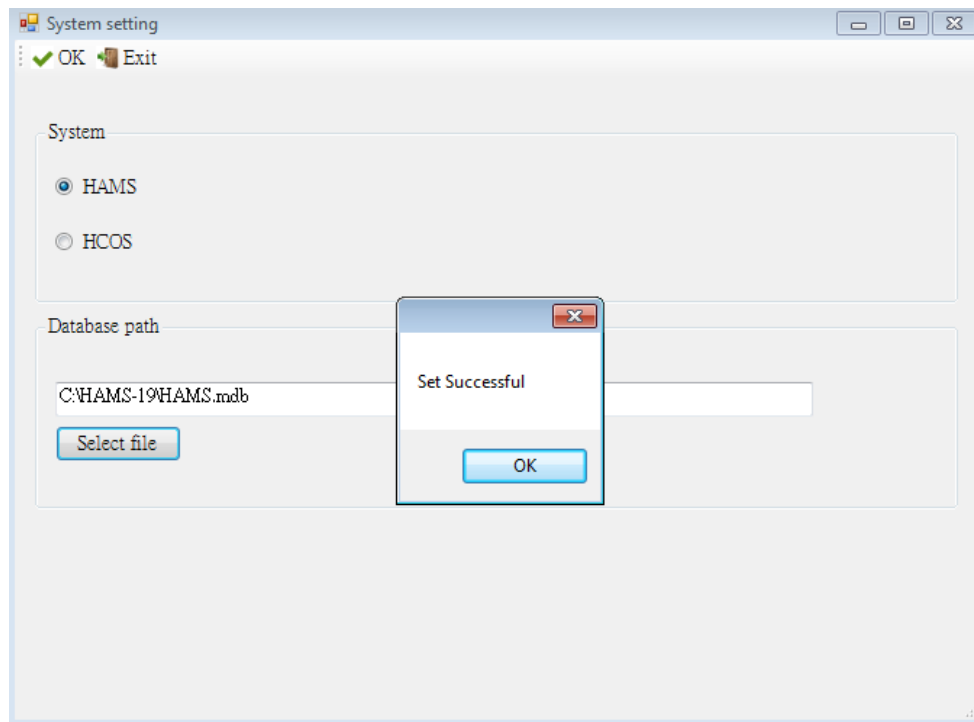
Method 1: Click on “HAMSFace” icon to start the program.

Method 2: Go to Start Menu→ All programs→HAMSFACE→HAMSFACE to enter the system.

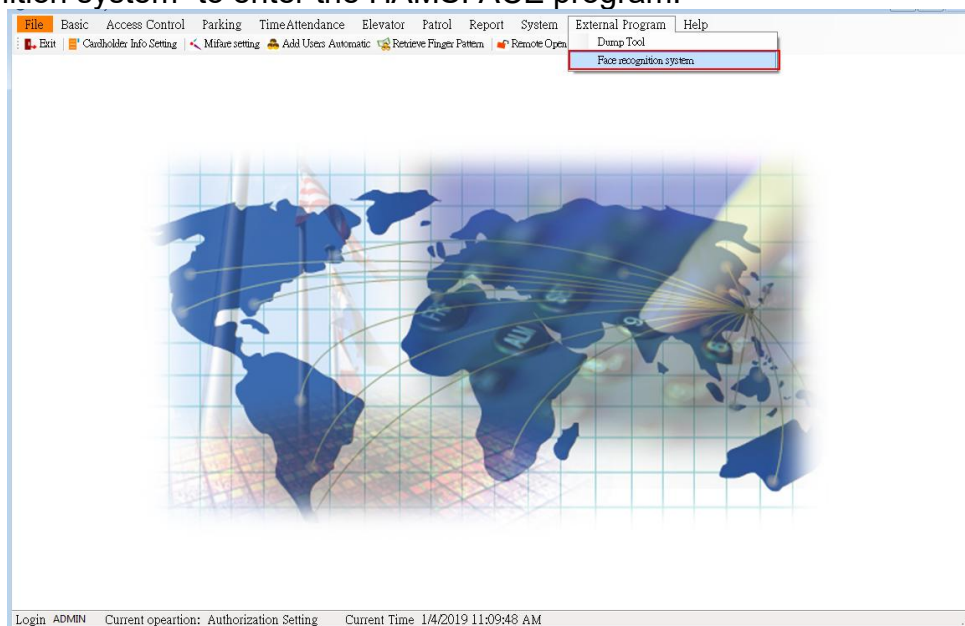
Operation steps:

1. After executing the program, the System settings screen will pop up. Please select the database (HAMS/HCOS).
2. If selecting HAMS system, please click on “Select file” to setup HAMS Database path.
3. Clickon **OK**, the setting is complete successfully.

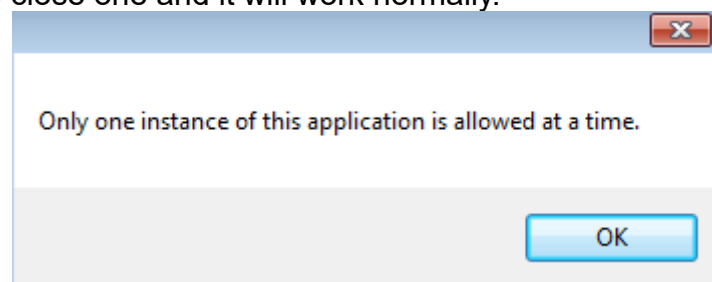




4. In HAMS software, an “External Program” will be generated. The user clicks on “Face recognition system” to enter the HAMSFACE program.

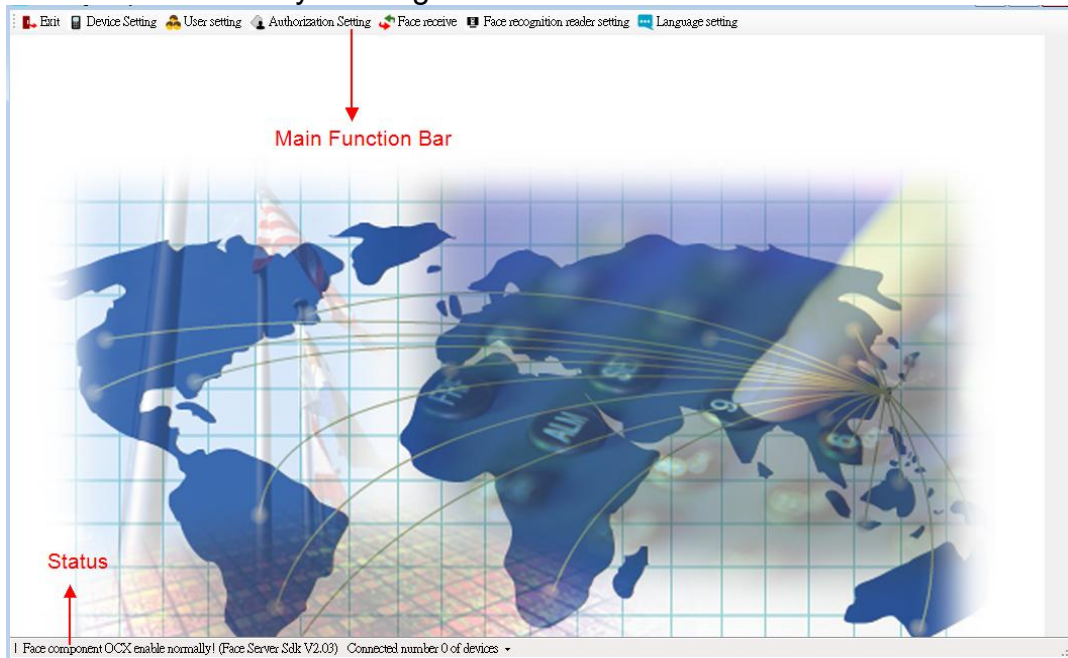


When you open two HAMSFACE programs at the same time, the following screen will appear. Please close one and it will work normally.



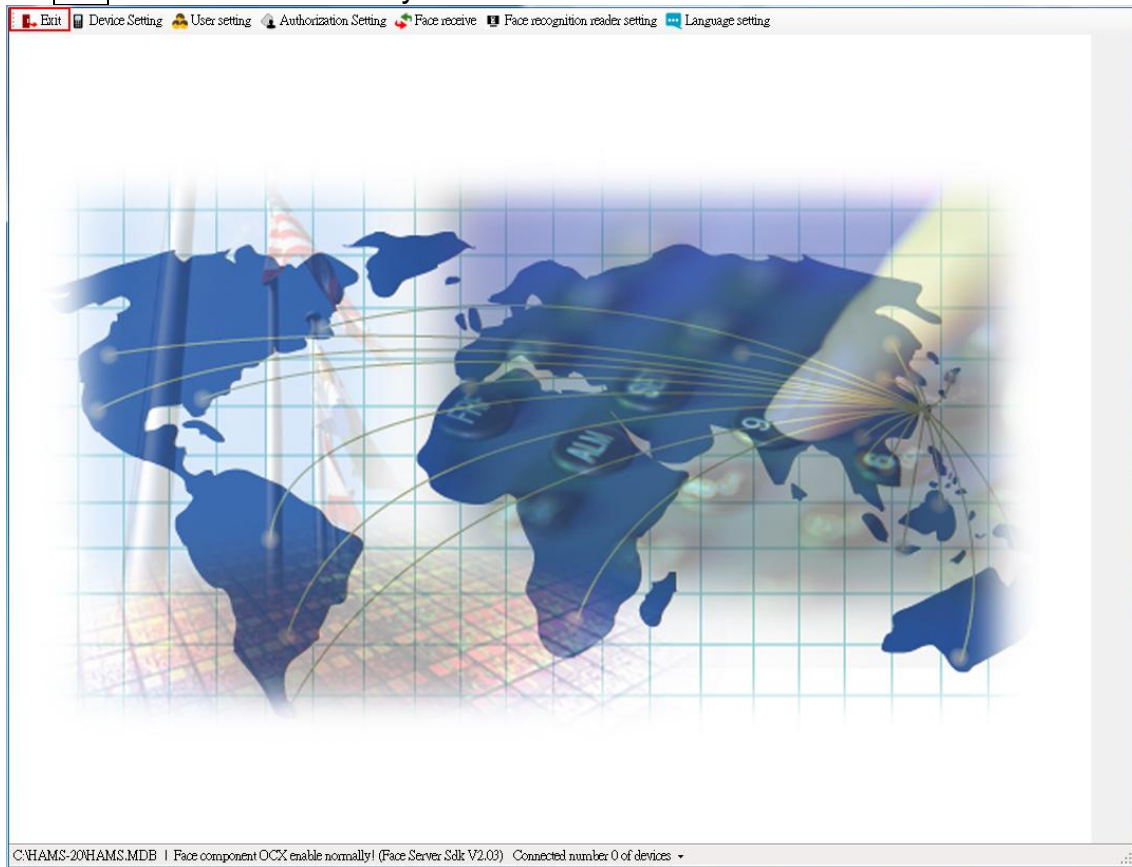
2. User Interface Description

The user interface includes Main Function Bar and Status Bar. When using the functions from the main function bar, the selected function will be marked with color, so that it is clear which function currently is being used.



3. Exit

Click on **Exit** to exit HAMSFace system.



4. Face device type

Please choose the facial devices.

HTA-HFCM, HunFaceEY-ZH, FaceStation 2, HunFaceEY-Z2 can only operate one type at a time, and cannot be used together.



4.1 FaceStation 2 (FS2-AWB)

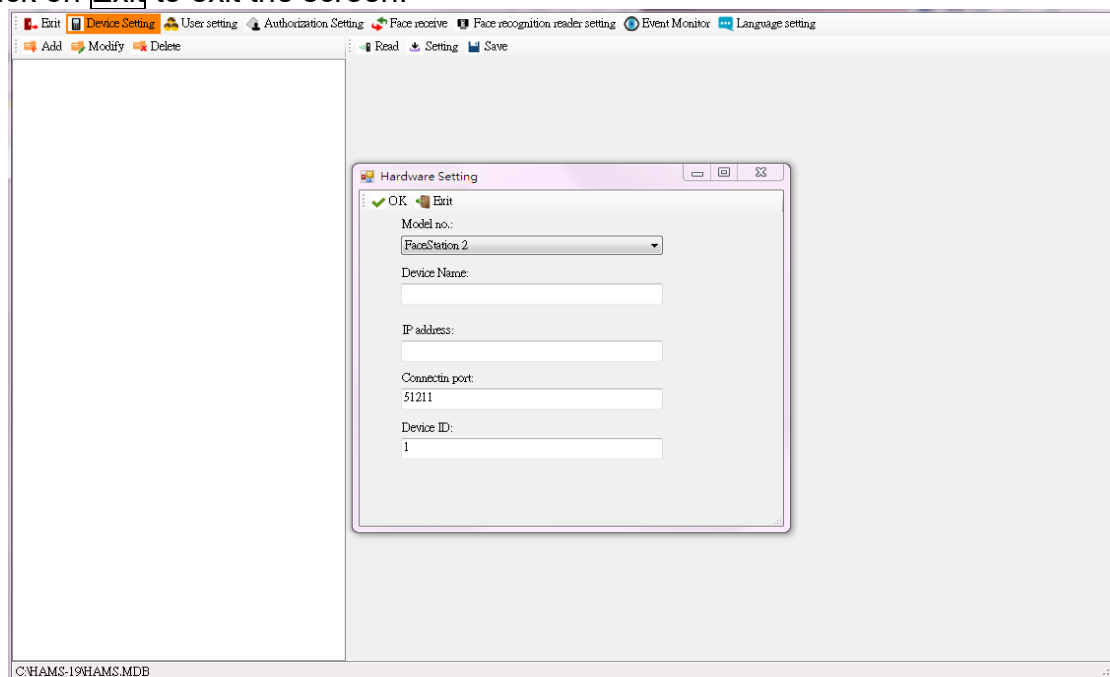
4.1.1 Device Setting

You can add, modify, and delete device settings.

Add a new device: Add the parameters and data of the device.

Operation steps:

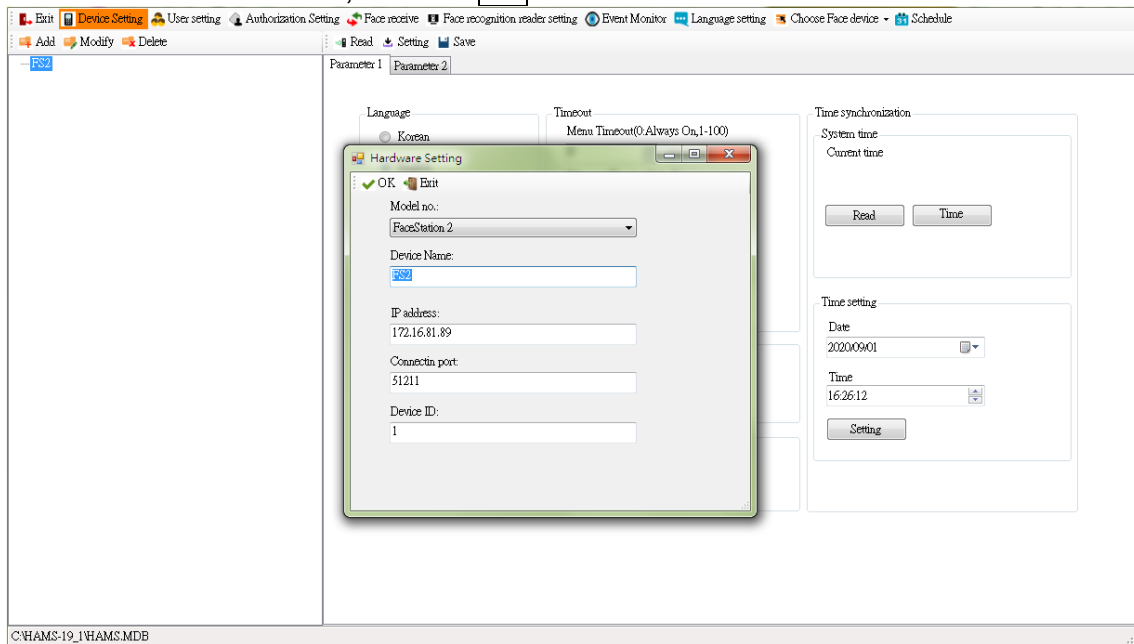
1. Click on **Add**, Hardware Setting screen appears. The current fields are as follows:
 - Model no: Select the device model no.
 - Device Name: Input device name (custom).
 - IP address: Device IP.
 - Connection port: Default is 51211.
 - Device ID: Hardware ID.
2. Click on **OK** to complete the device setting.
3. Click on **Exit** to exit the screen.



Modify the device: modify the parameters and data of the device.

Operation steps:

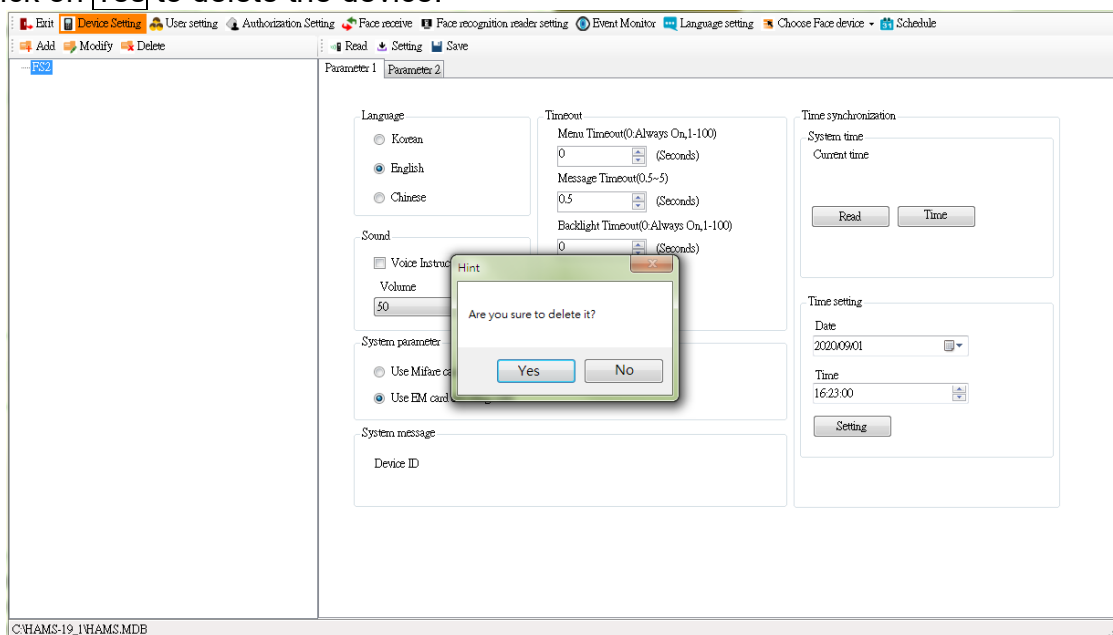
1. Click on **Modify** to pop up Hardware Setting screen.
2. After modification is down, click on **OK** to save the data.



Delete the device: delete the parameters and data of the device.

Operation steps:

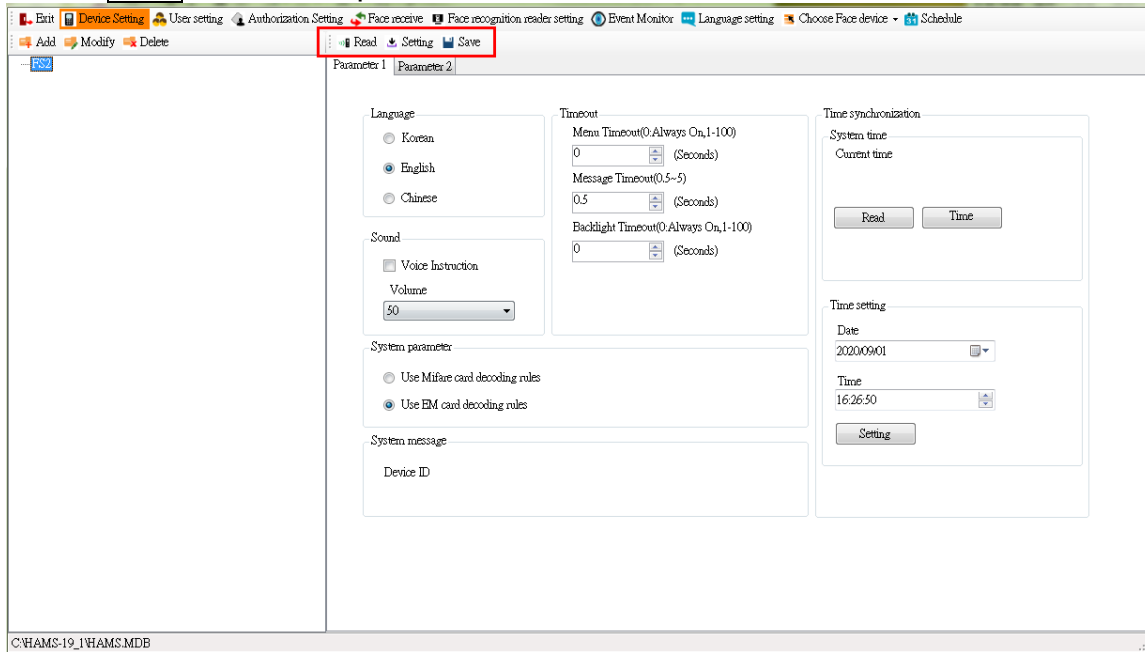
1. Select the device, and click on **Delete**. Before deleting, a hint screen will appear to ask if you are sure to delete the device.
2. Click on **Yes** to delete the device.



Currtion: After the device is deleted, query history will not be recorded on the device.

The parameter setting of device :

1. Click on **Read** to read back the settings of Parameter 1 and Parameter 2.
2. Click on **Setting**, and before the parameters take effect, parameter 1 and parameter 2 settings must be down.
3. Click on **Save** to save the parameter modifications.



4.1.1.1Parameter 1

Hardware parameters set.

Operation steps:

1. Select the device to modify.
2. Click on **Read** to read back the current settings.
3. Modify parameter settings. The parameters that can be modified are as follows:
 - 【Language】 : Set the language of the device display. Korean 、 English and Chinese traditional are provided.
 - 【Sound】 : Enable , notice of sound , the volume is adjusted.
 - 【System parameter】 : It's possible to choose decryption rules of MiFare card or EM card.

Notice :

1. In order to avoid the error of decryption, please don't mix it because it's different between EM card and MiFare card for decryption rule.
2. When you don't know the card number, please use it as unauthorized card to tap the card by devices. After, you can be back to "Event monitor to receive the information of card to know the card number. Because the card information of devices will only send employee number when the card is authorization.

【Wiegand Setting】 : Enable 34 Bit decode. This function is supported in **Parameter** of **【Face recognition reader setting】**

Notice : The default setting will be Wiegand 26 when the facial device become as a reader. But if facial device is as a standalone device, the default setting will be Wiegand 34 (as well as it doesn't support Wiegand 26.)

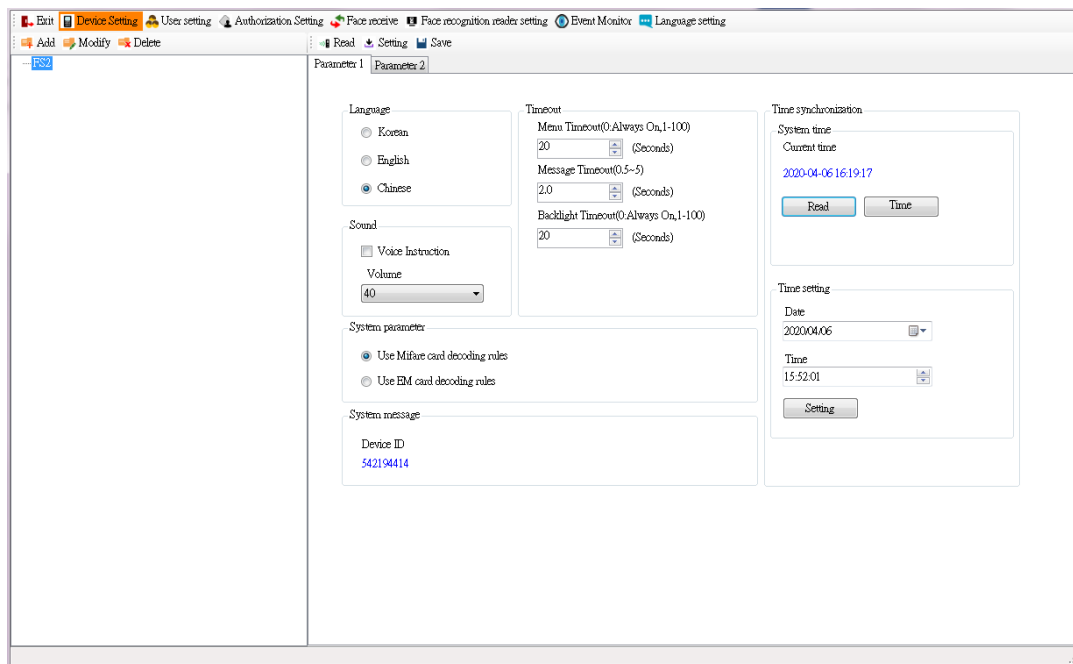
【System message】 : Display the number of devices.

【Time out】

- Menu overdue(0 : always on , or 1-100 sec. on)
- Message overdue(0.5~5) : Message displays time.
- Background overdue(0 : always on , or 1-100 sec. on)

【Time synchronization】 : Perform time synchronization or read time action for the device.

- System time: Click on **Read**, to receive current time of device. Click on **Time** to set the system time.
- Time setting: Select date and time to set time. Click on **Setting** to set time of the device.



Click on **Setting** to modify the settings of the device.

4.1.1.2Parameter 2

Operation steps:

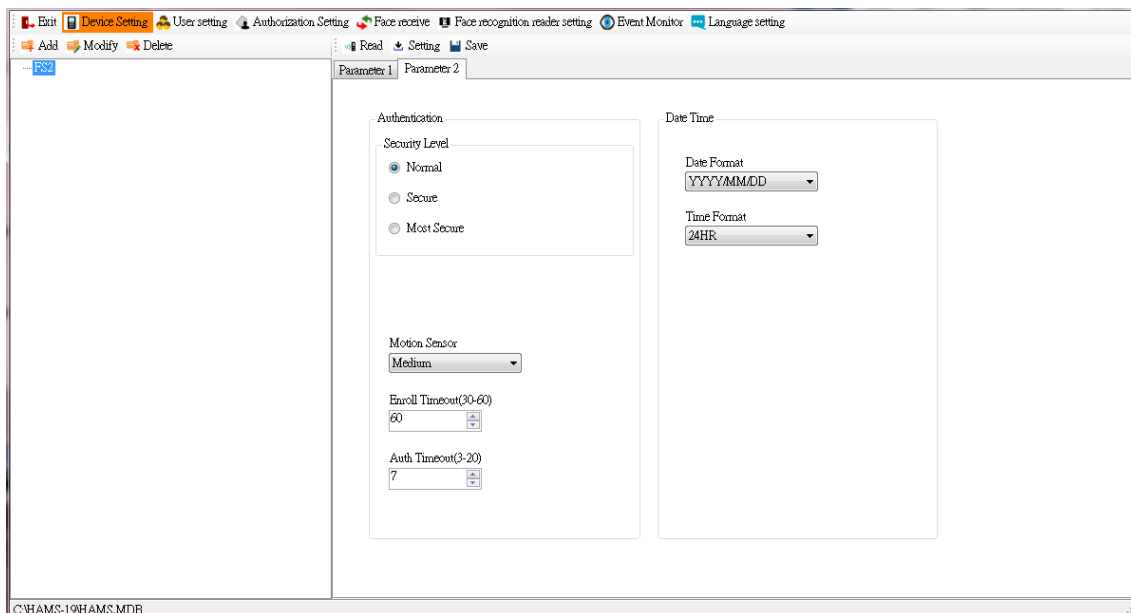
1. Select the device to modify.
2. Click on **Read** to read back the current settings.
3. Modify parameter settings. The parameters that can be modified are as follows:

【Authentication】

- Security Level : Accuracy will be more higher when match the feature poing, if it set level high. It's possible to set up Normal / Safe / Most safe. Motion Sensor : It's the option to set up Off 、 Low 、 Mediurn 、 Hight.
- Enroll Timeout(30-60) : Time of registration.
- Auth Timeout(3-20) : Time of verification.

【Date Time】 :

- Date Format : Y:Year , M:Month , D:Day
 - YYYY/MM/DD
 - MM/DD/YYYY
 - DD/MM/YYYY
- Time Format :
 - AM/PM : AM/PM
 - 24HR : 24 hours



4. Click on **Setting** to modify the settings on the device.

4.1.2 User Setting

The HAMSFACE program is not built-in any basic user data, so the table is blank. Please add the user information to the HAMS program.

The screenshot shows the 'User setting' window of the HAMS program. The window has a menu bar with options: Exit, Device Setting, User setting (highlighted), Authorization Setting, Face receive, Face recognition reader setting, Event Monitor, Language setting, and Choose Face device. Below the menu bar is a 'Query criteria:' section with a search icon and a search box. The main area is divided into two panes. The left pane contains a table with the following columns: Name, Employee ID, Face features, and Face recognition number. The table is currently empty. The right pane is titled 'Face feature setting' and contains several configuration options: 'Face recognition number(0-65535)' with a text input field, 'Message setting' with a text input field, 'Select card number' with a dropdown menu, and 'Card Swipe Modes' with four radio buttons: 'By Device' (selected), 'Face', 'Face or card picture', and 'Face and card'. There is also an unchecked checkbox for 'Administrator'. At the bottom of the window, the file path 'D:\HAMS-19\HAMS.MDB' is displayed.

If the HAMS program has basic user information, it will be displayed directly in the table.

The screenshot shows the 'User setting' window of the HAMS program with a table populated with user data. The table has the following columns: Name, Employee ID, Face features, and Face recognition number. The data is as follows:

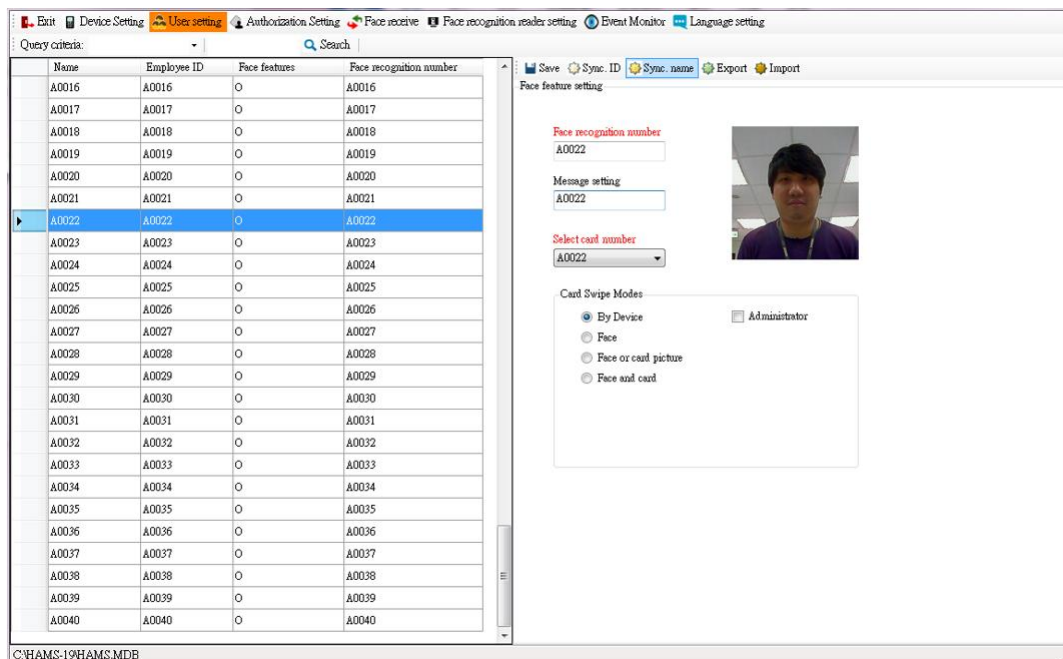
Name	Employee ID	Face features	Face recognition number
DAV1	0000000001		
DAV2	0000000002		
DAV3	0000000003		
DAV4	0000000004		
DAV5	0000000005		
DAV6	0000000006		
DAV7	0000000007		
DAV8	0000000008		
DAV9	0000000009		
DAV10	0000000010		
DAV11	0000000011		
DAV12	0000000012		
DAV13	0000000013		
DAV14	0000000014		
DAV15	0000000015		
AMY16	0000000016		
AMY17	0000000017		
AMY18	0000000018		
AMY19	0000000019		
AMY20	0000000020		
AMY21	0000000021		
AMY22	0000000022		

The right pane is titled 'Face feature setting' and contains the same configuration options as the first screenshot. The 'Message setting' field now contains the value 'DAV1'. The 'Select card number' dropdown menu now shows '0000000001'. The 'Card Swipe Modes' section remains the same. At the bottom of the window, the file path 'D:\HAMS-19\HAMS.MDB' is displayed.

Operation steps:

1. Please add the user information to the HAMS program.
2. First, the face data is stored the device, you need to use the "Face Receive", its face features are received back to the system. (Please refer to the chapter "Face Receive Settings")
3. Select the user.
4. Select the user 's face recognition number and related parameters.
 - Face recognition number, if the number is over 9999999999, it is invalid.
Notice: The first number cannot be 0. (For instance, it is invalid for 0000000001, it is valid for 1000000001 as well.
 - Message setting: The message will display after the user pass the face recognition by the device.
 - Select card number: Display user card number.
Notice :
 1. In case, the user doesn't have card, and it will not display the car number and it cannot update the uthorization, so user should have a card.
 2. It's necessary to choose card number again in HAMSFace user's setting when you need to add or delete card again from HAMS system user's setting.
 - Card Swipe Mode: Provide 4 modes for the recognition settings.
 - By Device.The default setting is face or card+face.
 - Face.
 - Face or card picture.
 - Face and card.
 - Enable administrator and the face will be administrator.

Caution: Not all models of devices provide above modes, depending on actual model.
5. If click on Sync. ID, the system will automatically update Employee ID in Face recognition number field.
6. If click on Sync. name, the system will automatically update Employee name in Message setting field.



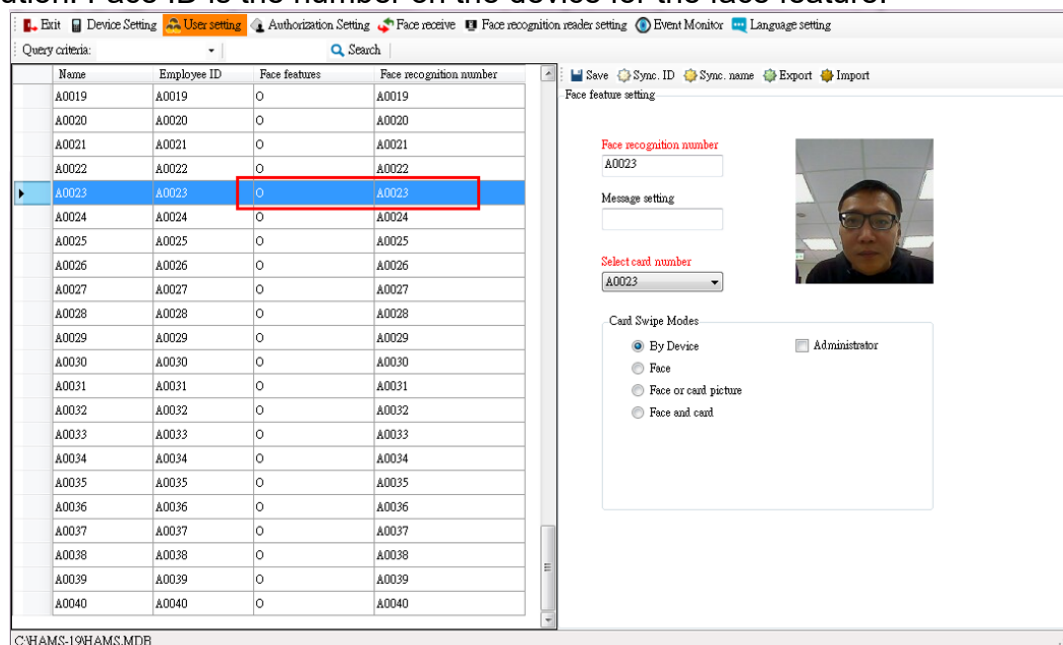
7. **Export** : It will save as TXT file when export the face data.

Export data includes EmpNo (Employee ID), CardNo (Card ID), FaceID (Face recognition number).

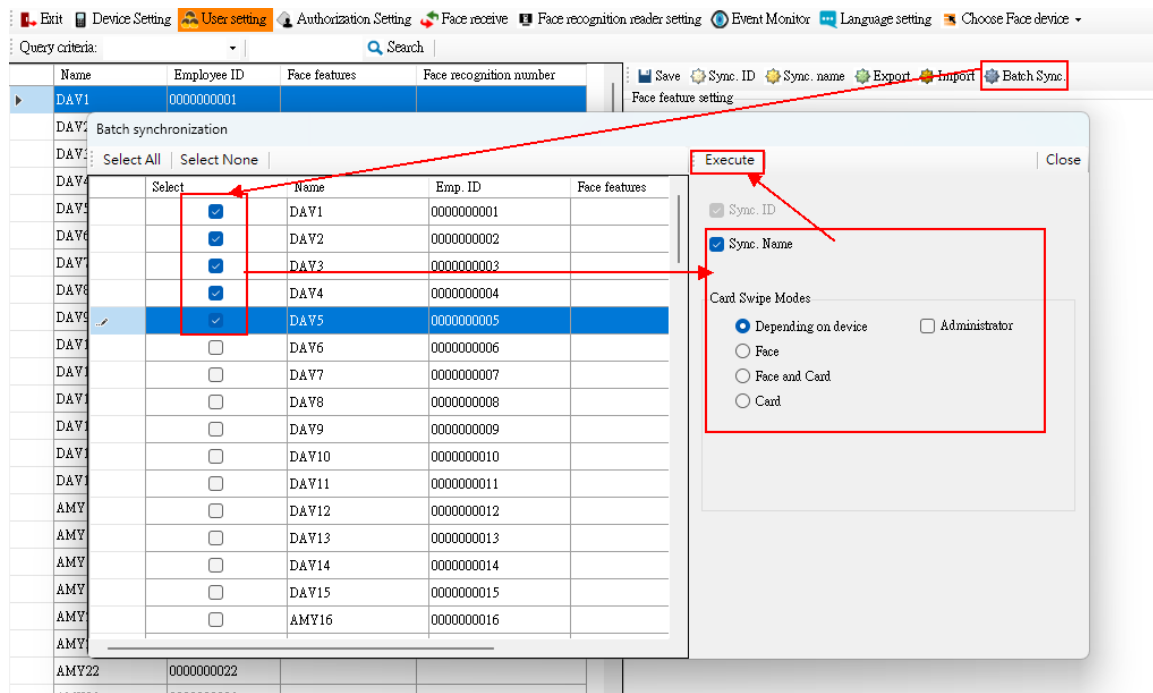
8. **Import** : Select the TXT file to import the face features data.(It is not user basic information.)

Import data includes EmpNo (Employee ID), CardNo (Card ID), FaceID (Face recognition number).

Caution: Face ID is the number on the device for the face feature.



9. For **Batch Sync.**, you can select people, set synchronized names and verification modes in batches, and click to execute synchronization to complete.



4.2 HunFaceEY-ZH

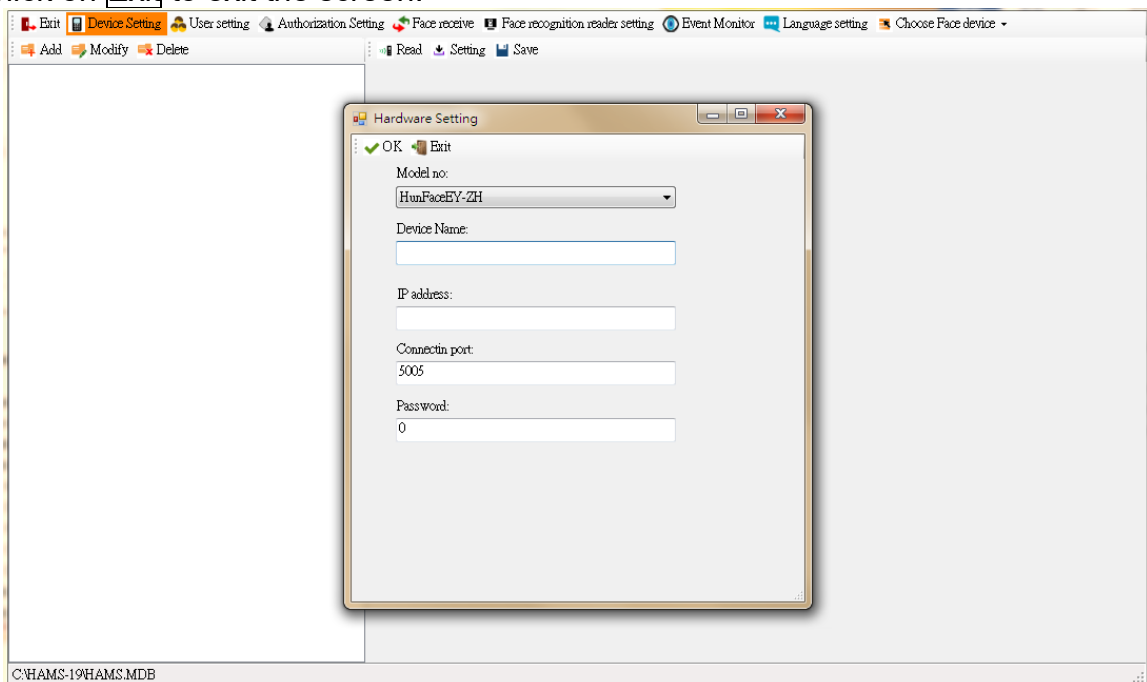
4.2.1 Device Setting

You can add, modify, and delete the device settings.

Add a new device: Add the parameters and data of the device.

Operation steps:

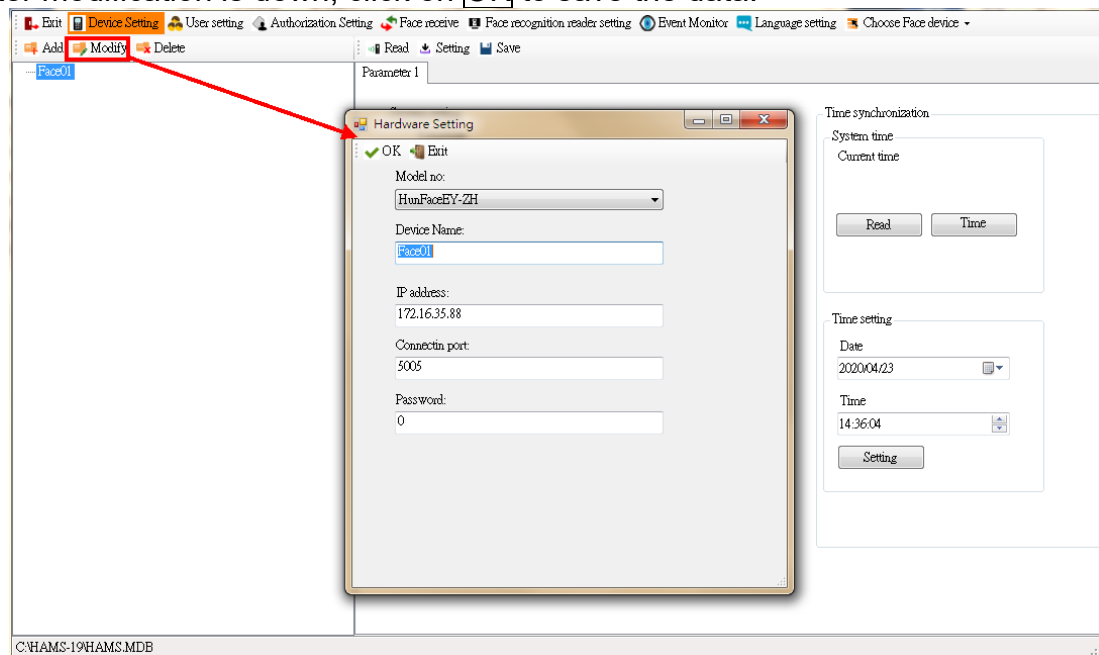
1. Click on **Add**, Hardware Setting screen appears. The current fields are as follows:
 - Model no: Select the device model no.
 - Device Name: Input device name (custom).
 - IP address: Device IP.
 - Connection port: Default is 5005.
 - Password: The software will verify the hardware device when the communication is built.
2. Click on **OK** to complete the device setting.
3. Click on **Exit** to exit the screen.



Modify the device: modify the parameters and data of the device.

Operation steps:

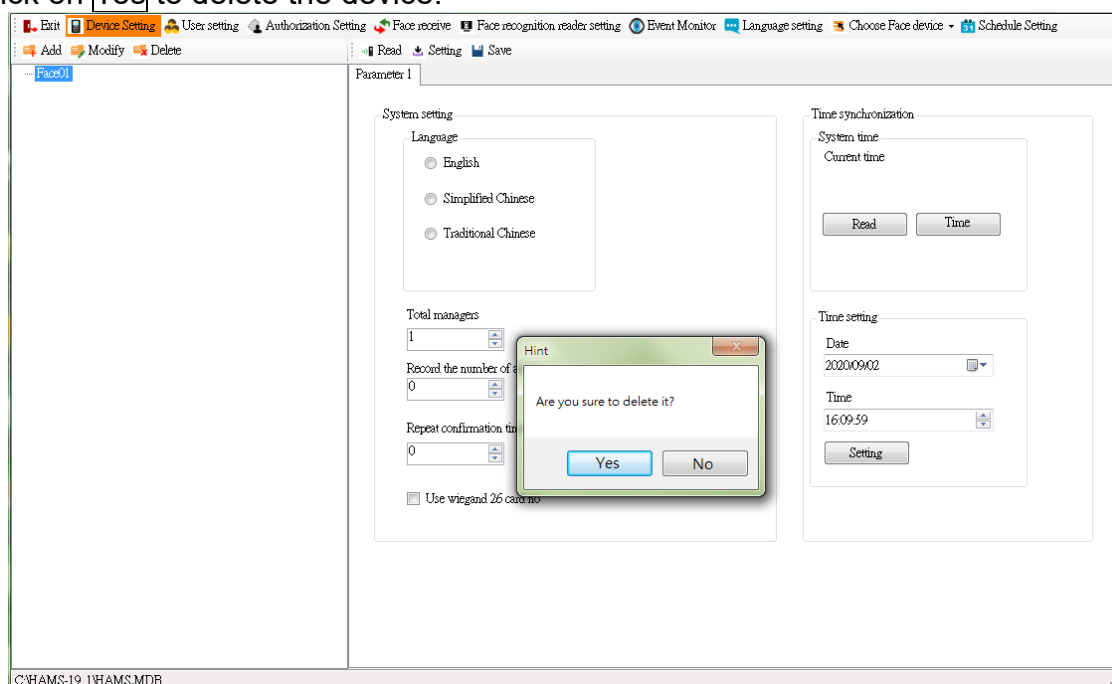
1. Click on **Modify** to pop up Hardware Setting screen.
2. After modification is down, click on **OK** to save the data.



Delete the device: delete the parameters and data of the device.

Operation steps:

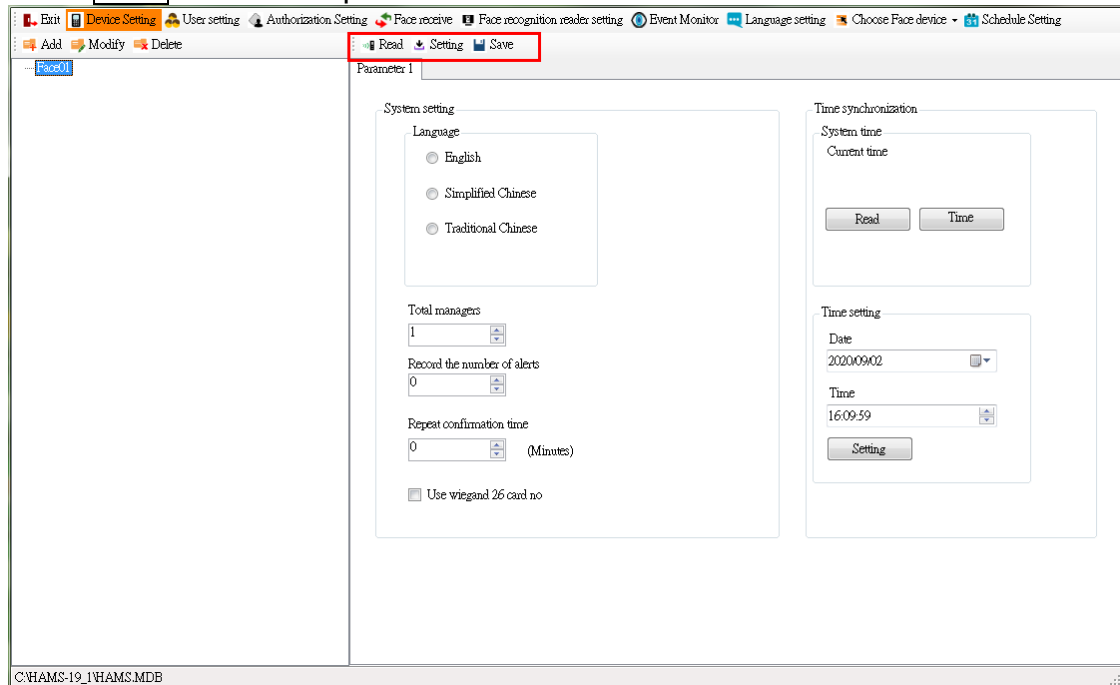
1. Select the device, and click on **Delete**. Before deleting, a hint screen will appear to ask if you are sure to delete the device.
2. Click on **Yes** to delete the device.



Curtion: After the device is deleted, query history will not record the device.

The parameter setting of device :

1. Click on **Read** to read back the settings of Parameter 1.
2. Click on **Setting**, and before the parameters take effect, parameter 1 settings must be down.
3. Click on **Save** to save the parameter modifications.



4.2.1.1 Parameter 1

Hardware parameters set.

Operation steps:

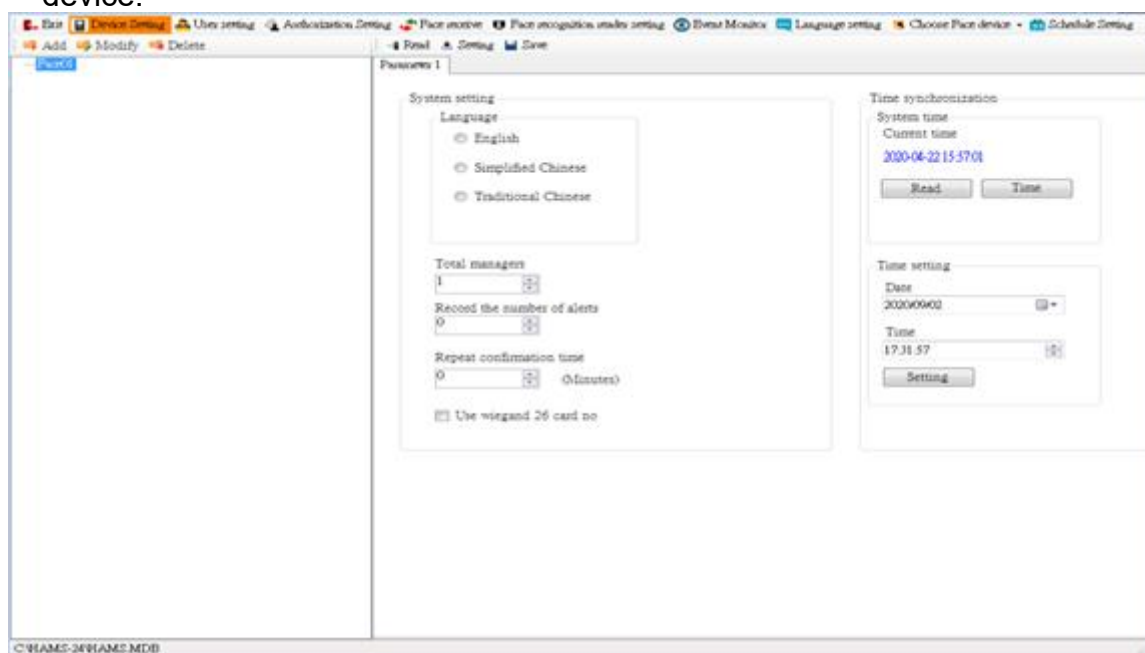
1. Select the device to modify.
2. Click on **Read** to read back the current settings.
3. Modify parameter settings. The parameters that can be modified are as follows:

【System setting】

- Language : Set the language of the device display. English 、 Simplified Chinese and Chinese traditional are provided.
- Total managers : It is able to set up administrator and maximum is 10 people.
- Record the number of alerts : It supports alarm notification when the record reaches the maximum memory.
- Repeat confirmation time : During the period, device will only keep the first record of authorized user.
- Use Wiegand 26 card no. : Enable Wiegand 26. (Default setting is Wiegand 34.)

【Time synchronization】 Perform time synchronization or read time action for the device.

- System time: Click on **Read**, to receive current time of device. Click on **Time** to set the system time.
- Time setting: Select date and time to set time. Click on **Setting** to set time of the device.



4. Click on **Setting** to modify the settings of the device.

4.2.2 User Setting

The HAMSFACE program is not built-in any basic user data, so the table is blank. Please add the user information to the HAMS program.

The screenshot shows the 'User setting' window of the HAMS program. The window has a menu bar with options: Exit, Device Setting, User setting (highlighted), Authorization Setting, Face receive, Face recognition reader setting, Event Monitor, Language setting, and Choose Face device. Below the menu bar is a 'Query criteria' section with a search bar. The main area contains a table with four columns: Name, Employee ID, Face features, and Face recognition number. The table is currently empty. To the right of the table is a 'Face feature setting' panel with the following options: 'Face recognition number' (text input), 'Message setting' (text input), 'Select card number' (dropdown menu), and 'Card Swipe Modes' (radio buttons for 'By Device' (selected), 'Face or Fingerprint', 'Face or Fingerprint or Card', and 'Verify by card swipe', plus a checkbox for 'Administrator'). At the bottom of the window, the file path 'D:\HAMS-19\HAMS.MDR' is displayed.

If the HAMS program has basic user information, it will be displayed directly in the table.

The screenshot shows the 'User setting' window of the HAMS program with the table populated with user data. The table has four columns: Name, Employee ID, Face features, and Face recognition number. The data is as follows:

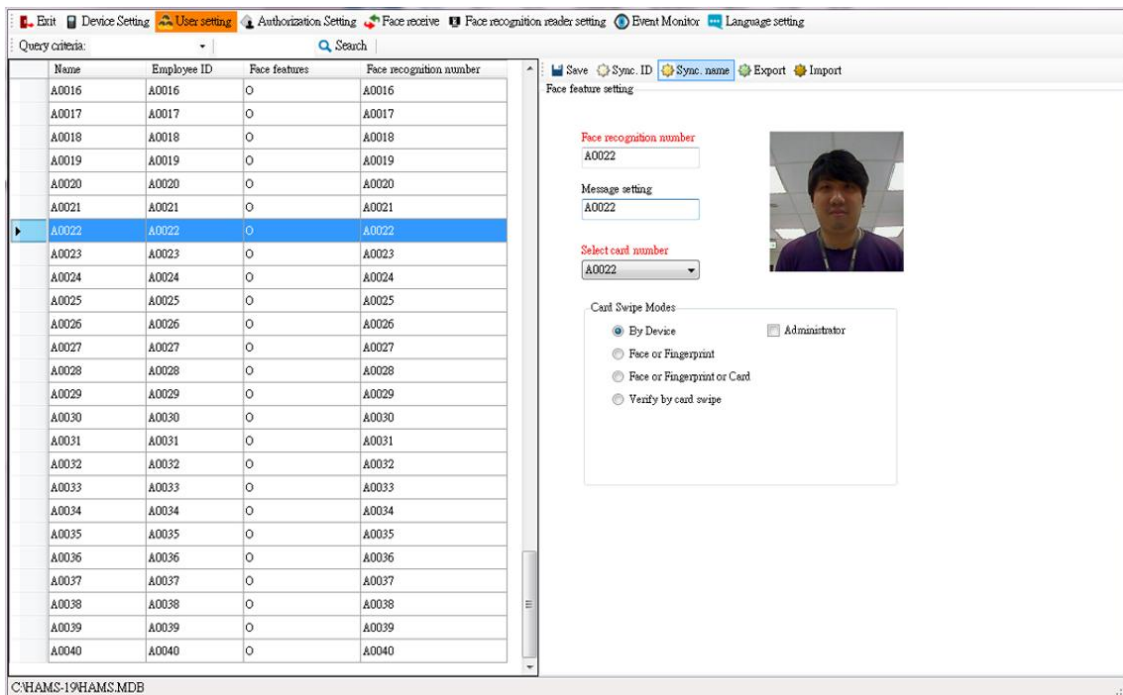
Name	Employee ID	Face features	Face recognition number
DAY1	0000000001		
DAY2	0000000002		
DAY3	0000000003		
DAY4	0000000004		
DAY5	0000000005		
DAY6	0000000006		
DAY7	0000000007		
DAY8	0000000008		
DAY9	0000000009		
DAY10	0000000010		
DAY11	0000000011		
DAY12	0000000012		
DAY13	0000000013		
DAY14	0000000014		
DAY15	0000000015		
AMY16	0000000016		
AMY17	0000000017		
AMY18	0000000018		
AMY19	0000000019		
AMY20	0000000020		
AMY21	0000000021		

The 'Face feature setting' panel on the right is the same as in the previous screenshot, but the 'Select card number' dropdown menu is now set to '0000000001'. The file path at the bottom is 'D:\HAMS-19\HAMS.MDB'.

Operation steps:

1. Please add the user information to the HAMS program.
2. First, the face data is stored the device, you need to use the "Face Receive", its face features are received back to the system. (Please refer to the chapter "Face Receive Settings")
3. Select the user.
4. Select the user 's face recognition number and related parameters.
 - Face recognition number, if the number is over 9999999999, it is invaild.
Notice: The first number cannot be 0. (For instance, it is invalid for 0000000001 and is valid for 1000000001 as well.
 - Message setting: The message will display after the user pass the face recongization by the device.
 - Select card number: Display user card number.
Notice :
 1. In case, the user doesn't have card, and it will not display the card number and it cannot update the authorization, so user should have a card.
 2. It's necessary to choose card number again in HAMSFace user's setting when you need to add or delete card again from HAMS system user's setting.
 - Card Swipe Mode: Provide 3 modes for the recognition settings.
 - By Device.The default setting is face or fingerprint or card number.
 - Face or Fingerprint.
 - Face or Fingerprint or Card.
 - Verify by card swipe
 - Enable administrator and the face will be administrator.

Caution: Not all models of devices provide above modes, depending on actual model.
5. If click on Sync. ID, the system will automatically update Employee ID in Face recognition number field.
6. If click on Sync. name, the system will automatically update Employee name in Message setting field.



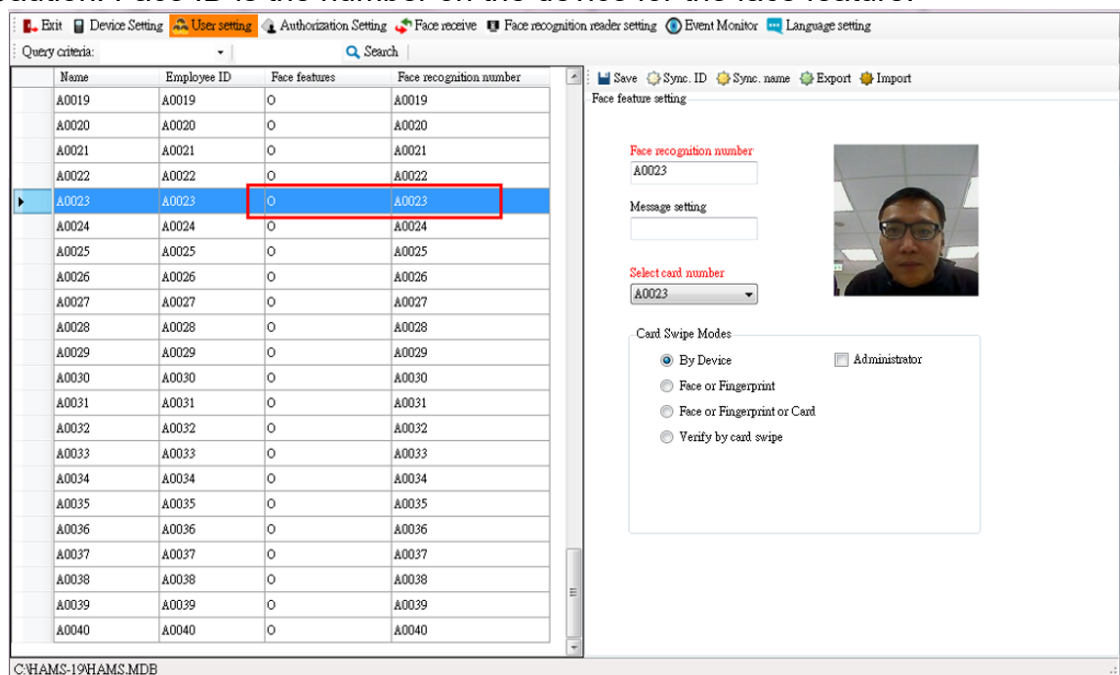
7. **Export** : It will save as TXT file when export face data.

Export data includes EmpNo (Employee ID), CardNo (Card ID), FaceID (Face recognition number).

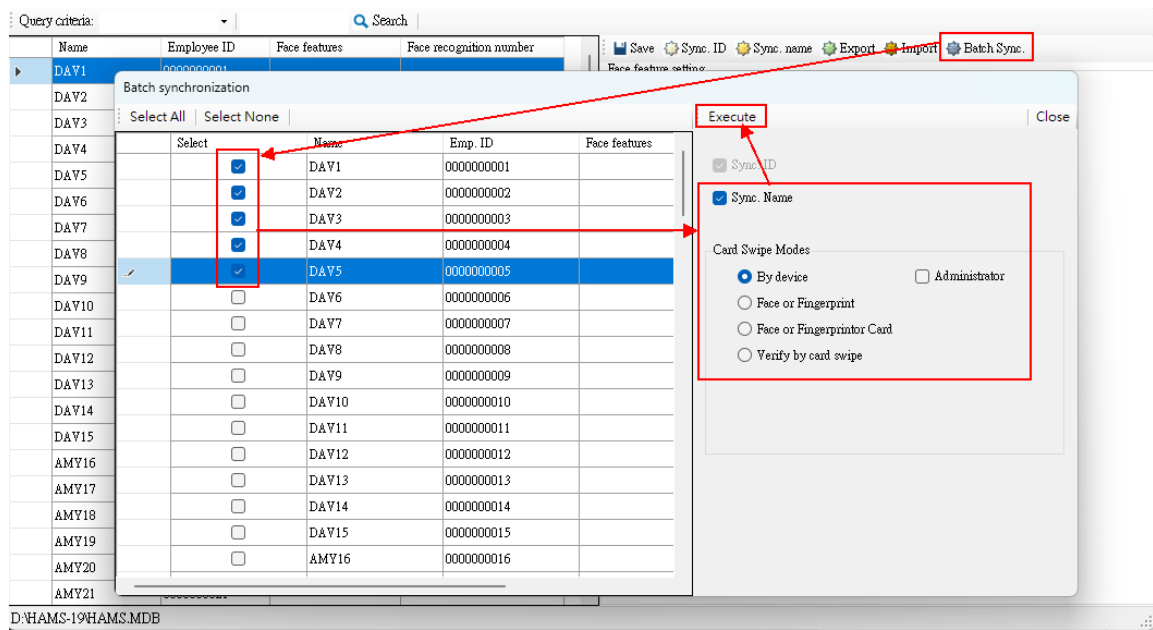
8. **Import** : Select the TXT file to import the face features data.(It is not user's basic information.)

Import data includes EmpNo (Employee ID), CardNo (Card ID), FaceID (Face recognition number).

Caution: Face ID is the number on the device for the face feature.



9. For **Batch Sync**, you can select people, set synchronized names and verification modes in batches, and click to execute synchronization to complete.



4.3 HTA-HFCM

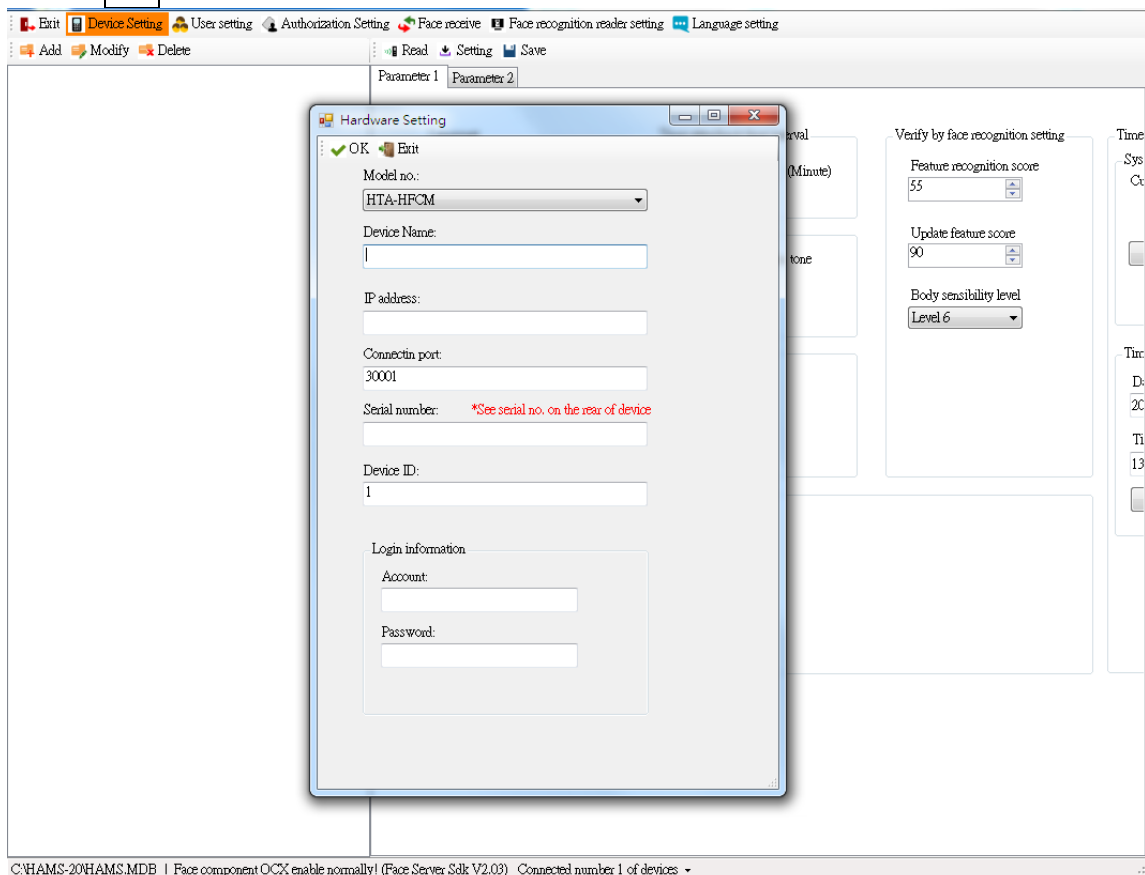
4.3.1 Device Setting

You can add, modify, and delete the device.

Add a new device: Add the parameters and data of the device.

Operation steps:

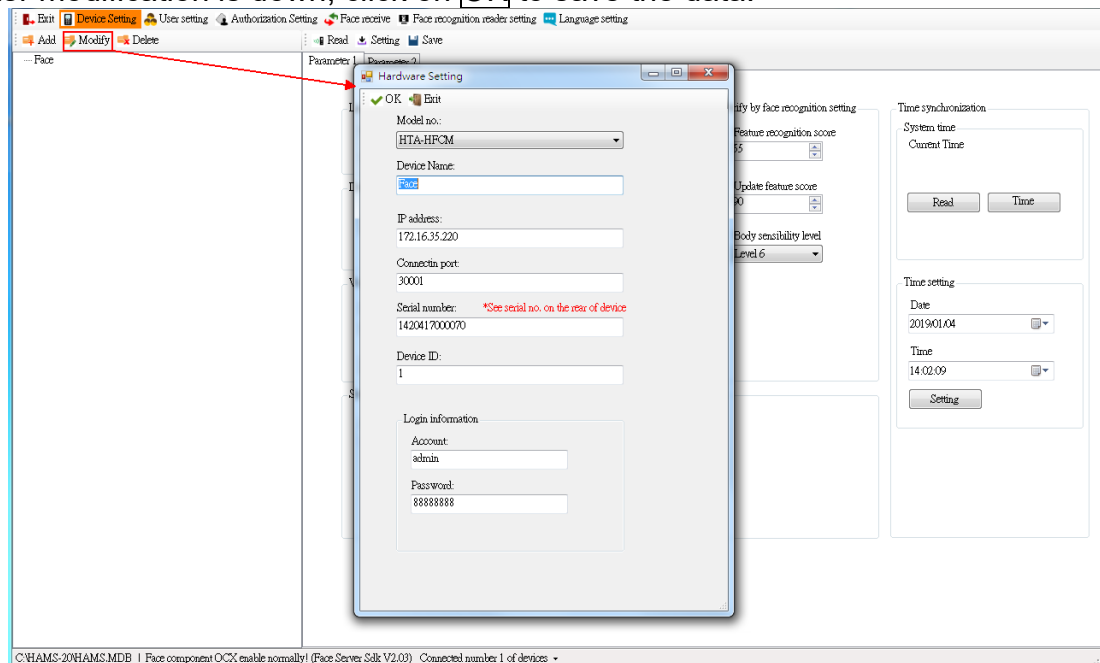
1. Click on **Add**, Hardware Setting screen appears. The current fields are as follows:
 - Model no: Select the device model no.
 - Device Name: Input device name (custom).
 - IP address: Device IP.
 - Connection port: Default is 30001.
 - Serial number: Serial no is shown on the rear side of device.
 - Device ID: Hardware ID.
 - Login information: Account no is admin, Password is 88888888 (default).
2. Click on **OK** to complete the device setting.
3. Click on **Exit** to exit the screen.



Modify the device: modify the parameters and data of the device.

Operation steps:

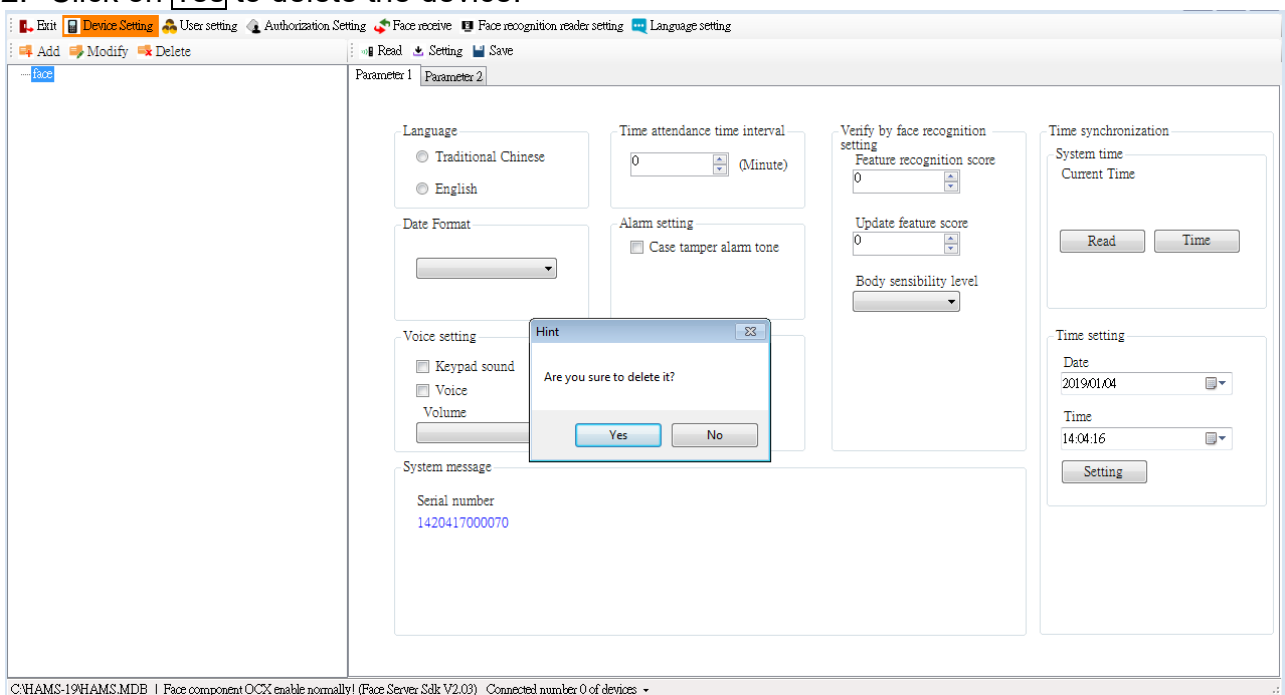
1. Click on **Modify** to pop up Hardware Setting screen.
2. After modification is down, click on **OK** to save the data.



Delete the device: delete the parameters and data of the device.

Operation steps:

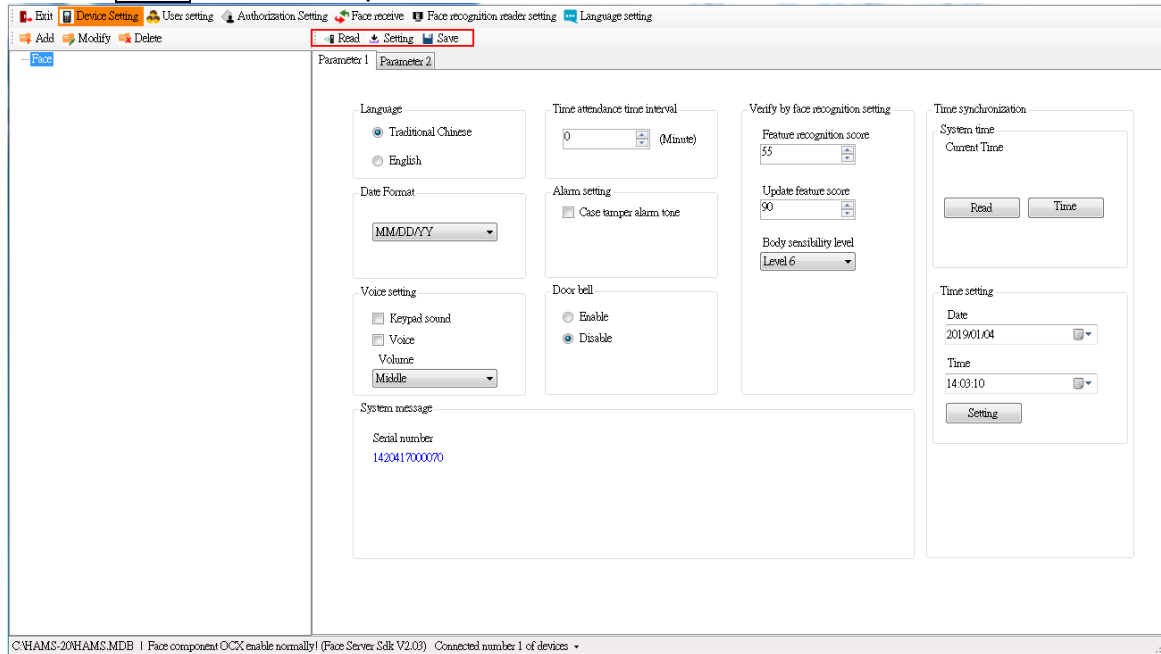
1. Select the device, and click on **Delete**. Before deleting, a hint screen will appear to ask if you are sure to delete the device.
2. Click on **Yes** to delete the device.



Currtion: After the device is deleted, query history will not record the device.

The parameter setting of device :

1. Click on **Read** to read back the settings of Parameter 1 and Parameter 2.
2. Click on **Setting**, and before the parameters take effect, parameter 1 and parameter 2 settings must be down.
3. Click on **Save** to save the parameter modifications.



4.3.1.1 Parameter 1

Hardware parameters set.

Operation steps:

1. Select the device to modify.
2. Click on **Read** to read back the current settings.
3. Modify parameter settings. The parameters that can be modified are as follows:
【Language】 : Set the language of the device display. English and Chinese traditional are provided.

【Date Format】 :The date and time format of the device display is as follows: Y: Year, M: Month, D: Day.

- YY-MM-DD
- YY/MM/DD
- MM-DD-YY
- MM/DD/YY
- DD-MM-YY
- DD/MM/YY

【Voice Setting】 :

- Keypad sound: Keypad sound prompt.
- Voice: Voice prompt after verifying successfully.
- Volume: Adjust the volume of sound.

【Time Attendance Time Interval】 Even though the swipe cards succeed several times, only one record is retained.

【Alarm Setting】 : When the case of device is tampered, the case tamper alarm is issued.

【Door Bell】 : Enable or disable the door bell sound (only the device makes a sound).

【Verify by face recognition setting】

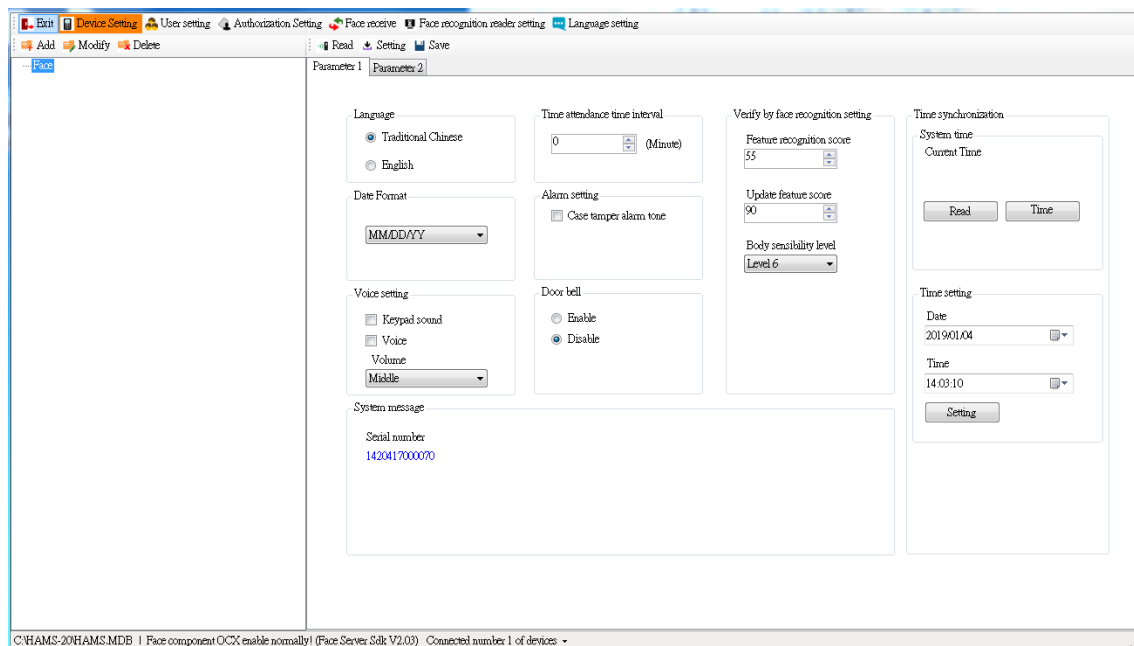
- Feature recognition score: The face recognition is successful, when the similarity exceeds this score.(The default is 55)
Caution: When the score is higher, the verification is stricter and the relative identification time is longer. In contrast, when the score is lower, the standard of verification is lower and the relative recognition time is short, and the error rate is higher.
- Update feature score: If the similarity between the face reorganization and the registered template in the database exceeds the score, the low similarity template will be replaced.(Default is 90)
- Body sensitivity level: When the device senses the human body, it automatically

enters the face recognition screen. Six levels are provided, when the level is higher, the sensitivity is higher.

【System message】 : Show the serial number.

【Time synchronization】 : Perform time synchronization or read time action for the device.

- System time: Click on **Read**, to receive current time of device. Click on **Time** to set the system time.
- Time setting: Select date and time to set time. Click on **Setting** to set time of the device.



Click on **Setting** to modify the settings of the device.

4.3.1.2 Parameter 2

Operation steps:

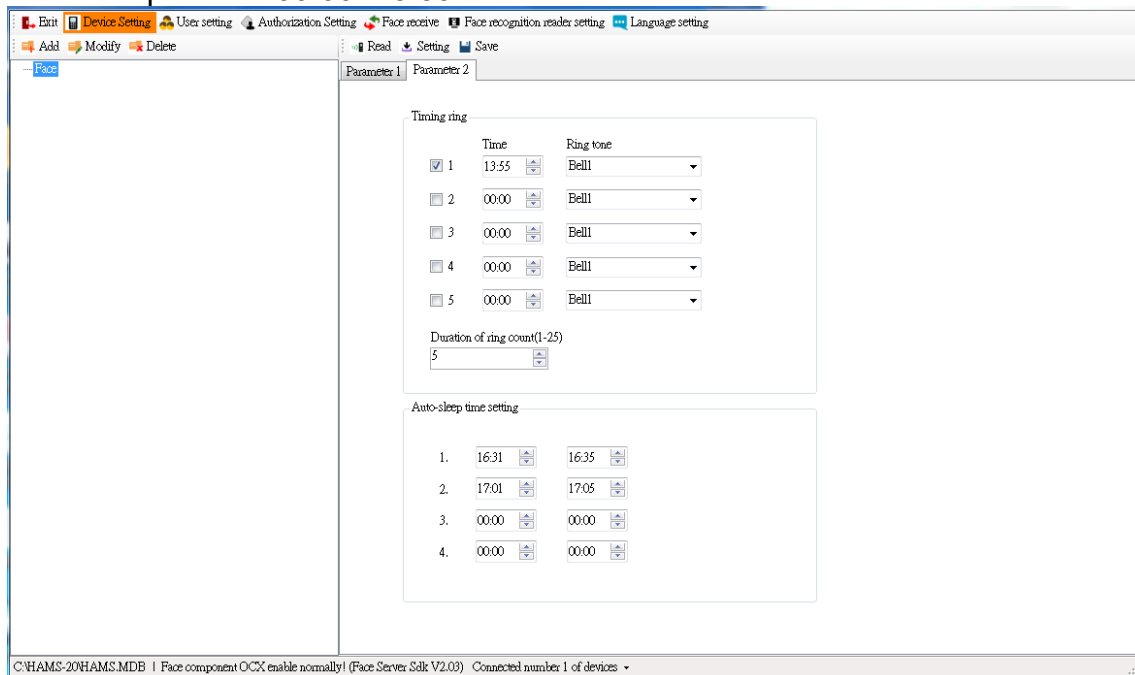
1. Select the device to modify.
2. Click on **Read** to read back the current settings.
3. Modify parameter settings. The parameters that can be modified are as follows:

【Timing ring】 :

- Provide 5 of ring tones for the selection.
- Start time of ring is 00:00~23:59.
- Duration of ring count is 1~25.

【Auto-sleep time setting】 :

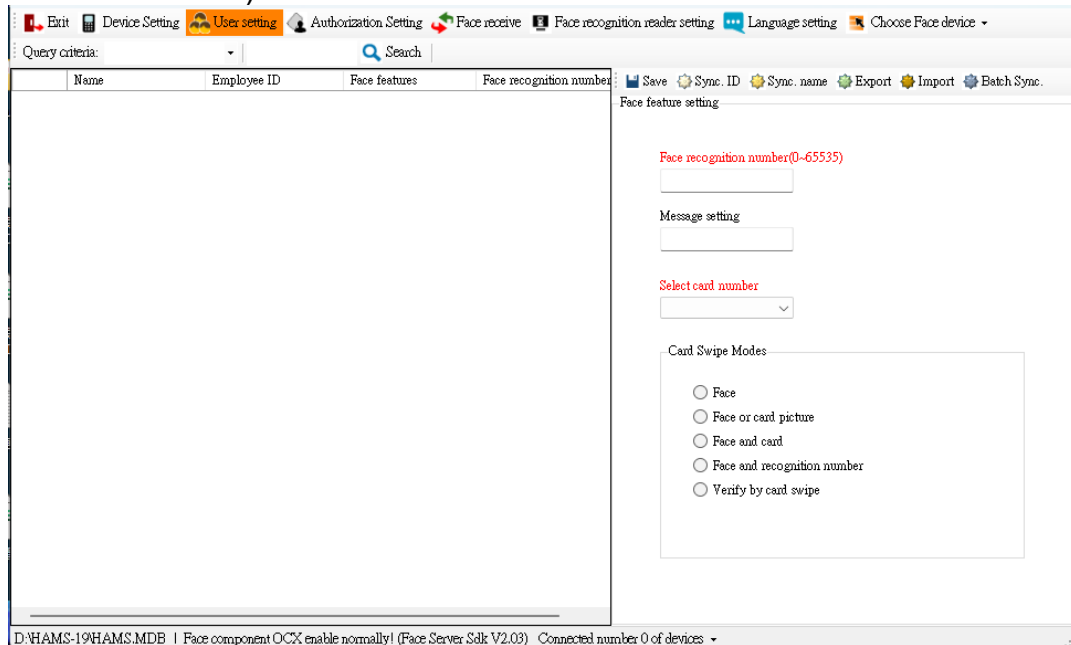
- Provide 4 modes of auto-sleep time.
- Auto-sleep time is 00:00~23:59.



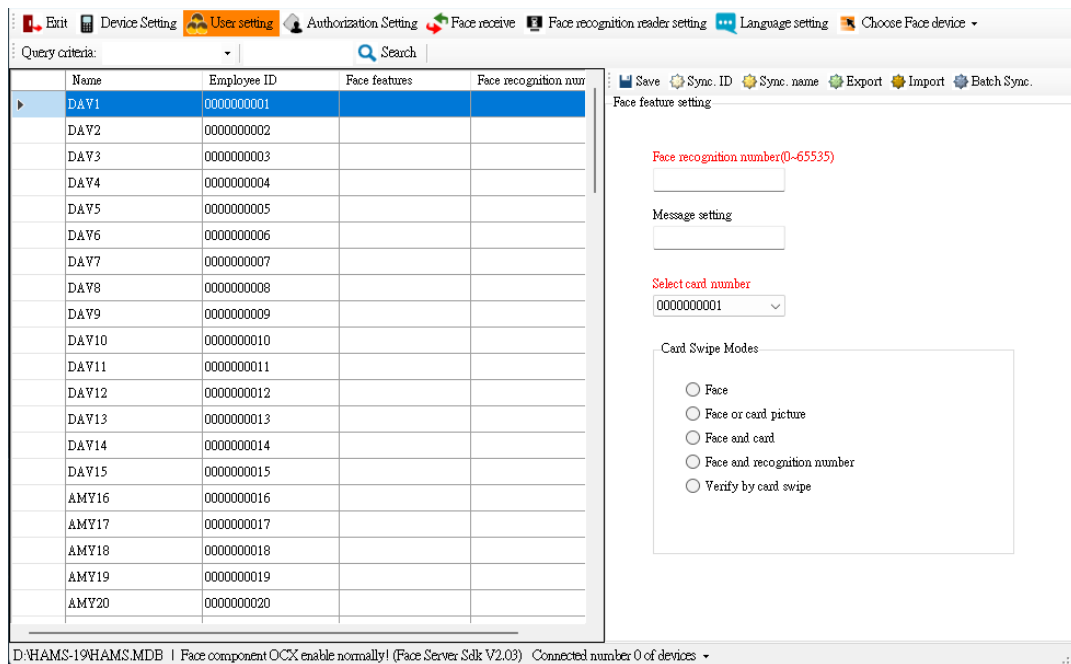
Click on **Setting** to modify the settings on the device.

4.3.2. User Setting

The HAMSFACE program is not built-in any basic user data, so the table is blank. Please add the user information to the HAMS program. (This user needs to have a card corresponding to it. If the user has no card information, this user information will not be displayed on the device.)



If the HAMS program has basic personnel information, it will be displayed directly in the table.



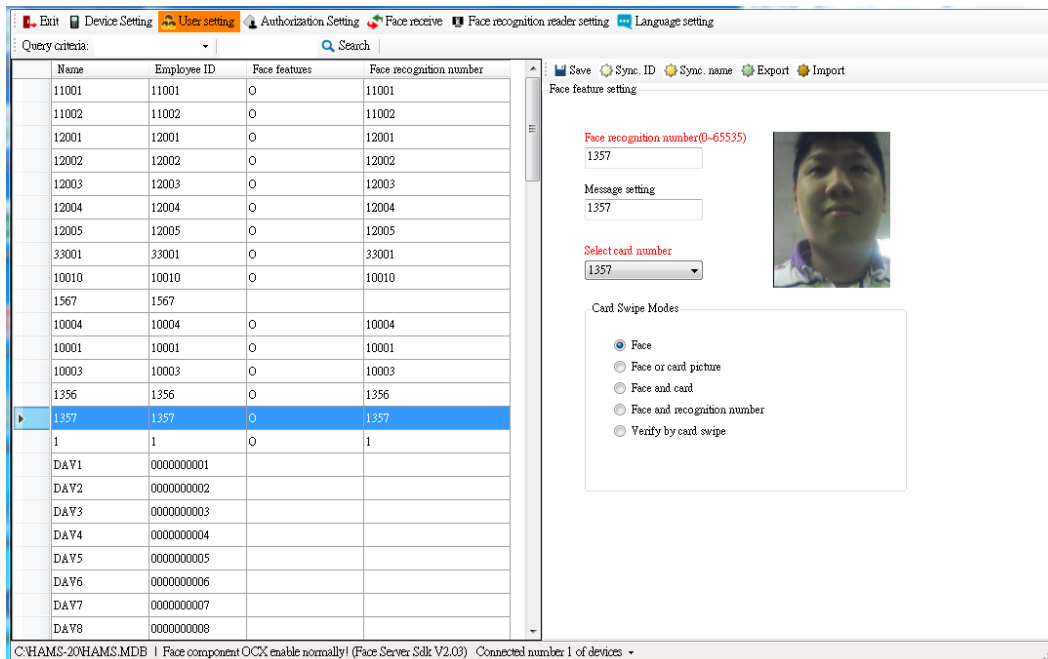
Operation steps:

1. Please add the user information to the HAMS program.
2. First, the face data is stored the device, you need to use the "Face Receive", its face features are received back to the system. (Please refer to the chapter "Face Receive Settings")
3. Select the user.
4. Select the user 's face recognition number and related parameters.
 - Face recognition number (0~65535), if the number is over 65535, it is invalid.
 - Message setting: The message will display after the user pass the face recongization by the device.
 - Select card number: Display user card number.

Notice :

 1. In case, the user doesn't have card, and it will not display the car number and it cannot update the quthorization, so user should have a card.
 2. It's necessary to choose card number again in HAMSFace user's setting when you need to add or delete card again from HAMS system user's setting.
 - Card Swipe Mode: Provide 5 modes for the recognition settings.
 - Face.
 - Face or card picture.
 - Face and card.
 - Face and recognition number.
 - Verify by card swip.

Caution: Not all models of devices provide above modes, depending on actual model.
5. If click on Sync. ID, the system will automatically update Employee ID in Face recognition number field.
6. If click on Sync. name, the system will automatically update Employee name in Message setting field.



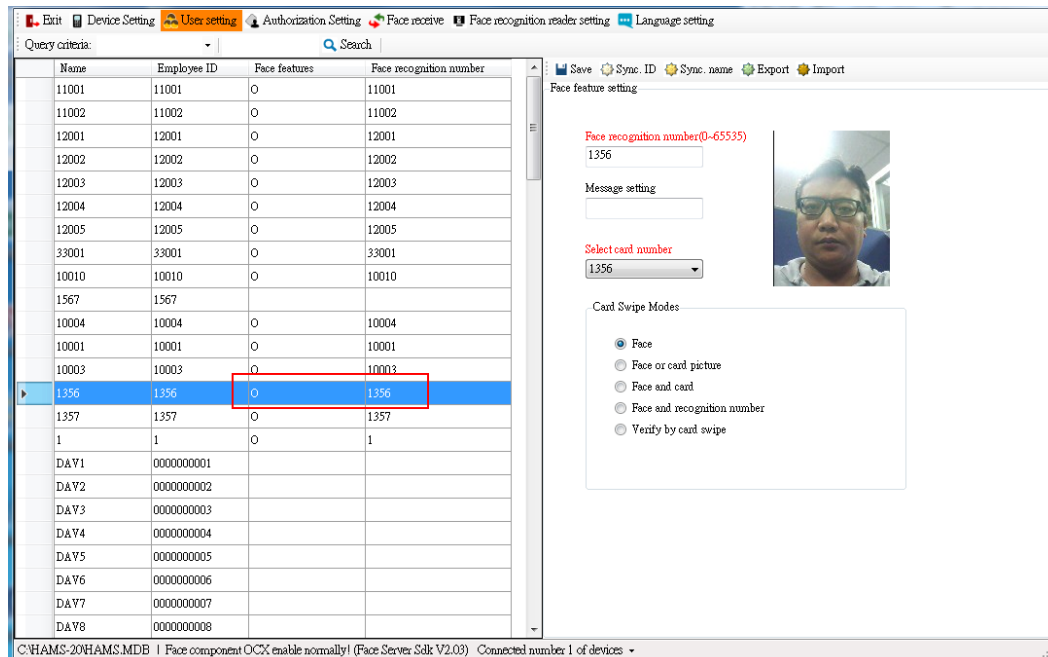
7. **Export** : It will save as TXT file when export the face data.

Export data includes EmpNo (Employee ID), CardNo (Card ID), FaceID (Face recognition number).

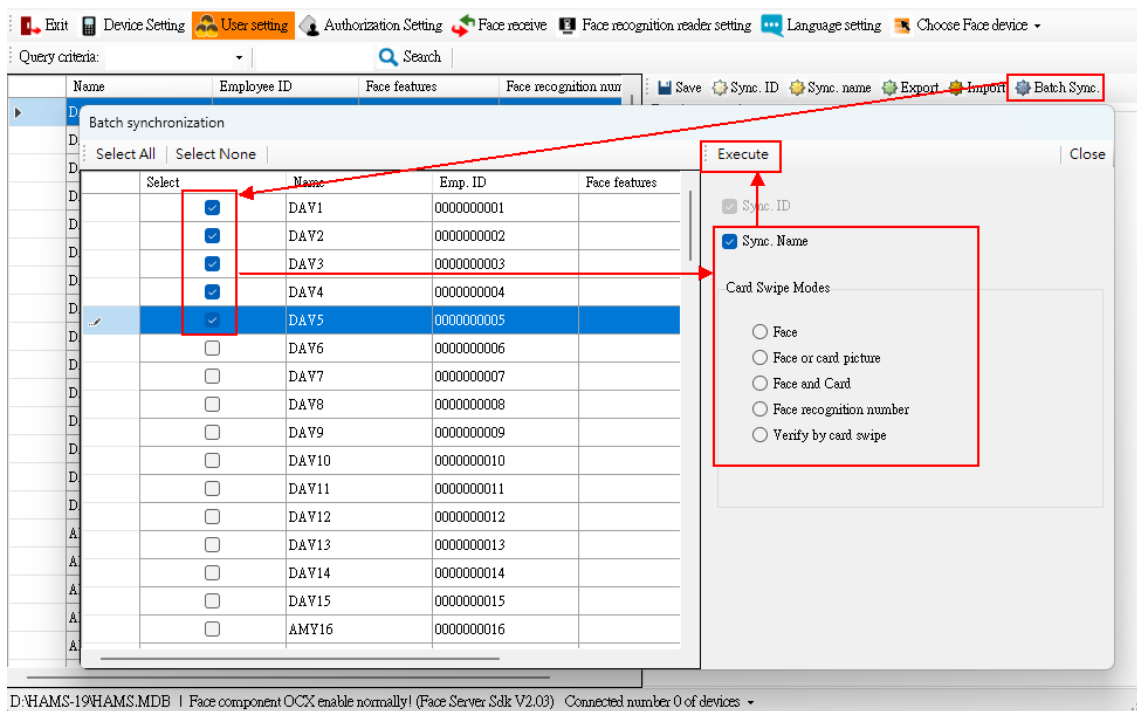
8. **Import** : Select the TXT file to import the face features data.(It is not user basic information.)

Import data includes EmpNo (Employee ID), CardNo (Card ID), FaceID (Face recognition number).

Caution: Face ID is the number on the device for the face feature.



9. For **Batch Sync.**, you can select people, set synchronized names and verification modes in batches, and click to execute synchronization to complete.



4.4 HunFaceEY-Z2

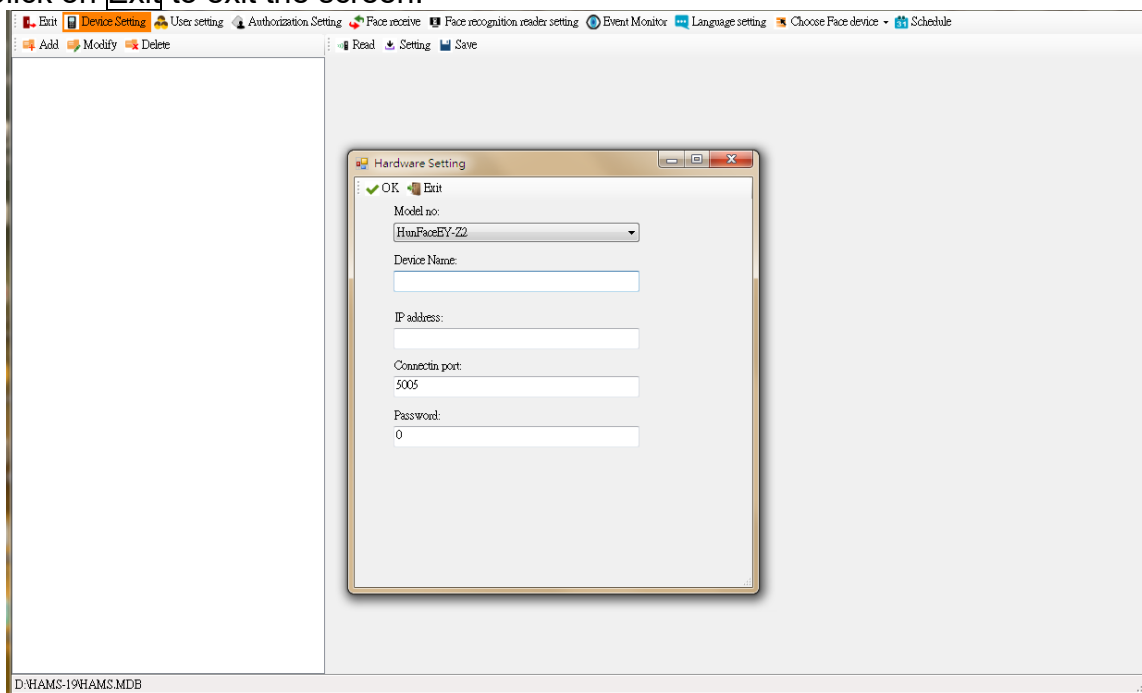
4.4.1 Device Setting

You can add, modify, and delete the device.

Add a new device: Add the parameters and data of the device.

Operation steps:

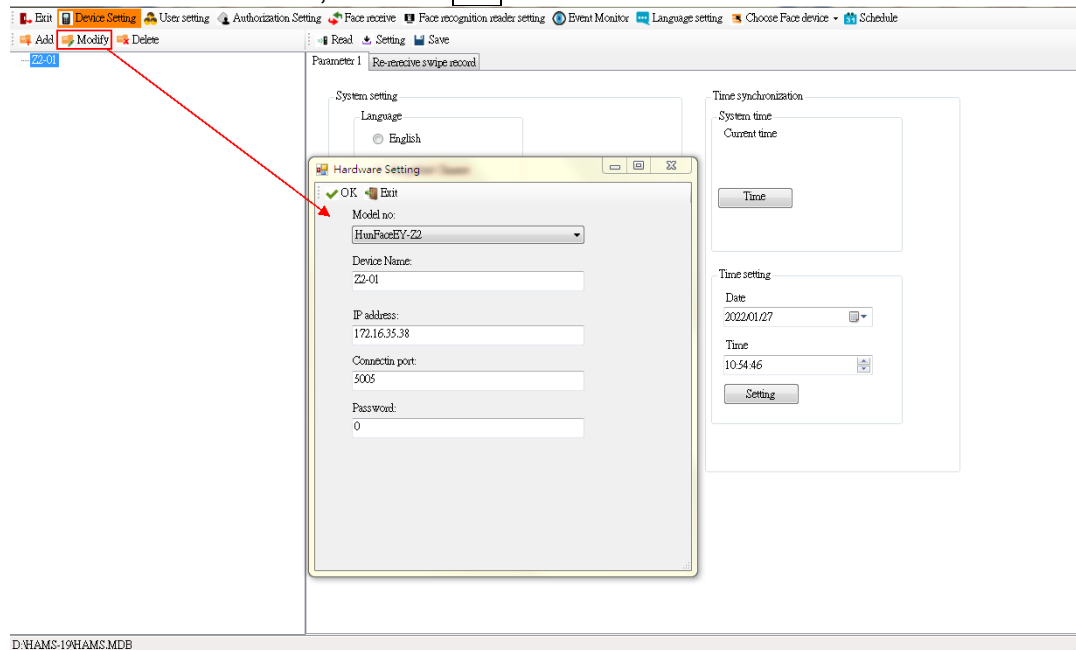
1. Click on **Add**, Hardware Setting screen appears. The current fields are as follows:
 - Model no: Select the device model no.
 - Device Name: Input device name (custom).
 - IP address: Device IP.
 - Connection port: Default is 5005.
 - Password: The software will verify the hardware device when the communication is built.
2. Click on **OK** to complete the device setting.
3. Click on **Exit** to exit the screen.



Modify the device: modify the parameters and data of the device.

Operation steps:

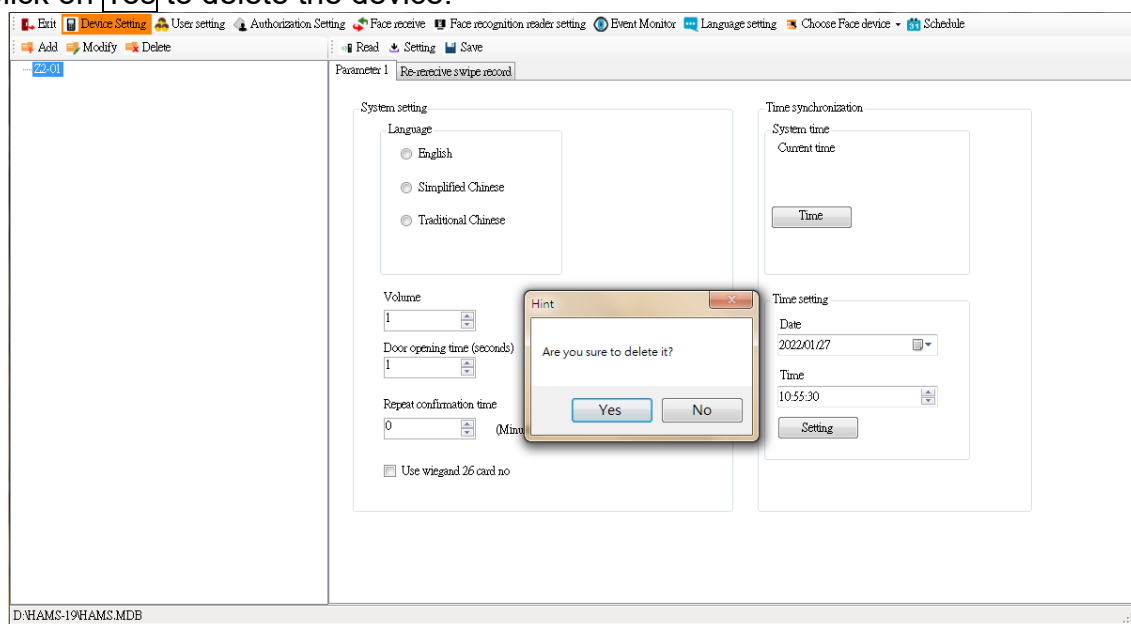
1. Click on **Modify** to pop up Hardware Setting screen.
2. After modification is down, click on **OK** to save the data.



Delete the device: delete the parameters and data of the device.

Operation steps:

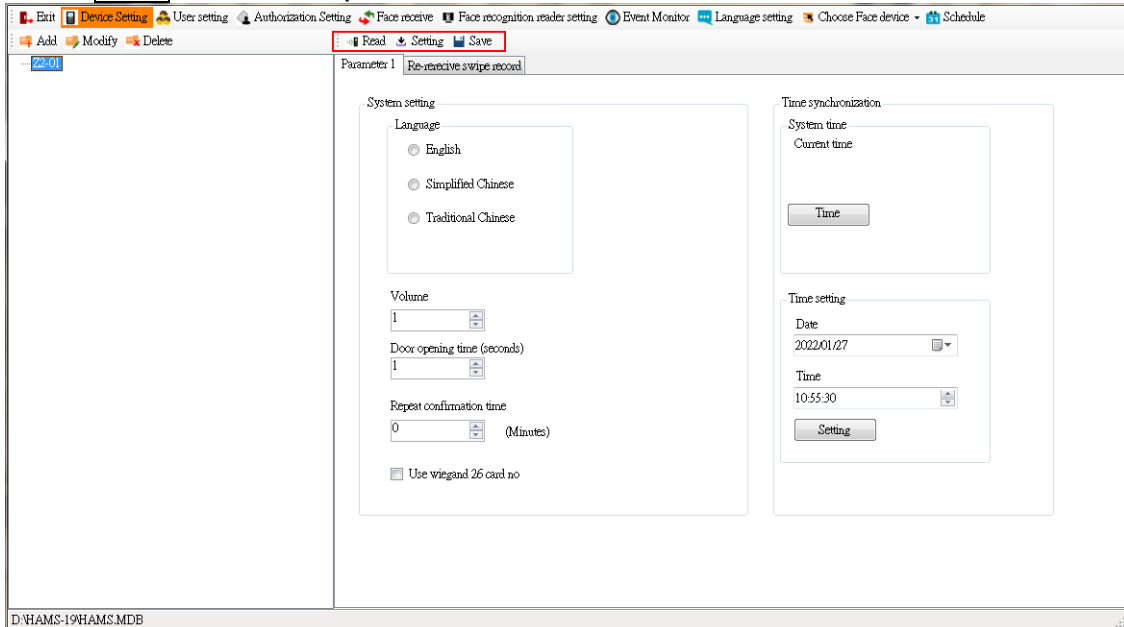
1. Select the device, and click on **Delete**. Before deleting, a hint screen will appear to ask if you are sure to delete the device.
2. Click on **Yes** to delete the device.



Currtion: After the device is deleted, query history will not record the device.

The parameter setting of device :

1. Click on **Read** to read back the settings of Parameter 1.
2. Click on **Setting**, and before the parameters take effect, parameter 1 settings must be down.
3. Click on **Save** to save the parameter modifications.



4.4.1.1 Parameter 1

Hardware parameters set.

Operation steps:

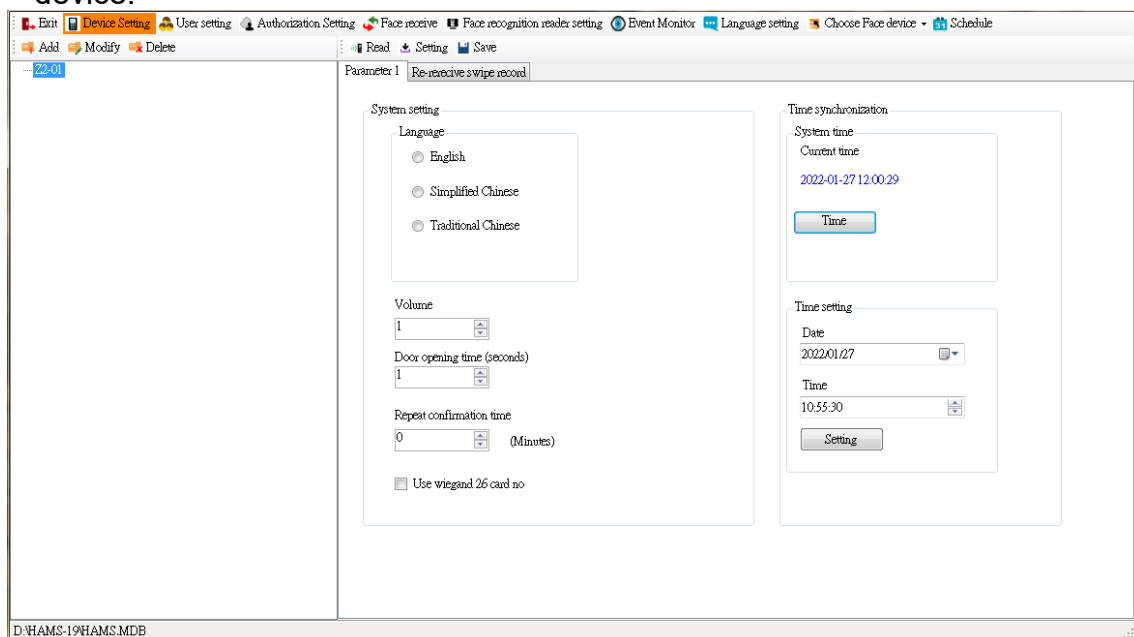
1. Select the device to modify.
2. Click on **Read** to read back the current settings.
3. Modify parameter settings. The parameters that can be modified are as follows:

【System setting】

- Language : Set the language of the device display. English 、Simplified Chinese and Chinese traditional are provided.
- Volume : Can adjust the volume of the sound (up to 10).
- Door opening time(seconds) : Set the door opening action time (maximum 100 seconds).
- Repeat confirmation time : During the period, device will only keep the first record of authorized user.
- Use Wiegand 26 card no. : Enable Wiegand 26. (Default setting is Wiegand 34.)

【Time synchronization】 Perform time synchronization or read time action for the device.

- System time: Click on **Read**, to receive current time of device. Click on **Time** to set the system time.
- Time setting: Select date and time to set time. Click on **Setting** to set time of the device.



4. Click on **Setting** to modify the settings of the device.

4.4.2 User Setting

The HAMSFACE program is not built-in any basic user data, so the table is blank. Please add the user information to the HAMS program.

The screenshot shows the 'User setting' window of the HAMSFACE program. The window has a menu bar with options: Exit, Device Setting, User setting (highlighted), Authorization Setting, Face receive, Face recognition reader setting, Event Monitor, Language setting, and Choose Face device. Below the menu bar is a search bar with 'Query criteria:' and a 'Search' button. The main area is divided into two panes. The left pane contains a table with the following columns: Name, Employee ID, Face features, and Face recognition number. The table is currently empty. The right pane is titled 'Face feature setting' and contains several configuration options: 'Face recognition number' (a text input field), 'Message setting' (a text input field), 'Select card number' (a dropdown menu), and 'Card Swipe Modes' (a group of radio buttons). The 'Card Swipe Modes' section includes 'By Device' (selected), 'Face or Fingerprint', 'Face or Fingerprint or Card', and 'Verify by card swipe'. There is also an 'Administrator' checkbox. The status bar at the bottom indicates 'D:\HAMS-19\HAMS.MDB'.

Name	Employee ID	Face features	Face recognition number
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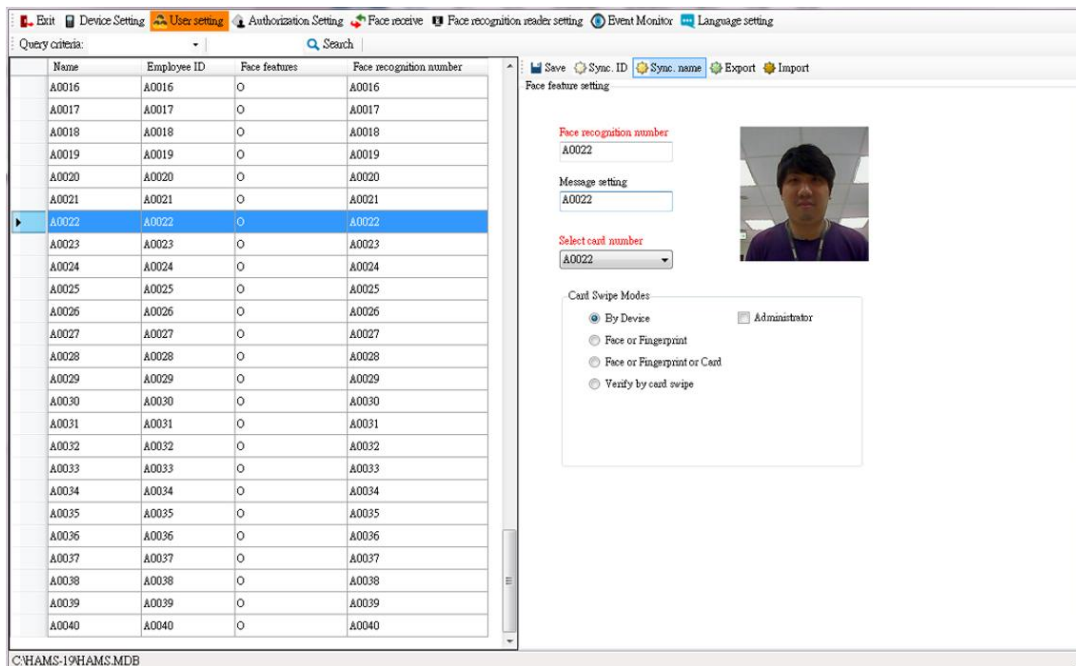
If the HAMS program has basic personnel information, it will be displayed directly in the table.

The screenshot shows the 'User setting' window of the HAMSFACE program, similar to the previous one, but with the table populated with personnel information. The table has the same columns: Name, Employee ID, Face features, and Face recognition number. The data is as follows:

Name	Employee ID	Face features	Face recognition number
DAV1	000000001		
DAV2	000000002		
DAV3	000000003		
DAV4	000000004		
DAV5	000000005		
DAV6	000000006		
DAV7	000000007		
DAV8	000000008		
DAV9	000000009		
DAV10	000000010		
DAV11	000000011		
DAV12	000000012		
DAV13	000000013		
DAV14	000000014		
DAV15	000000015		
AMY16	000000016		
AMY17	000000017		
AMY18	000000018		
AMY19	000000019		
AMY20	000000020		

Operation steps:

10. Please add the user information to the HAMS program.
11. First, the face data is stored the device, you need to use the "Face Receive", its face features are received back to the system. (Please refer to the chapter "Face Receive Settings")
12. Select the user.
13. Select the user 's face recognition number and related parameters.
 - Face recognition number, if the number is over 9999999999, it is invaild.
Notice: The first number cannot be 0. (For instance, it is unvalid for 0000000001, it is valid for 1000000001 as well.
 - Message setting: The message will display after the user pass the face recongization by the device.
 - Select card number: Display user card number.
Notice :
 1. In case, the user doesn't have card, and it will not display the car number and it cannot update the uthorization, so user should have a card.
 2. It's necessary to choose card number again in HAMSFace user's setting when you need to add or delete card again from HAMS system user's setting.
 - Card Swipe Mode: Provide 3 modes for the recognition settings.
 - By Device.The default setting is face or fingerprint or card number.
 - Face or Fingerprint.
 - Face or Fingerprint or Card.
 - Verify by card swipe
 - Enable administrator and the face will be administrator.
Caution: Not all models of devices provide above modes, depending on actual model.
14. If click on Sync. ID, the system will automatically update Employee ID in Face recognition number field.
15. If click on Sync. name, the system will automatically update Employee name in Message setting field.



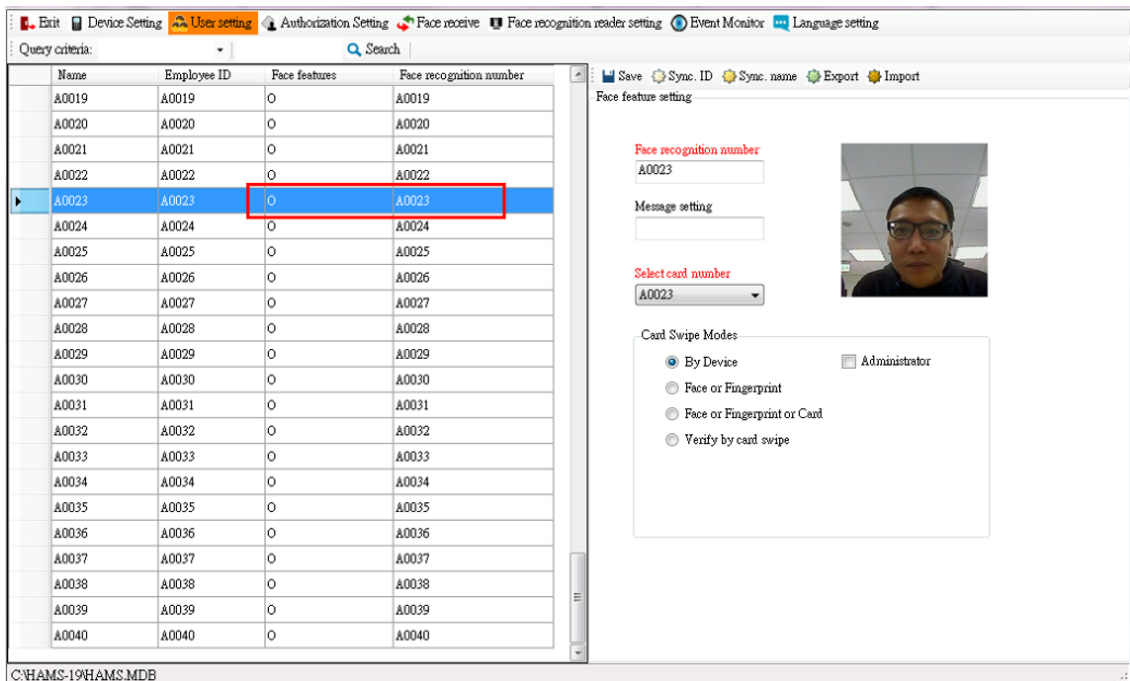
16. **Export** : It will save as TXT file when export face data.

Export data includes EmpNo (Employee ID), CardNo (Card ID), FaceID (Face recognition number).

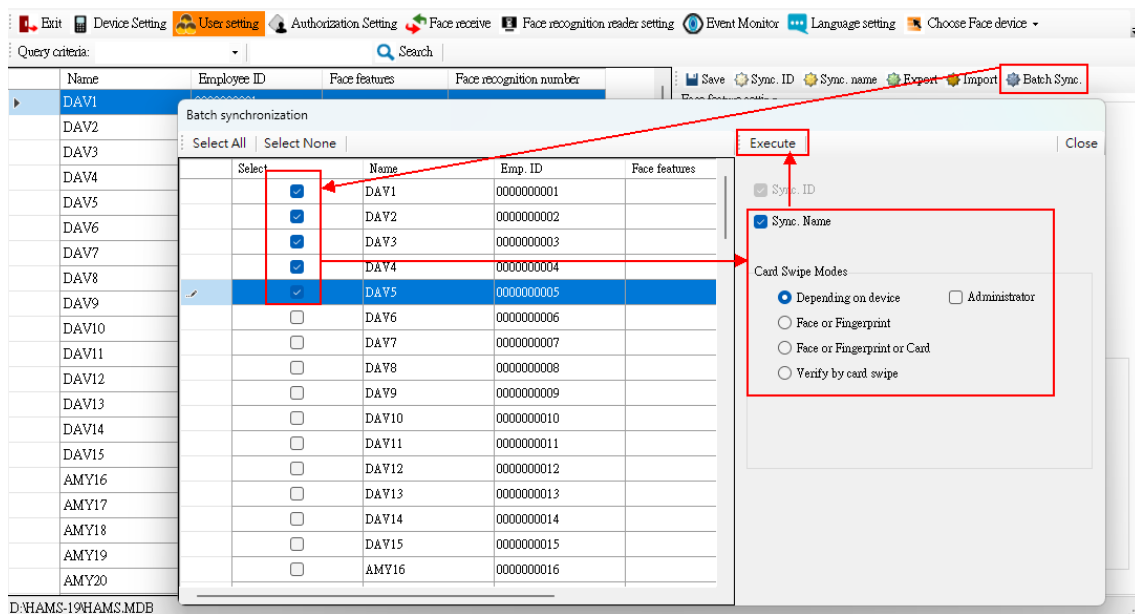
17. **Import** : Select the TXT file to import the face features data.(It is not user's basic information.)

Import data includes EmpNo (Employee ID), CardNo (Card ID), FaceID (Face recognition number).

Caution: Face ID is the number on the device for the face feature.



18. For **Batch Sync**, you can select people, set synchronized names and verification modes in batches, and click to execute synchronization to complete.



D:\HAMS-19\HAMS.MDB

4.5 HunFaceDX-PK

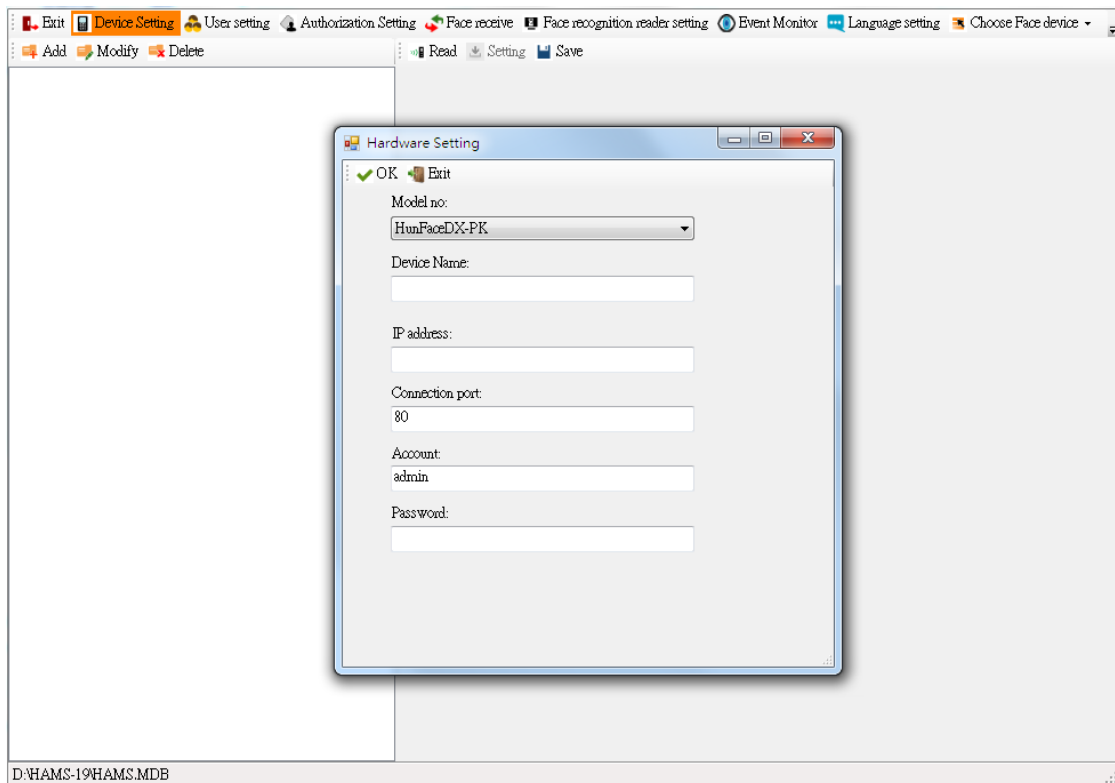
4.5.1 Device Setting

Add, modify, and delete the device.

Add a new device: Add the parameters and data of the device.

Operation steps:

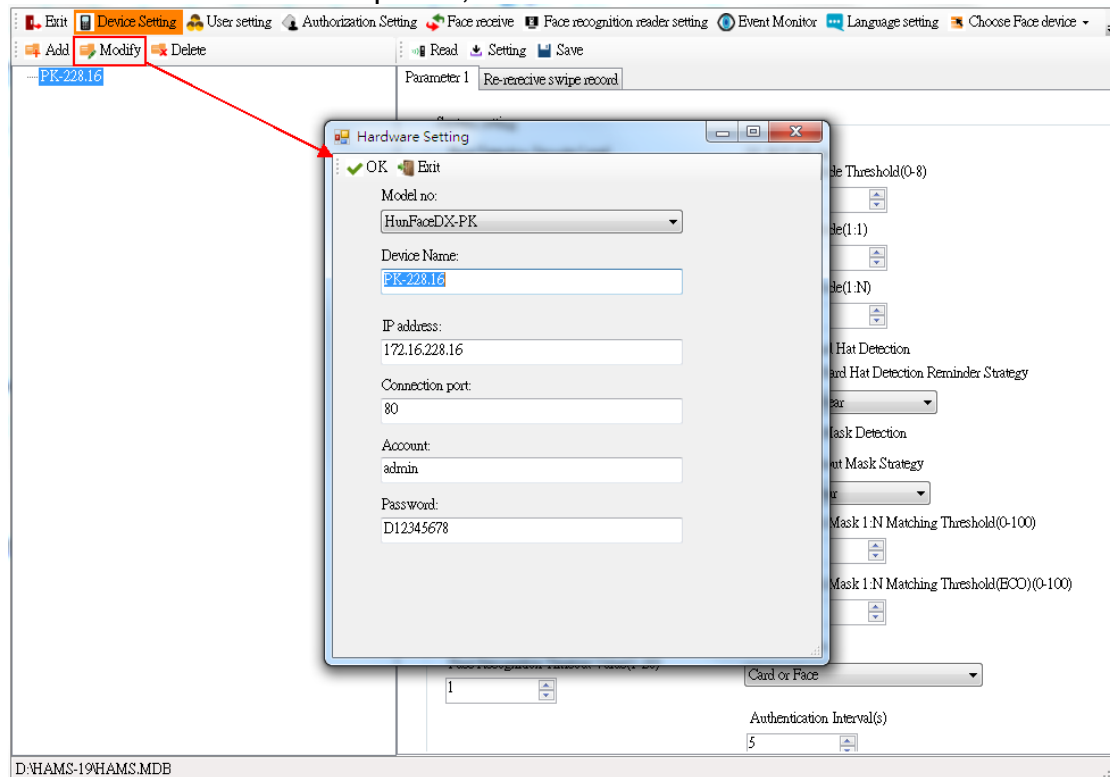
1. Click "Add", the hardware setting screen will pop up, the current fields are as follows.
 - Model no: Select the current device model no..
 - Device name: Input the device name (custom).
 - IP address: Device IP.
 - Connection port: The default is 80.
 - Account: The default is admin.
 - Enter the password that was set when starting the device. The device will be locked for 30 minutes if the wrong password is entered five times in a row. (Use at least 8 codes, including capital and small English letters, numbers and special symbols)
2. Click "OK" to complete the setting of adding a device.
3. Click "Exit" to close the screen.



Modify a device: modify the parameters and data of the device.

Operation steps:

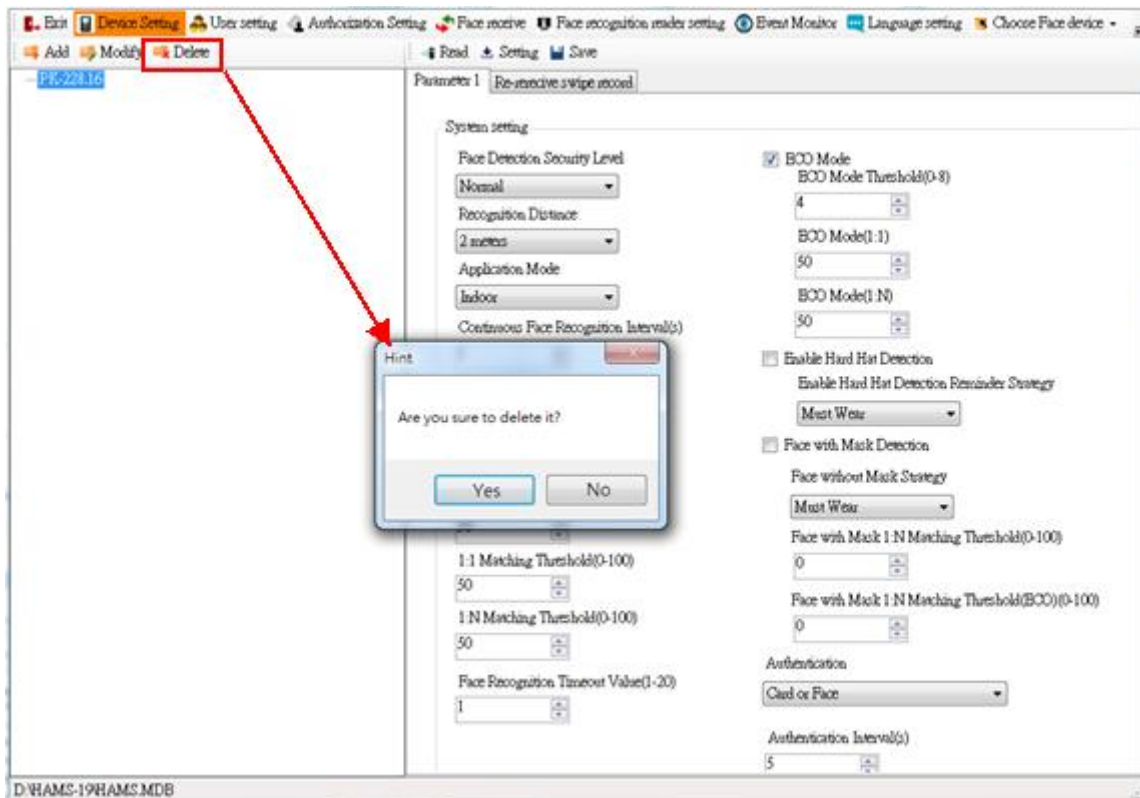
1. Click “Modify”, the hardware setting window will pop up.
2. After the modification is completed, click “OK” to save the device data.



Delete a device: delete the parameters and data of the device.

Operation steps:

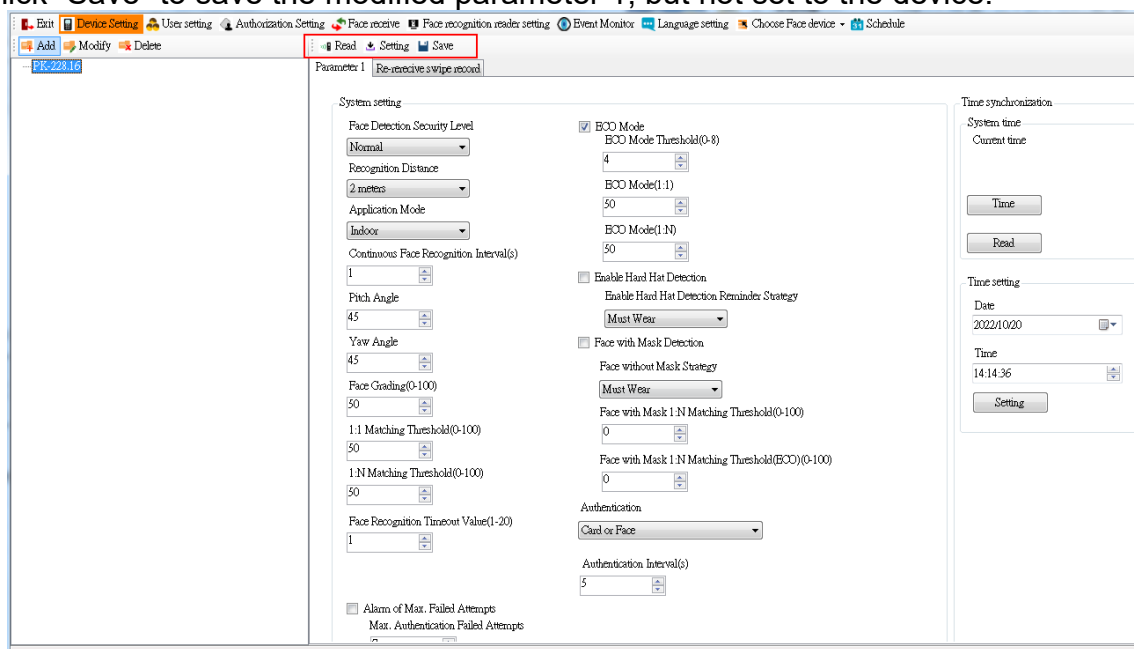
1. Select the device to be deleted and click “Delete”. Before the deletion is complete, the system will ask again whether to delete it.
2. Click “Yes” to delete the device.



Note: After the device is deleted, the history record of this device will not be queried

The device parameter settings:

1. Click "Read" to read the system setting values of parameter1.
2. Click "Setting" to set parameter1 to the device.
3. Click "Save" to save the modified parameter 1, but not set to the device.



4.5.1.1 Parameter 1

To use for system settings. (Please do not modify the parameters arbitrarily. If you need to modify, please consult the system engineer.)

Operation steps:

1. Select a device is to be modified.
2. Click “Read” to read the current setting values.
3. Modify the setting values of parameters. The parameters that can be modified are as follows:

【System settings】

- Face Detection Security Level: divided into general, high standard, and highest standard. The higher the level, the lower the false recognition rate and the higher the rejection rate.
- Recognition Distance: can recognize the distance from the user’s face to device effectively. The distance is divided into automatic, 0.5 m, 1 m, 1.5 m and 2 m.
- Application Mode: Select indoor mode or other mode according to the actual situation.
- Continuous Face Recognition Intervals (Sec.): During the authentication process, the interval between the two face recognitions before and after.
- Pitch Angle (degrees): The maximum angle at which the head can be raised or lowered during face detection. When face comparison or login, the angle of raising or lowering the head must be less than the set value, and the default angle is 45 degrees.
- Yaw Angle (degrees): The maximum angle that can be rotated to the left or right during face detection. When face comparison or login, the angle of left or right rotation must be less than the set value, and the default angle is 45 degrees.
- Face Grading (0~100): The default value is 50.
- 1:1 Matching Threshold (0~100): The larger the value, the lower the false recognition rate and the higher the rejection rate when recognizing faces, and the maximum value can be 100.
- 1:N Matching Threshold (0~100): The larger the value, the lower the false recognition rate and the higher the rejection rate when recognizing faces, and the maximum value can be 100.
- Face Recognition Timeout Value (0~20): The timeout period for face recognition. When the face recognition time exceeds the set value, the device will prompt the

face recognition timeout.

- Number of failures to be enabled: Check to enable, and the maximum number of failures will be used as the basis.
- Alarm of Max. Failed Attempts: Max. Authentication Failed Attempts. (Can be set up to 100 times)
- Enable Tampering Detection: The function is reserved.
- Enable Card No. Reversing: The default is not enabled, and when this function is enabled, the card reader will reverse the order of the card numbers after reading the card numbers.
- ECO Mode: After enabling, in low light or no light environment, the device enables the infrared camera to perform face comparison.
 - ECO Mode Threshold (0~8) : The larger the value, the easier it is for the device to enter the green mode; the smaller the value, the less easy it is to enter the green mode. The value is related to the light intensity, and the maximum can be set to 8.
 - ECO Mode[1:1](0~100) : The value when the camera performs 1:1 face comparison. The larger the value, the lower the false recognition rate of face recognition and the higher the rejection rate. The maximum value can be set to 100.
 - ECO Mode[1:N](0~100) : The value when the camera performs 1:N comparison of faces. The larger the value, the lower the false recognition rate of face recognition and the higher the rejection rate. The maximum value can be set to 100.
- Enable Head Hat Detection: After enabling, the device will detect the head hat when performing face authentication.
- Enable Head Hat Detection Reminder Strategy: This function setting is valid only when the user selects "Enable Head Hat Detection".
 - No Reminder
 - Reminder to Wear
 - Must Wear
- Face with Mask Detection: After enabling, the device will detect the face with mask when performing face authentication.
 - No Reminder
 - Reminder to Wear: If the verified person does not wear a mask, the device will remind him to wear a mask and open the door.
 - Must Wear: If the verified person does not wear a mask, the device will

remind him to wear a mask and the door doesn't be opened.

- Face with Mask 1:N Matching Threshold (0~100): The higher the value means the lower the misrecognition rate of recognizing faces wearing masks, and the higher the rejection rate. The maximum value can be 100.
- Face with Mask 1:N Matching Threshold (ECO) (0~100): The default is 70.
- Face without Mask Strategy: This function setting is valid only when the user selects "Face with Mask Detection".
- Authentication: Select an authentication method from the drop-down box as required. Provide Card, Card and Face, Faces, Card, or Face.
- Authentication Interval (S): For face recognition, the default is 5.

【Time synchronization】 Perform time calibration or read-time actions for the device.

- System time: Click "Time", the date and time of the system is set to the device.
- Time setting: The date and time can be set in customized. Click "Setting", the customized date and time of the system is set to the device.

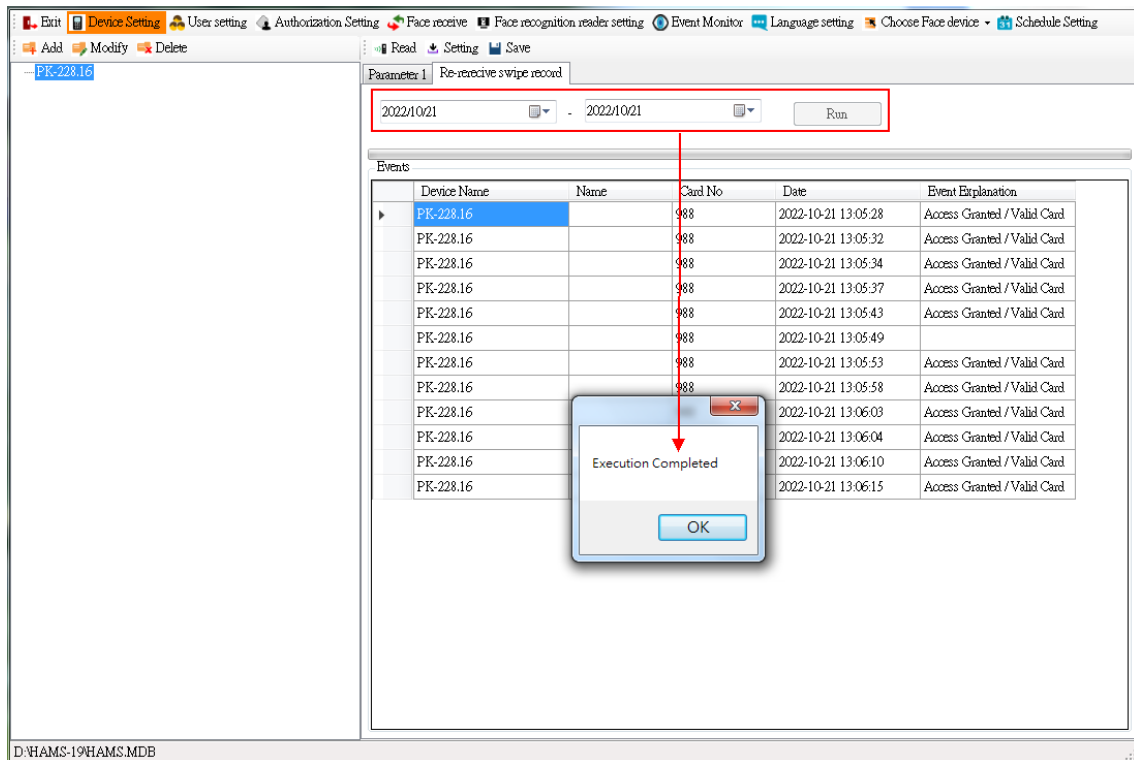
4. Click "Setting" to set the modified values to the device.

4.5.1.2 Re-receive Swipe Record

Re-receive card swipe records.

Operation steps:

1. Select date period.
2. Click “Run”, to display the re-received swipe card records.



4.5.2 User Setting

If no basic user information is built in HAMSFACE, the list table will be blank. Please add user information to HAMS. (The user needs to have the corresponding card. If the user has no card information, his information will not be displayed here.)

The screenshot shows the 'User setting' tab in the HAMSFACE application. The main area contains a table with the following headers: Name, Employee ID, Face features, and Face recognition number. The table is currently empty. To the right of the table is a 'Face feature setting' panel with the following options:

- Face recognition number: [Text input field]
- Message setting: [Text input field]
- Select card number: [Dropdown menu]
- Card Swipe Modes:
 - ☒ Depending on device
 - ☐ Card
 - ☐ Face and Card
 - ☐ Face
 - ☐ Card or Face
- ☐ Administrator

At the bottom of the window, the file path 'D:\HAMS-19\HAMS.MDB' is visible.

If the user information has been built in HAMS already, the list table will display the user information directly.

The screenshot shows the 'User setting' tab in the HAMSFACE application with a populated table. The table contains the following data:

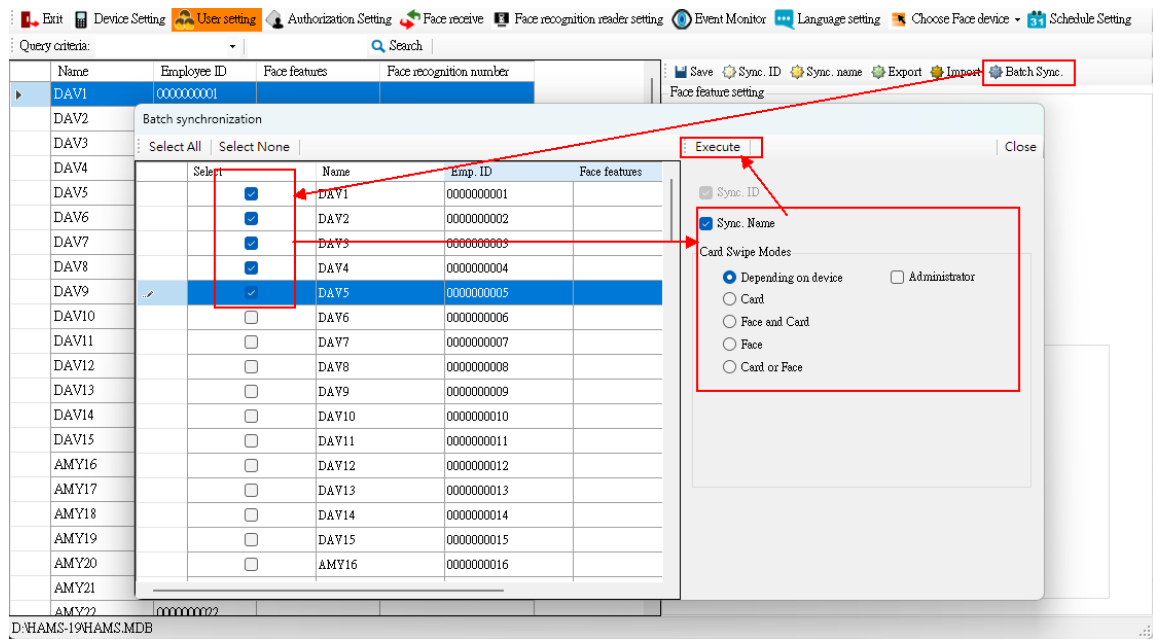
Name	Employee ID	Face features	Face recognition number
DAV1	000000001		
DAV2	000000002		
DAV3	000000003		
DAV4	000000004		
DAV5	000000005		
DAV6	000000006		
DAV7	000000007		
DAV8	000000008		
DAV9	000000009		
DAV10	000000010		
DAV11	000000011		
DAV12	000000012		
DAV13	000000013		
DAV14	000000014		
DAV15	000000015		
AMY16	000000016		
AMY17	000000017		
AMY18	000000018		
AMY19	000000019		
AMY20	000000020		
AMY21	000000021		
AMY22	000000022		

The 'Face feature setting' panel on the right is identical to the one in the previous screenshot, but the 'Select card number' dropdown menu is now set to '000000001'. The file path 'D:\HAMS-19\HAMS.MDB' is still visible at the bottom.

Operation Steps:

1. Please add the basic information of the users to HAMS.
2. It is necessary to execute "Face Receive" first to retrieve the facial feature data on the device. (Please refer to the chapter [Face Receive Setting])
3. Select the user.
4. Select the user's face recognition number and related parameters.
 - Face recognition number, if the number is over 9999999999, it is invalid.
Note: The first number cannot be 0. (For instance, it is invalid for 0000000001 and is valid for 1000000001 as well.)
 - Message setting: The message will display after the user pass the face recognition by the device.
 - Select card number: Display user card number.
Note :
 1. In case, the user doesn't have card, and it will not display the card number and it cannot update the authorization, so user should have a card.
 2. It's necessary to choose card number again in HAMSFace user's setting when you need to add or delete card again from HAMS system user's setting.
 - Card Swipe Mode: Provide 4 modes for the recognition settings.
 - By Device. The default setting is face or card number.
 - Card
 - Face and Card
 - Face
 - Face or Card
 - Enable administrator and the face will be administrator.

Note: Not all models of devices provide above modes, depending on actual model.
If click on "Sync. ID", the system will automatically update Employee ID in Face recognition number field.
5. If click on "Sync. Name", the system will automatically update Employee name in "Message setting" field.



4.5.3 Web Page Operation - Configure Attendance Status (Shift Name)

Through the web page, the attendance status of the device can be changed to Check In, Check Out, Break In, Break Out, Overtime In and Overtime Out, and set the shift time according to the actual situation.

Enter <https://device IP address> in the browser URL field, enter the login page, input the user name and password, and then click "Login".

Operation Steps:

1. Click "Configuration"→ "Schedule"→ "T&A Status" in the main function bar at the top of the screen to enter the page.
2. Select "T&A Status" to enter the attendance status setting screen.
 - Attendance Mode : Set the T&A mode.
 - Disable: Select "Disabled" mode, the attendance status function is turned off, and the attendance status cannot be checked or selected when the device is in standby.
 - Manual: Select "Manual" mode. When checking attendance, you need to manually select the attendance status.
 - Auto: Select "Auto" mode, the system will automatically change the attendance status according to the set attendance status and the corresponding shift time (no need to manually select the attendance status).
 - Manual and Auto: In "Manual and Auto" mode, the system will automatically change the attendance status according to the set attendance status and the corresponding shift time, and the attendance status can also be selected manually.

The screenshot shows the 'T&A Status' configuration page. The 'Attendance Mode' dropdown menu is open, displaying the following options: Auto, Disable, Manual, Auto, and Manual and Auto. The 'Attendance Status Required' toggle is currently off. The 'Attendance Status' section has three checkboxes: 'Check In/Check Out' (checked), 'Break Out/Break In' (unchecked), and 'Overtime In/Overtime Out' (unchecked). The 'Parameters' section contains two text input fields: 'Customize Check In Name' with the value 'check in' and 'Customize Check Out Name' with the value 'check out'. A red 'Save' button is located at the bottom center.

- Attendance Status Required: Enable to operate the attendance status.
- Attendance Status: When the “Attendance Status” is enabled, you can use the Enable Attendance Status and Customize the Shift Name.
 - Check In /Check Out: If the tick box of Check in/Check out is ticked, the name can be customized.
 - Break Out/Break In: If the tick box of Break Out/Break In is ticked, the name can be customized.
 - Overtime In/Overtime Out: If the tick box of Overtime In/Overtime Out is ticked, the name can be customized.

3. Please click “Save” when the setting is completed.

The screenshot shows the 'T&A Status' configuration page with the 'Attendance Status Required' toggle turned on. The 'Attendance Status' section has three checkboxes: 'Check In/Check Out' (checked), 'Break Out/Break In' (unchecked), and 'Overtime In/Overtime Out' (unchecked). The 'Parameters' section contains two text input fields: 'Customize Check In Name' with the value 'check in' and 'Customize Check Out Name' with the value 'check out'. A red 'Save' button is located at the bottom center.

- Local

System

Network

Video/Audio

Image

Schedule

T&A Status

Intercom

Access Control

Smart

Theme

Live View

User

Search

Configuration

Time Settings

T&A Status

Template

Configuration

Check In/Check Out

Overtime In/ Overtime Out

Break Out/Break In

Status Type

Check

Schedule Name

Check In/Check Out

Time Settings

×

Delete

🗑

Delete All

	0	2	4	6	8	10	12	14	16	18	20	22	24
Mond...													
Tuesd...	0	2	4	6	8	10	12	14	16	18	20	22	24
Wedn...	0	2	4	6	8	10	12	14	16	18	20	22	24
Thurs...	0	2	4	6	8	10	12	14	16	18	20	22	24
Friday	0	2	4	6	8	10	12	14	16	18	20	22	24
Satur...	0	2	4	6	8	10	12	14	16	18	20	22	24
Sunday	0	2	4	6	8	10	12	14	16	18	20	22	24

Save

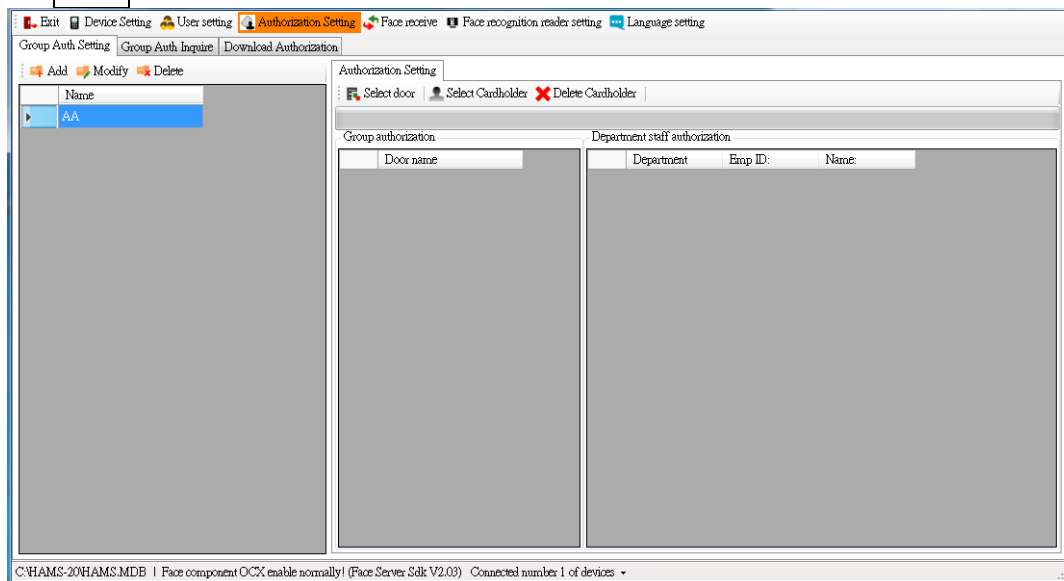
5. Authorization Settings

5.1 Group Authorization Settings

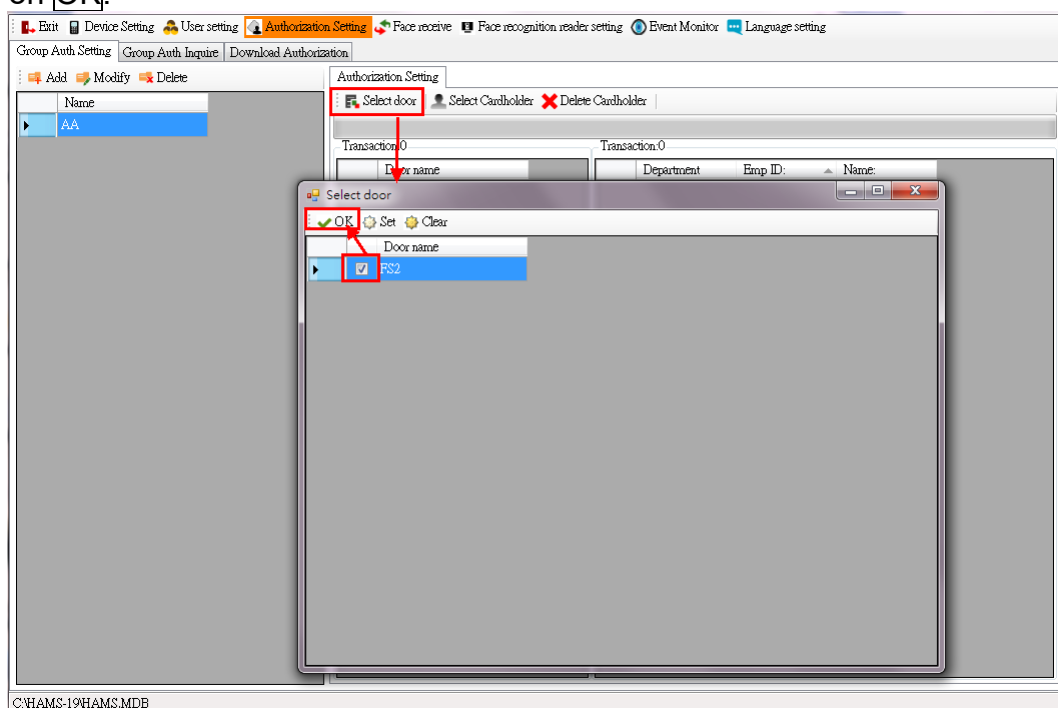
Add employees into the group, which have the same authorizations.

Operation steps:

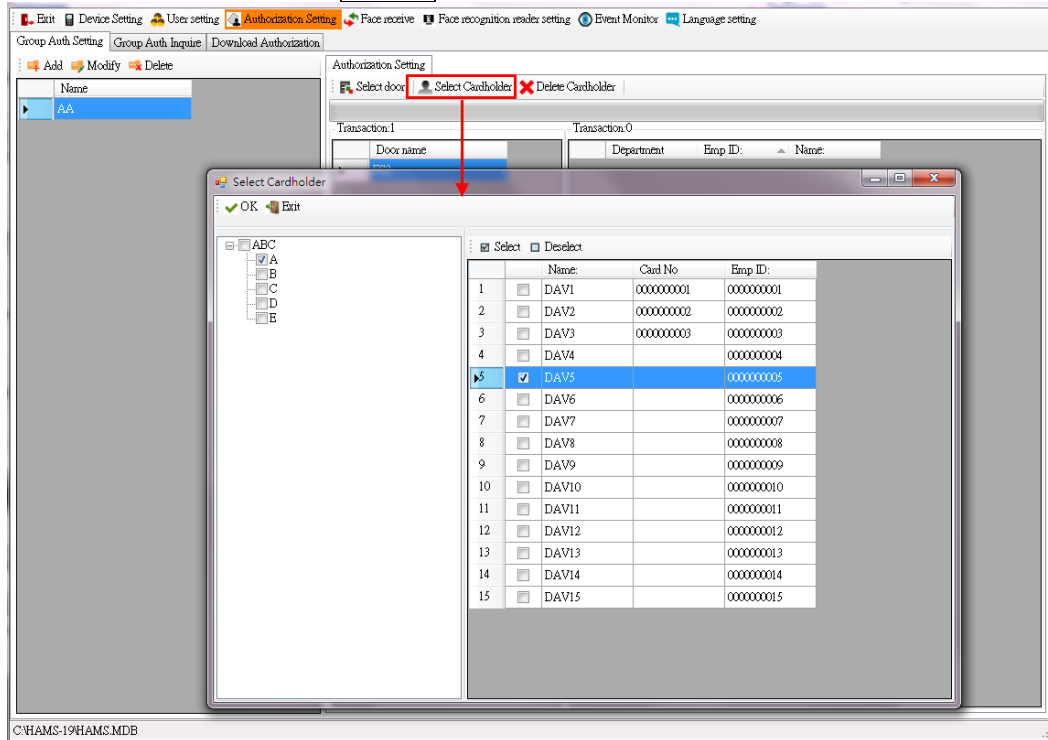
1. Click on **Add**.
2. Input the group name.
3. Click on **Save**.



4. Click **Select door** to select door. Quick selection: Use the Ctrl key + mouse click or the Shift key + mouse to select continuously, and then click on **Set**.
5. Click on **OK**.



6. Click on **Select Cardholder**, and then tick Department checkbox to select the department. The system will list all cardholders of department. Tick the cardholder checkbox to select the cardholder. Quick selection: Use the Ctrl key + mouse click or the Shift key + mouse to select continuously, and then click on **Set**.
7. Click on **OK** to complete the setting. For the cardholder delete, tick the checkbox of cardholder, and then click on **Delete**.



5.2 Group Authorization Inquiry

The user can query the authorization and enter the query condition.

Operation steps:

1. Select the Query conditions by Group (drop-down menu), Door name, Name, User ID, and Department.
2. Click on **Search**.
3. Click on **Delete criteria** to clear the search condition.

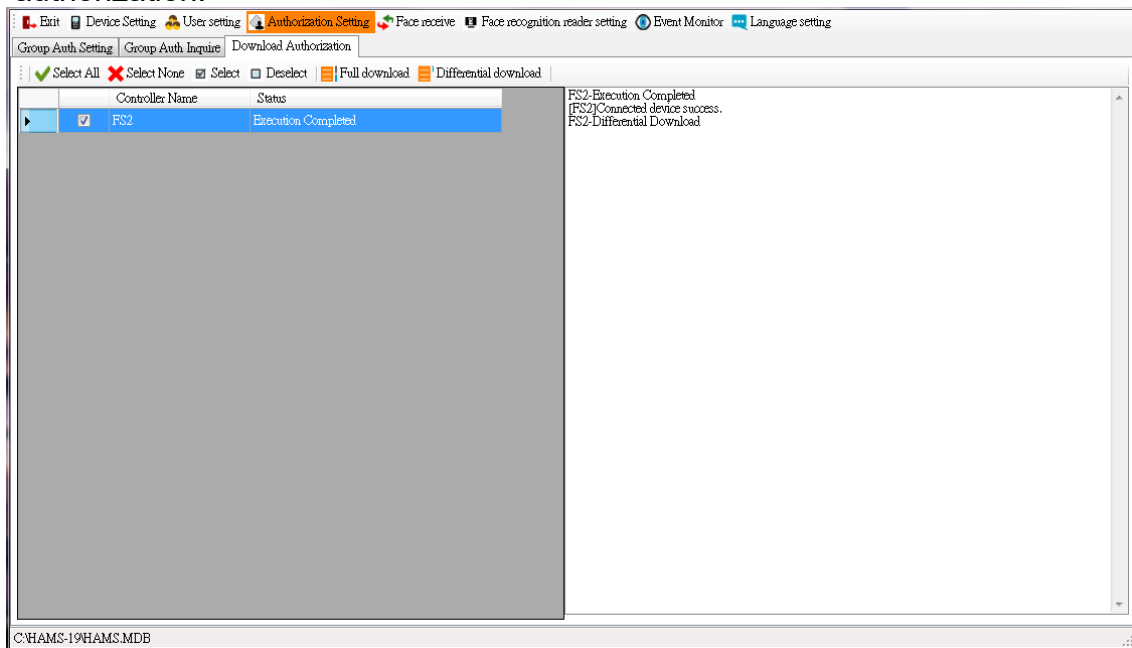
Group	Door name	Name	Employee ID	Department
AA	FS2	DAV1	000000001	A
AA	FS2	DAV2	000000002	A
AA	FS2	DAV3	000000003	A
AA	FS2	DAV4	000000004	A
AA	FS2	DAV5	000000005	A

5.3 DownloadAuthorization

The authorization can be authorized by groups and cardholders.

Operation steps:

1. Tick the Controller Name check box to download the authorizations to controller.
2. Click on **Select All** to download all authorizations of the controller.
3. Select the download modes:
 - Full download: download all cardholders and all authorizations.
 - Differential download: Only download the changes of the cardholder and the authorization.



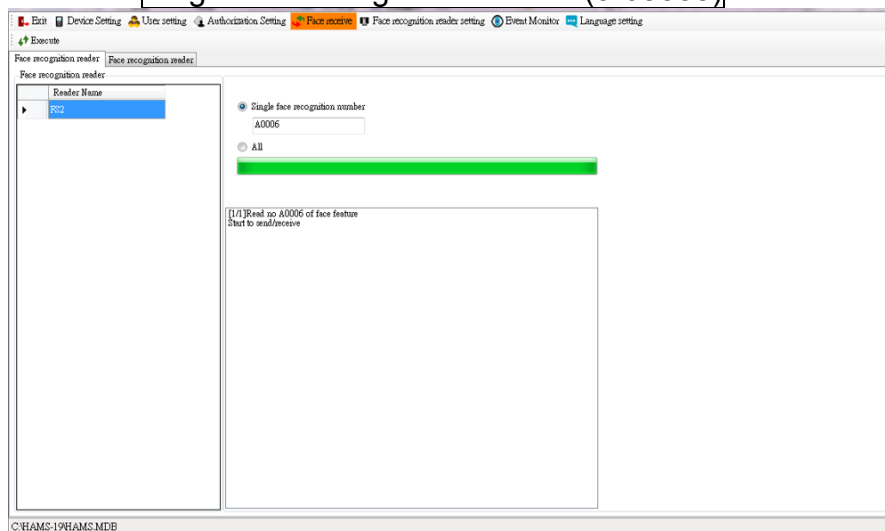
6. Face Receive

The face data is stored in the device, the device is selected and its face features are received back to the system.

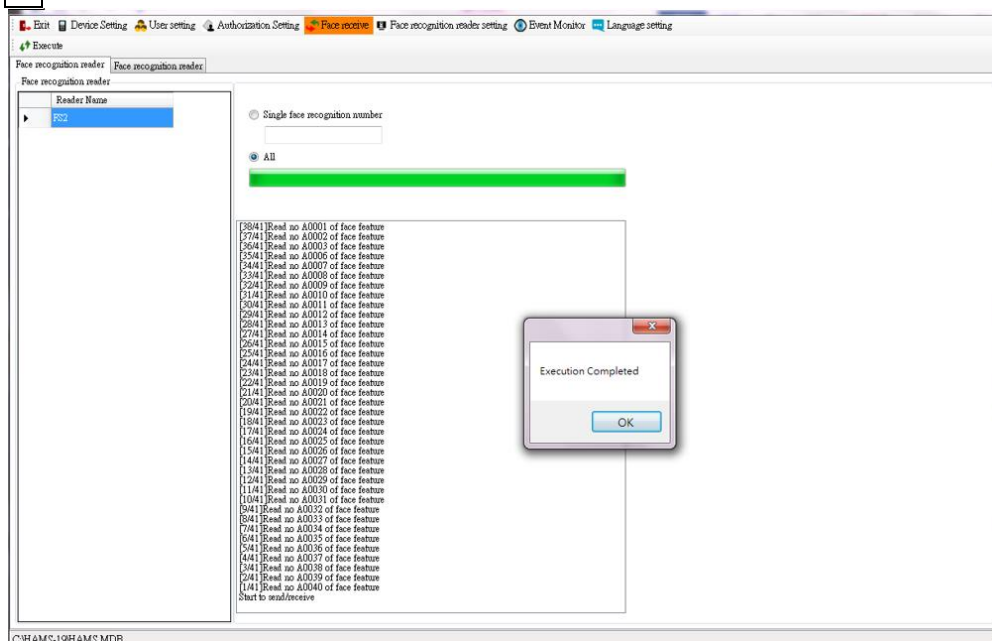
Operation steps:

1. Select the devices:
 - Face reader.
 - Face recognition reader.
2. Select the reader.
3. Select **Single face recognition number**, please enter the number and then click on **Execute**, system will read the number of the face feature.

NOTE: Button will be **Single face recognition number(0-65535)** when choose HTA-HFCM.



4. Select **All** to receive the face features of all cardholders.



7. Face Recognition Reader Setting

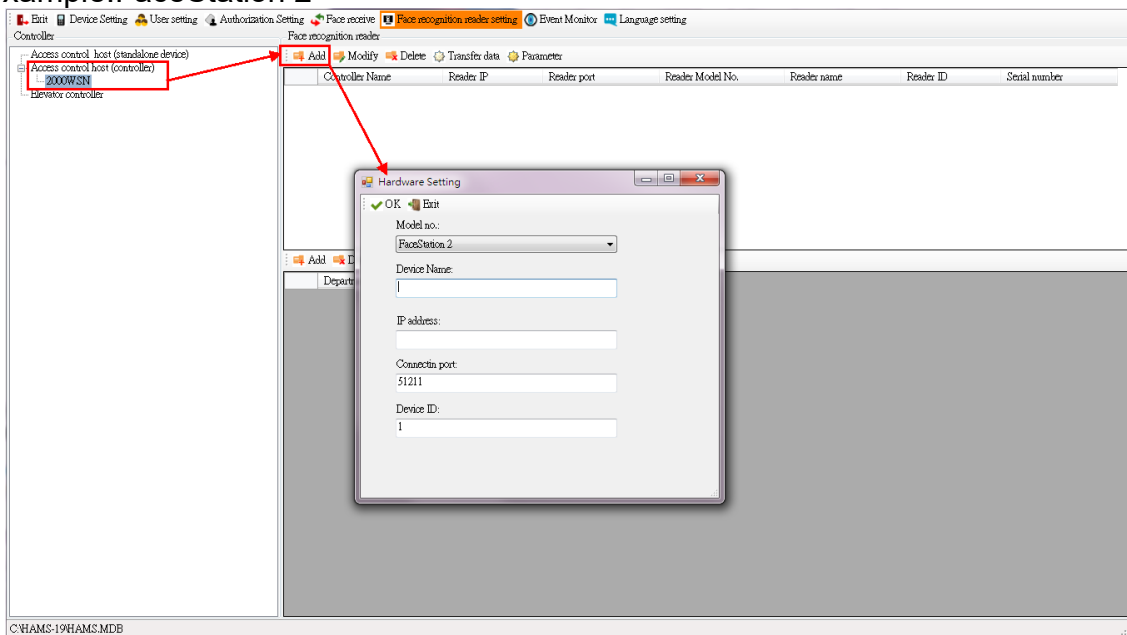
Add a new face recognition reader to Access control host (standalone device).

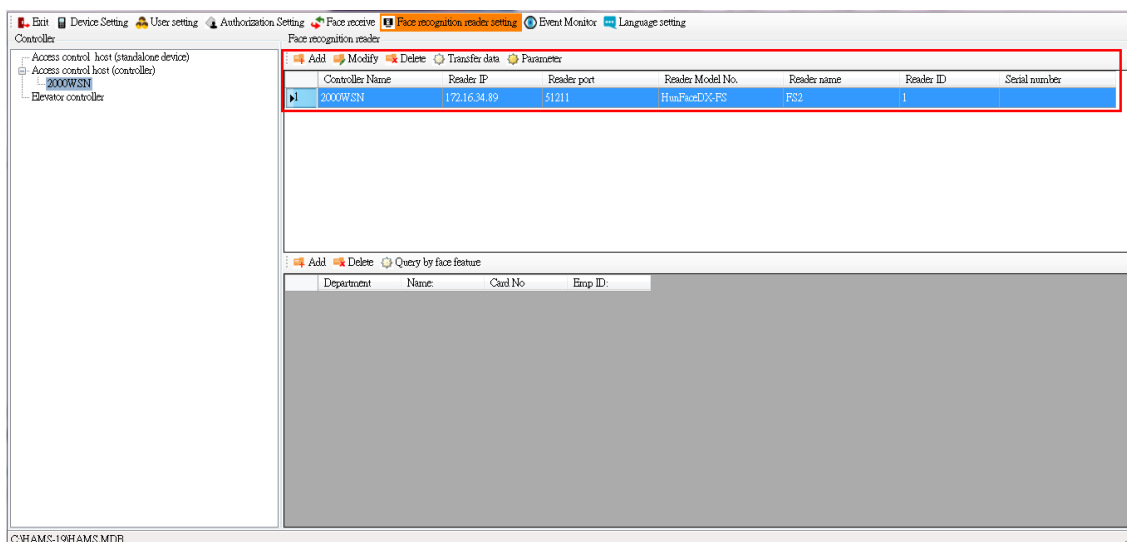
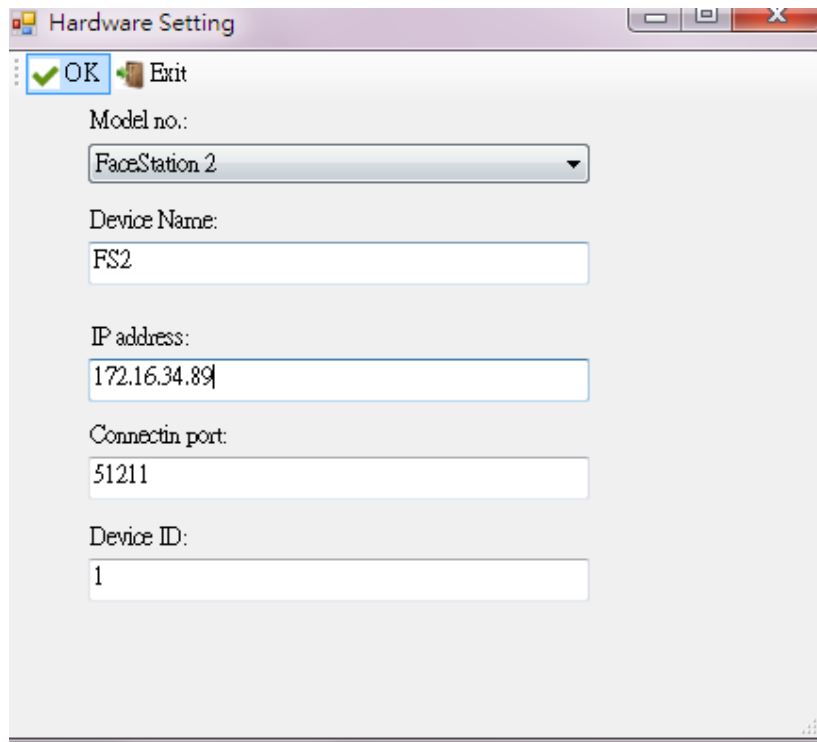
Operation steps:

1. The controller information is shown on the left screen, please select the controller type.
 - Access control host (standalone device).
 - Access control host (controller).
 - Elevator controller.
 - Time Attendance Device (Support the FaceStation 2 (FS2-AWB) only)
2. Select the controller, and then click on **Add** from Face recognition reader page.
3. Enter the Hardware Setting screen. Select the Model no. and input Device name, IP address etc. (Please refer to Reader Setting)

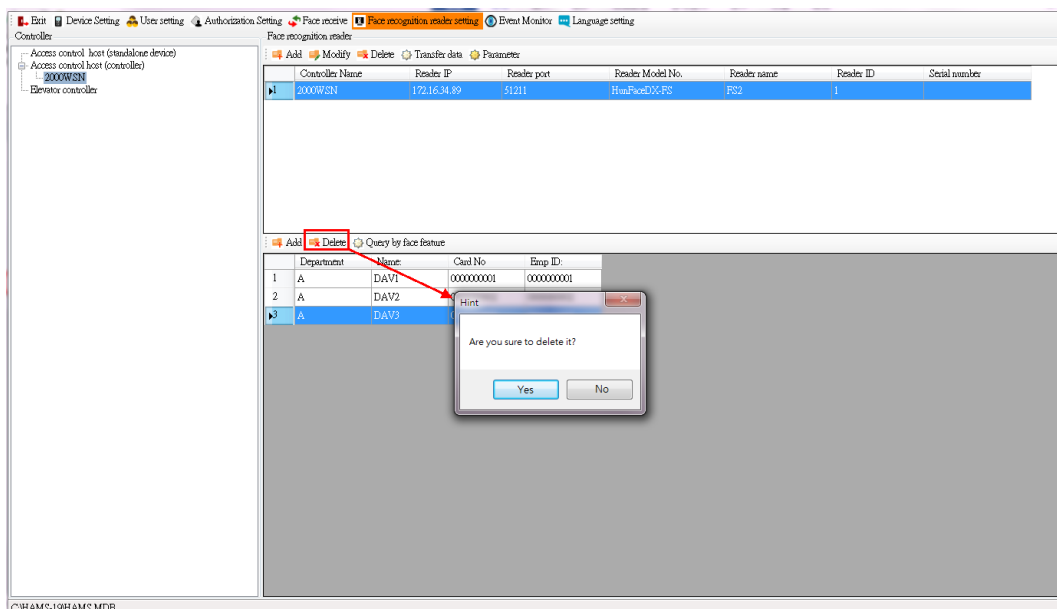
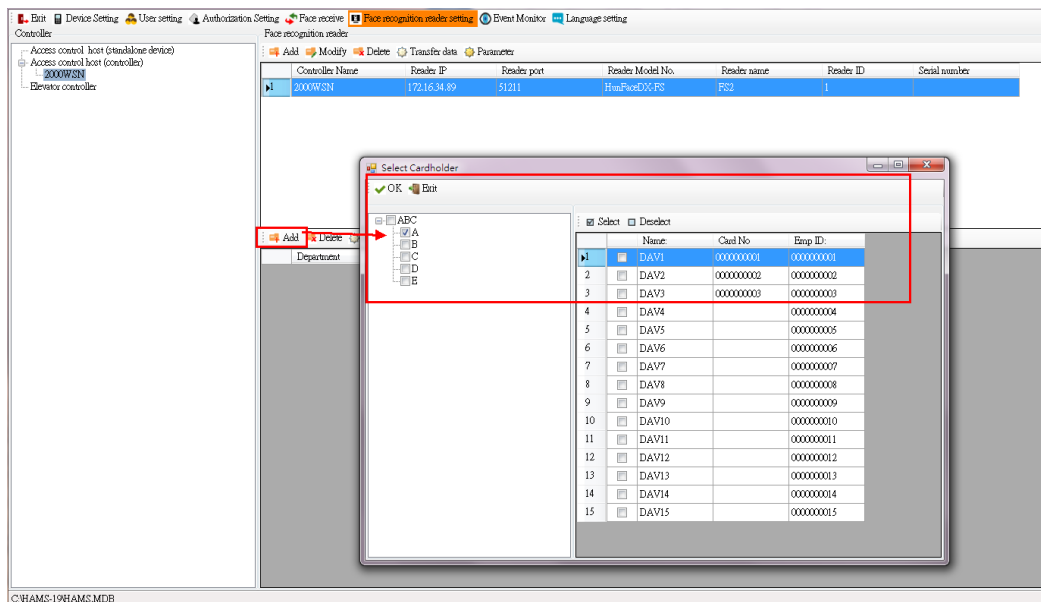
Notice : The module number only choose one type when set up the facial reader. (It depends on facial recognition device type.)

For example:FaceStation 2

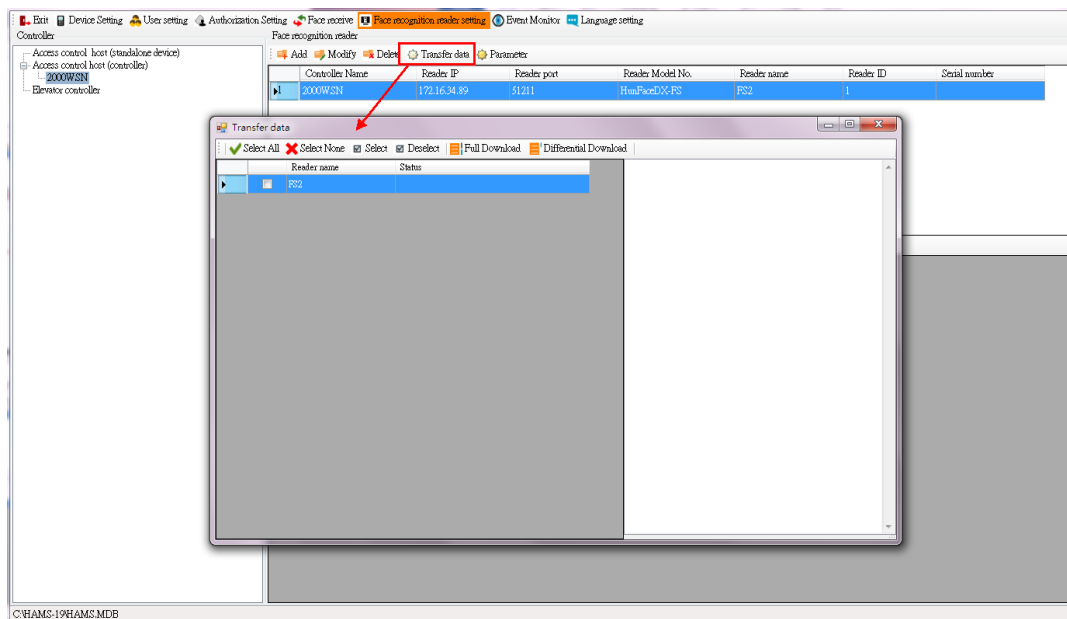




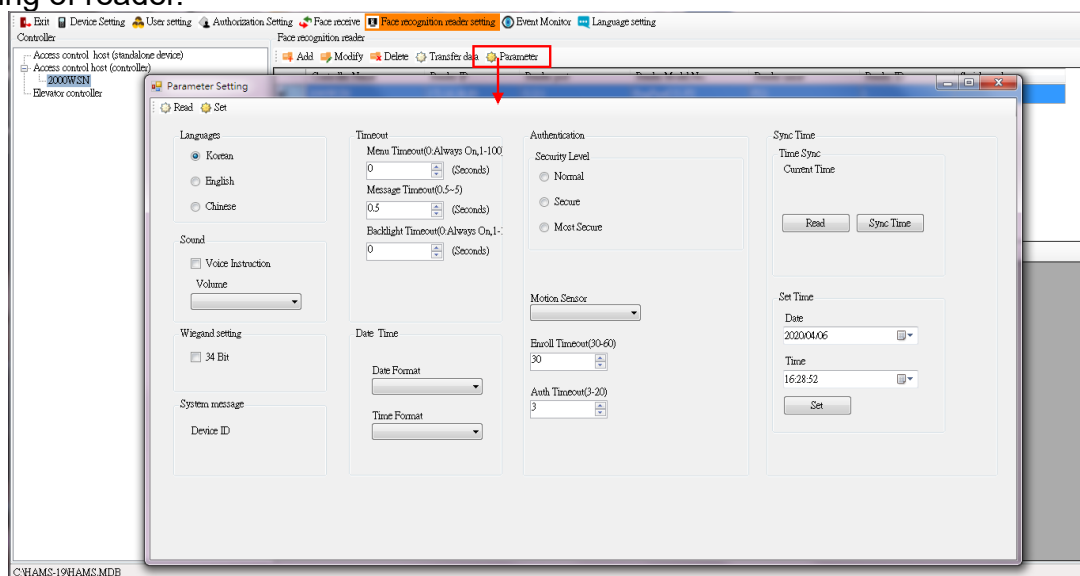
4. Click on **Modify** to modify Face recognition reader setting. When clicking on **Delete**, the reader will be deleted.
5. To increase the cardholder's authorization, please click on **Add** on the screen below. The system will display all cardholders of this department, and then tick the cardholder to add the authorization. To delete the cardholder, tick the cardholder from the screen below, and then click on **Delete** to delete the cardholder.



6. After completing the setting, click on **Transfer data**, and then tick the reader name to download the authorizations to device. Also, you can click on **Select All** to download all authorizations to all readers. Or you can select a reader download the authorization. You can select **Full Download** or **Differential Download** to download data.



7. Click on **Query by face feature** to check if the cardholders' authorizations in the device have been set. If the query is successful, it indicates the cardholders' authorizations have been downloaded successfully.
8. Choose **Parameter setting**, and it will display the parameter of reader. (It can refer to the setting of reader.

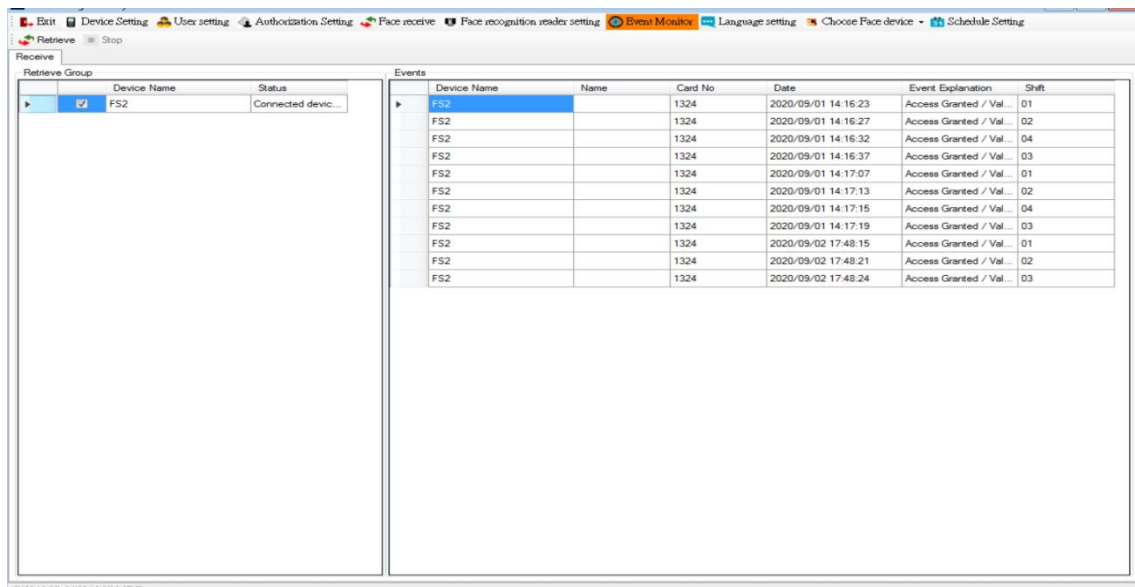


8. Event Monitor

To transfer the word file into database from the face reconization reader received program.

Steps :

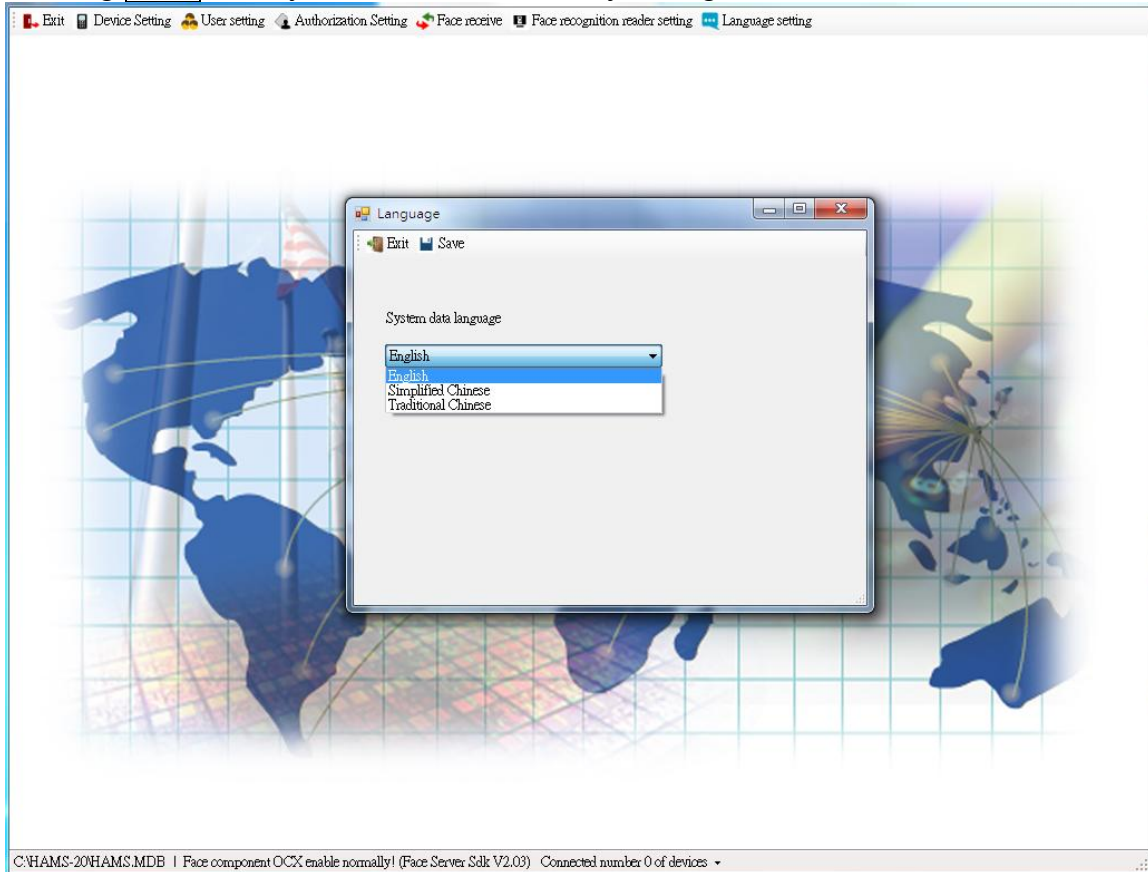
1. Enable the devices which you are looking for from the received group.
2. Press “Start receive” and it will start to receive the recor of card tap.
3. It must press “Stop” to quit the function when you want to quit.
4. It will show number in Shift if you set up the duty shift, when FaceStation 2 (FS2-AWB) retrieve card evnet. There are 4 situation which includes Number 01 is In:Duty On; Number 02 is Out:Duty Off; 03 is Out Duty; 04 is In Duty.



9. Language Setting

The system can change the language and use the drop-down menu to select the system data language. Currently, Traditional Chinese, Simplified Chinese, and English can be selected.

After clicking **Save**, the system will automatically change.



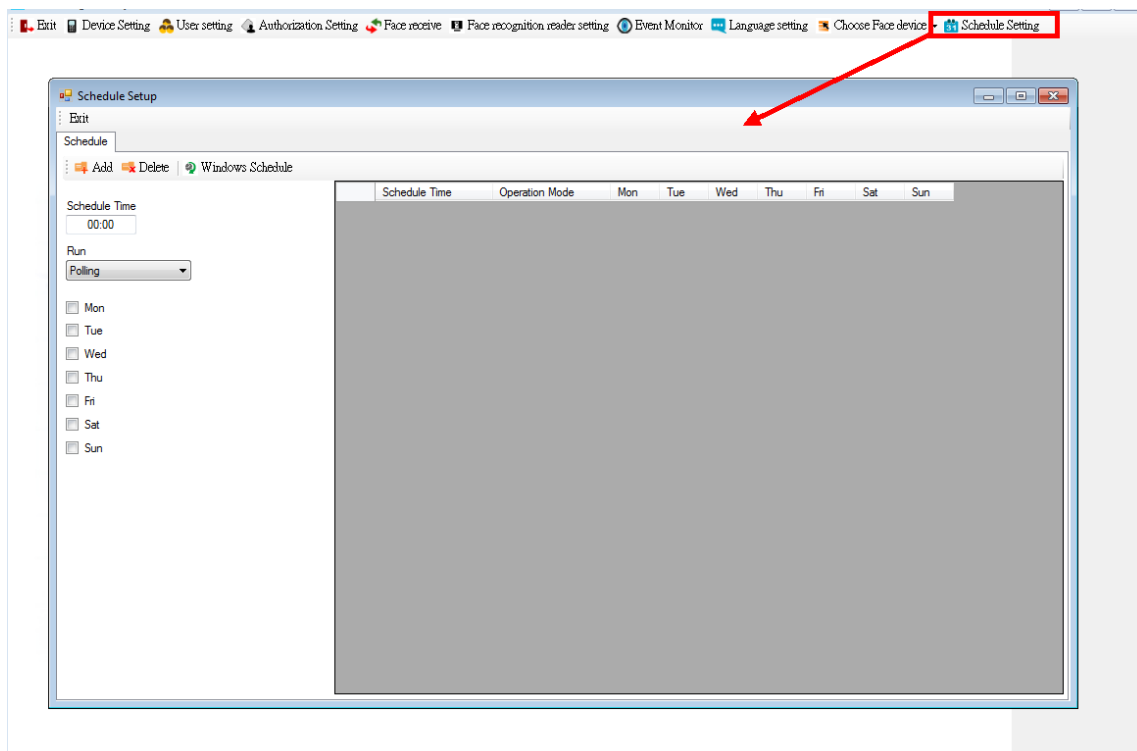
10.Schedule Setting

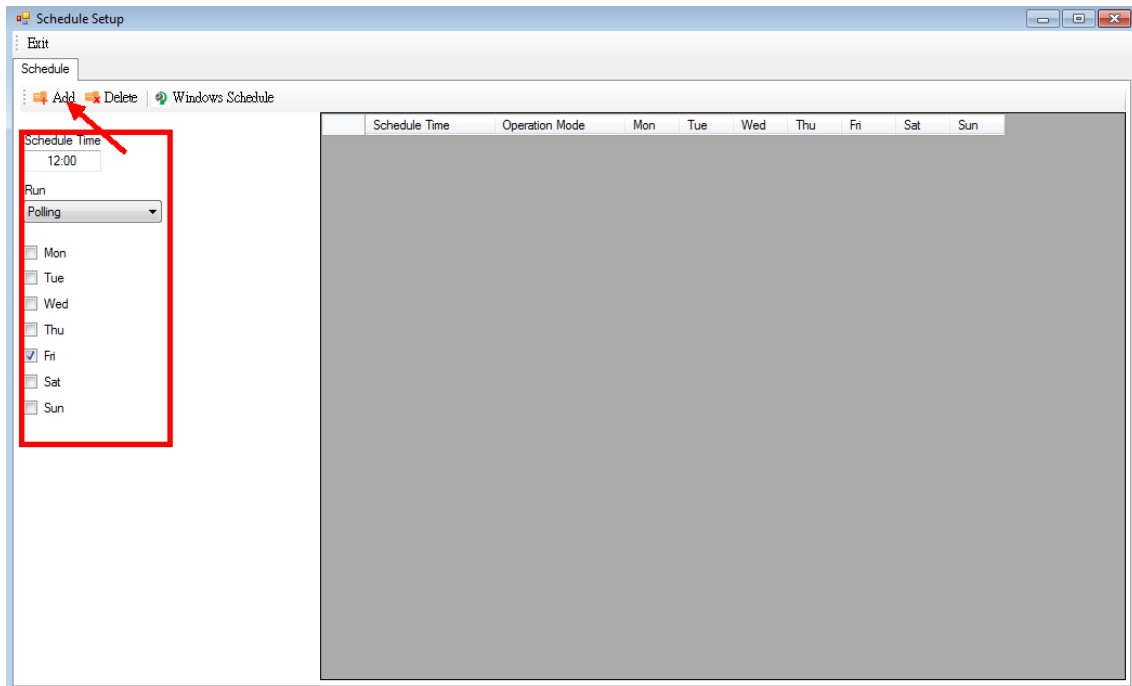
To set up the time to excute motivation of data retrieve in FaceStation 2 (FS2-AWB) /HunFaceEY-ZH/HunFaceEY-ZH)).

Notice: Running schedule will start the program, so please don't start the program again so as not to make program conflict.

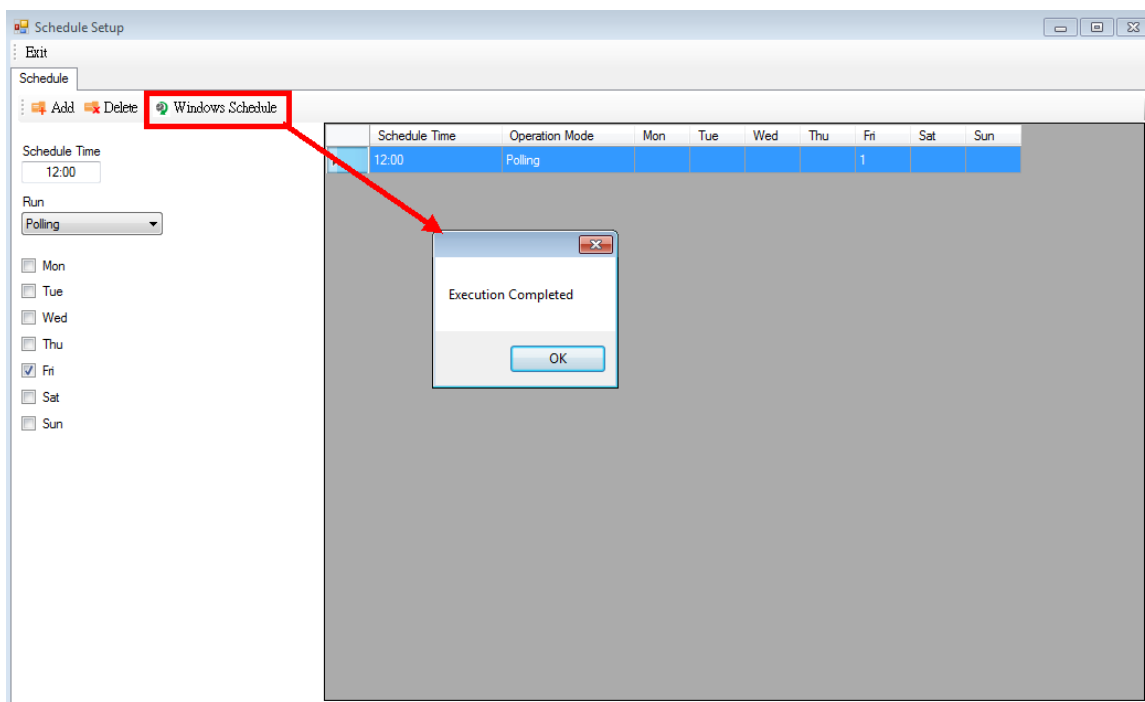
Operation steps:

1. Fill in time to the schedule.
2. Choose operateion→Polling °
3. Check the day (Monday to Friday) you would like to execute.
4. Press **Add.**

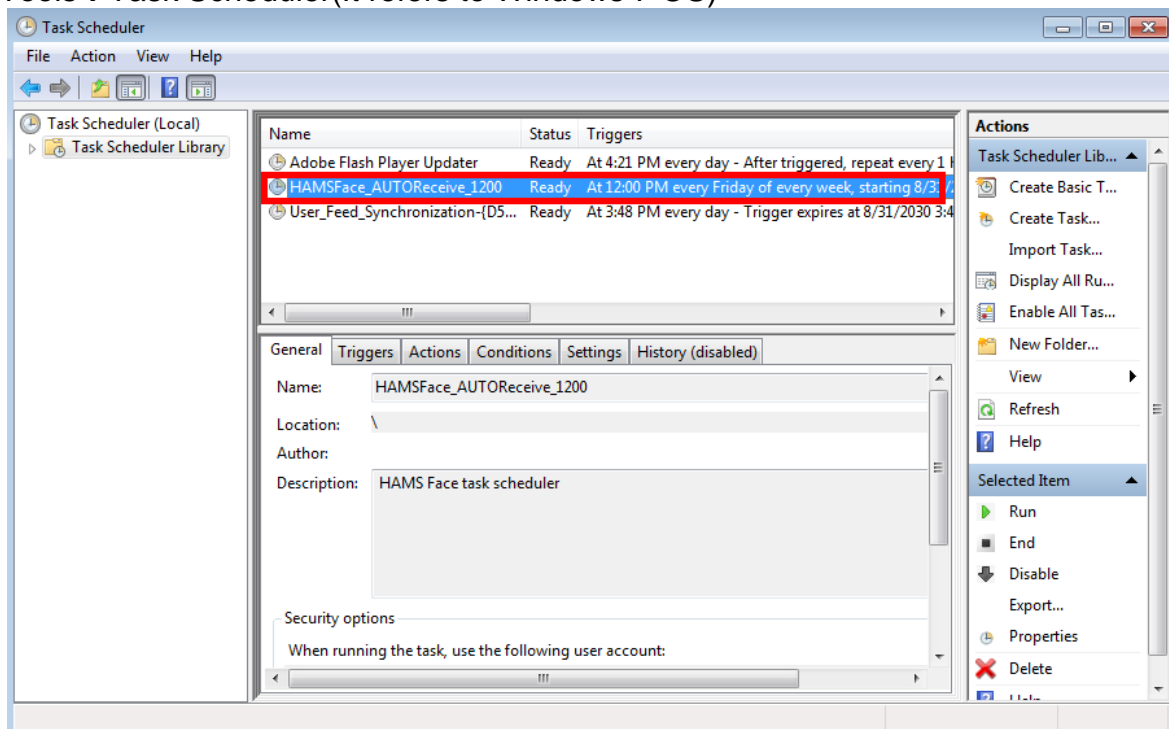




5. Please check all schedule which add into Windows schedule. The setting is finished when press Windows Schedule.
(If you can not add all at once, please add schedule one by one.)



6. You can check schedule form your PC. Start→Control Panel →Administrative Tools→Task Scheduler(It refers to Windows 7 OS)



7. The schedule will be executed by Windows Schedule. (It will need to close HAMS software.)

ONE YEAR LIMITED WARRANTY

This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence or modification of any part of the product. This warranty does not cover damage due to improper operation or maintenance, connection to improper equipment, or attempted repair by anyone other than an authorized professional technician.

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