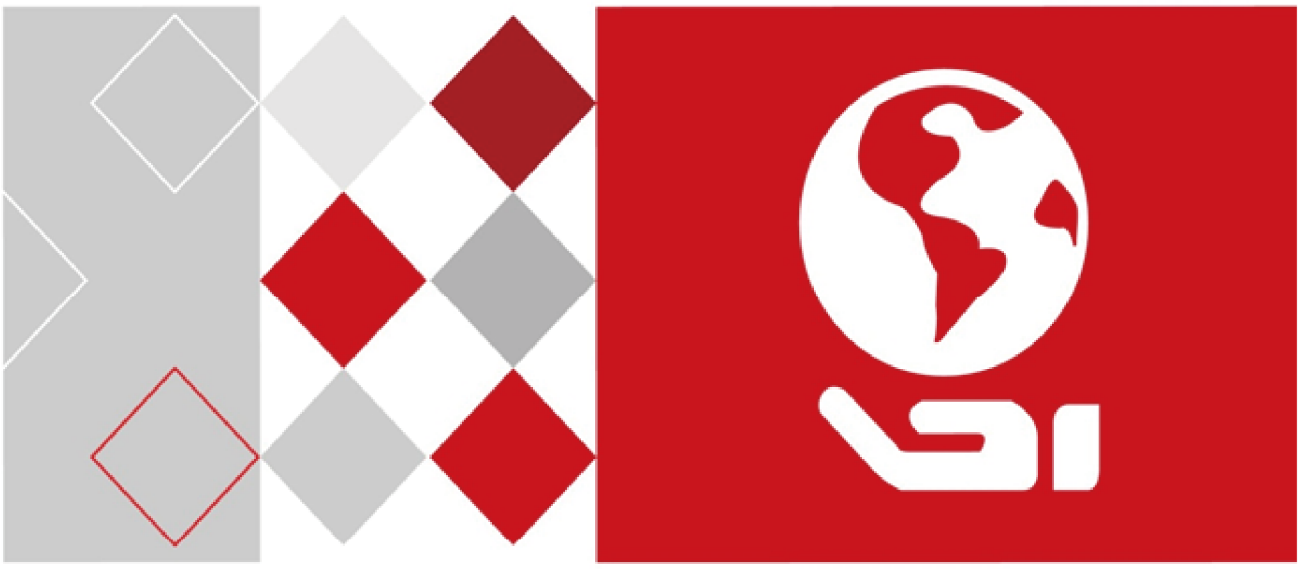


DS-K2600 Series Access Controller

Quick Setup Guide

Ness V1.0

This is a Quick Setup Guide for Ness Version of Hikvision DS-K2604 4 Door Access Controllers.

For full details refer Ness Full User Manual

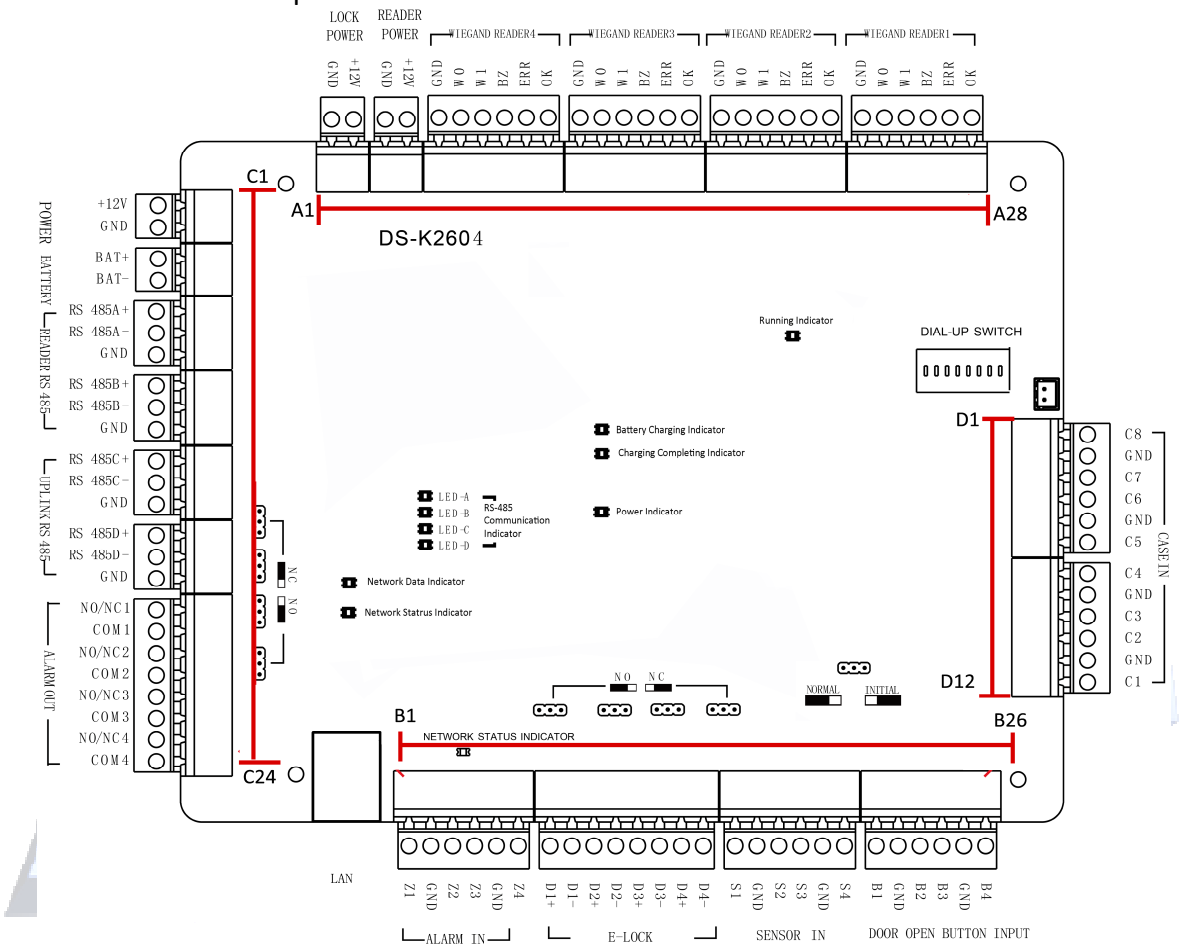
Safety Instruction

WARNING

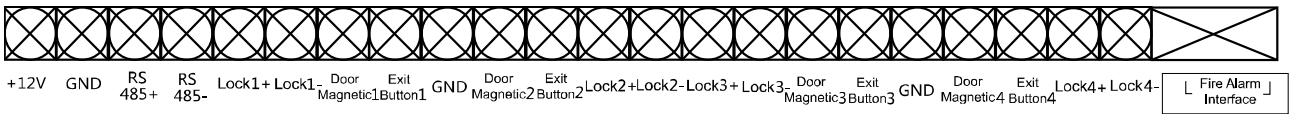
Please note: There is high voltage (240VAC) inside the housing of the controller. Extreme caution should be taken and only installed and serviced by licensed trained installers.

Table of Contents

DS-K2604 Terminal Description



DS-K2604 External Terminals



DS-K2604 Terminal descriptions are as follows:

No.	DS-K2604		
A1	Power Supply of E-Lock	GND	Grounding
A2		+12V	Power Supply of E-Lock Output
A3	Power Supply of Card Reader	GND	Grounding
A4		+12V	Power Supply of Card Reader Output
A5	Wiegand Card Reader 4	GND	Grounding
A6		W0	Wiegand Card Reader Data Input Data0
A7		W1	Wiegand Card Reader Data Input Data1
A8		BZ	Buzzer of Card Reader Control Output

No.	DS-K2604		
A9		ERR	Cresset of Card Reader Control Output (Invalid Card Output)
A10		OK	Cresset of Card Reader Control Output (Valid Card Output)
A11	Wiegand Card Reader 3	GND	Grounding
A12		W0	Wiegand Card Reader Data Input Data0
A13		W1	Wiegand Card Reader Data Input Data1
A14		BZ	Buzzer of Card Reader Control Output
A15		ERR	Cresset of Card Reader Control Output (Invalid Card Output)
A16		OK	Cresset of Card Reader Control Output (Valid Card Output)
A17	Wiegand Card Reader 2	GND	Grounding
A18		W0	Wiegand Card Reader Data Input Data0
A19		W1	Wiegand Card Reader Data Input Data1
A20		BZ	Buzzer of Card Reader Control Output
A21		ERR	Cresset of Card Reader Control Output (Invalid Card Output)
A22		OK	Cresset of Card Reader Control Output (Valid Card Output)
A23	Wiegand Card Reader 1	GND	Grounding
A24		W0	Wiegand Card Reader Data Input Data0
A25		W1	Wiegand Card Reader Data Input Data1
A26		BZ	Buzzer of Card Reader Control Output
A27		ERR	Cresset of Card Reader Control Output (Invalid Card Output)
A28		OK	Cresset of Card Reader Control Output (Valid Card Output)
B1	Arming Region Input	Z1	Arming Region Access Terminal 1 (Only for Linkage of Alarm Relay Output)
B2		GND	Grounding
B3		Z2	Arming Region Access Terminal 2 (Only for Linkage of Alarm Relay Output)
B4		Z3	Arming Region Access Terminal 3 (Only for Linkage of Alarm Relay Output)
B5		GND	Grounding
B6		Z4	Arming Region Access Terminal 4 (Only for Linkage of Alarm Relay Output)
B7	E-Lock 1	D1+	Door 1 Door Relay Input (Dry Contact)
B8		D1-	
B9	E-Lock 2	D2+	Door 2 Door Relay Input (Dry Contact)
B10		D2-	

No.	DS-K2604		
B11	E-Lock 3	D3+	Door 3 Door Relay Input (Dry Contact)
B12		D3-	
B13	E-Lock 4	D4+	Door 4 Door Relay Input (Dry Contact)
B14		D4-	
B15	Door Magnetics Input	S1	Door 1 Magnetic Detector Input
B16		GND	Signal Grounding
B17		S2	Door 2 Magnetic Detector Input
B18		S3	Door 3 Magnetic Detector Input
B19		GND	Signal Grounding
B20		S4	Door 4 Magnetic Detector Input
B21	Door Button	B1	Door 1 Door Button Input
B22		GND	Signal Grounding
B23		B2	Door 2 Door Button Input
B24		B3	Door 3 Door Button Input
B25		GND	Signal Grounding
B26		B4	Door 4 Door Button Input
C1	Power	+12V	DC12V Cathode
C2		GND	Grounding
C3	Battery	BAT+	DC12V Battery Cathode
C4		BAT-	DC12V Battery Anode
C5	Card Reader RS485	RS 485A+	Card Reader RS485A+
C6		RS 485A-	Card Reader RS485A-
C7		GND	Grounding
C8		RS 485B+	Card Reader RS485B+
C9		RS 485B-	Card Reader RS485B-
C10		GND	Grounding
C11	Access Controller RS485	RS 485C+	Uplink RS485+Communication
C12		RS 485C-	Uplink RS485-Communication
C13		GND	Grounding
C14		RS 485D+	Reserved
C15		RS 485D-	
C16		GND	
C17	Alarm Output	NO/NC1	Alarm Relay 1 Output (Dry Contact)
C18		COM1	
C19		NO/NC2	Alarm Relay 2 Output (Dry Contact)
C20		COM2	
C21		NO/NC3	Alarm Relay 3 Output (Dry Contact)
C22		COM3	
C23		NO/NC4	Alarm Relay 4 Output (Dry Contact)
C24		COM4	
D1	Event Input	C8	Event Alarm Input 8
D2		GND	Grounding
D3		C7	Event Alarm Input 7

No.	DS-K2604		
D4		C6	Event Alarm Input 6
D5		GND	Grounding
D6		C5	Event Alarm Input 5
D7		C4	Event Alarm Input 4
D8		GND	Grounding
D9		C3	Event Alarm Input3
D10		C2	Event Alarm Input 2
D11		GND	Grounding
D12		C1	Event Alarm Input 1

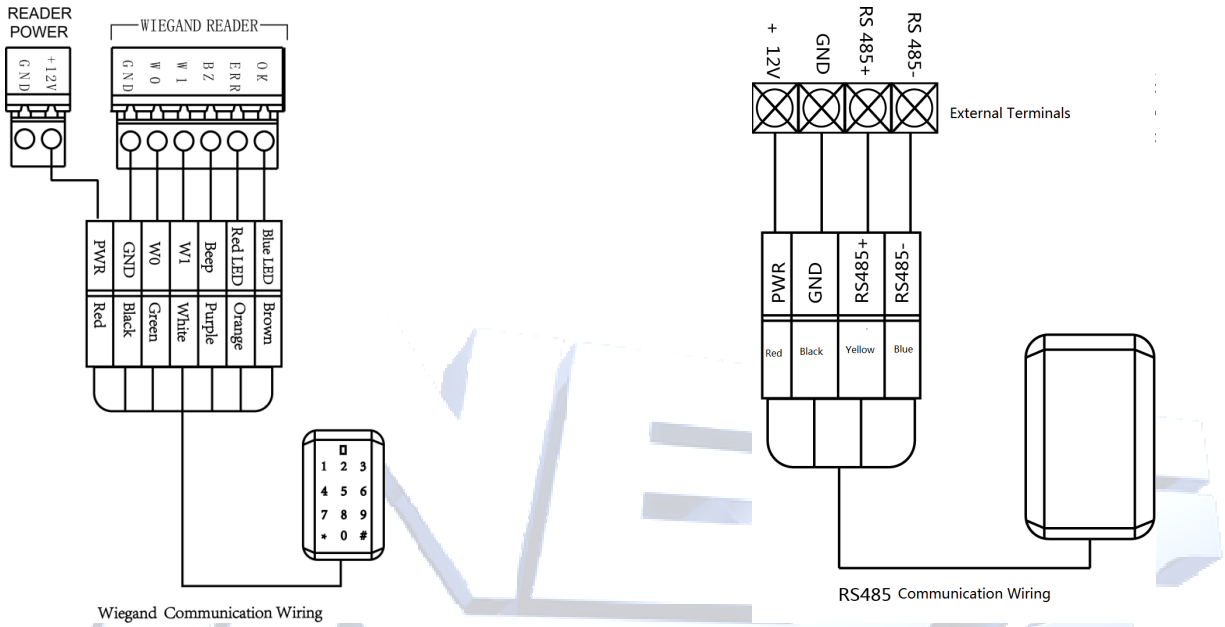
Notes:

- The Alarm input hardware interface is normally open by default. So only the normally open signal is allowed. It can be linked to the buzzer of the card reader and access controller, and the alarm relay output and open door relay output.
- RS485 card ID should be set as 1 to 8. For example, the ID of door 1 is 1 and 2 standing for in and out respectively.
- For single-door access controller, the Wiegand card reader 1 and 2 respectively correspond to the entering and exiting card readers of door 1.

CORPORATION

Card Reader Installation

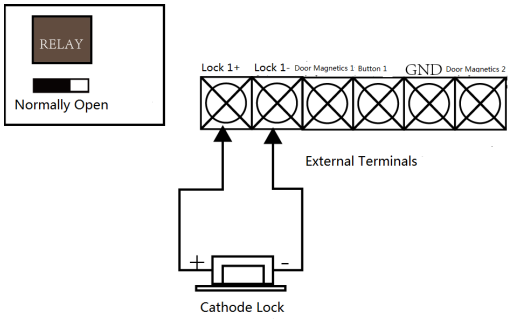
The Connection of Wiegand Card Reader



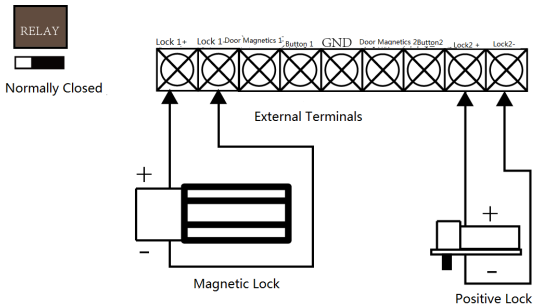
Note: Minimal wiring required is 4 Wire (+12VDC, Gnd, W0 and W1)
Optionally you may connect the OK/ERR/BZ, for when wanting to control the LED and buzzer of the Wiegand card reader.

Recommended wiring method is RS485 instead of Wiegand.

Installing E-Lock



Installation of Fail Secure / Power to Unlock.



Installation of Fail Safe / Power to Lock.

Set the link under the Lock relay to suit lock.

Activating the Access Control Terminal

Purpose:

You are required to activate the terminal first before using it.

Activation via SADP, and Activation via client software are supported.

The default values of the control terminal are as follows.

- The default IP address: 192.0.0.64.
- The default port No.: 8000.
- The default user name: admin.

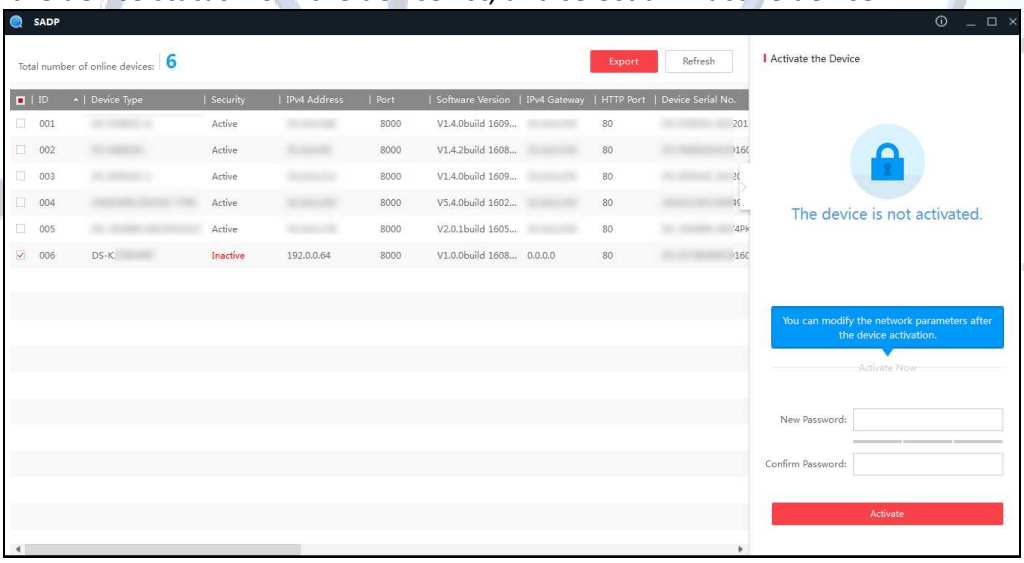
Activating via SADP Software

SADP software is used for detecting the online device, activating the device, and resetting the password.

Get the SADP software from the supplied disk or the official website, and install the SADP according to the prompts. Follow the steps to activate the control panel.

Steps:

1. Run the SADP software to search the online devices.
2. Check the device status from the device list, and select an inactive device.



3. Create a password and input the password in the password field, and confirm the password.

STRONG PASSWORD RECOMMENDED– *We highly recommend you create a strong password of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.*

4. Click **Activate** to activate the device.
5. Check the activated device. You can change the device IP address to the same network segment with your computer by either modifying the IP address manually or checking the checkbox of Enable DHCP.
6. Input the password and click the **Modify** button to activate your IP address modification.

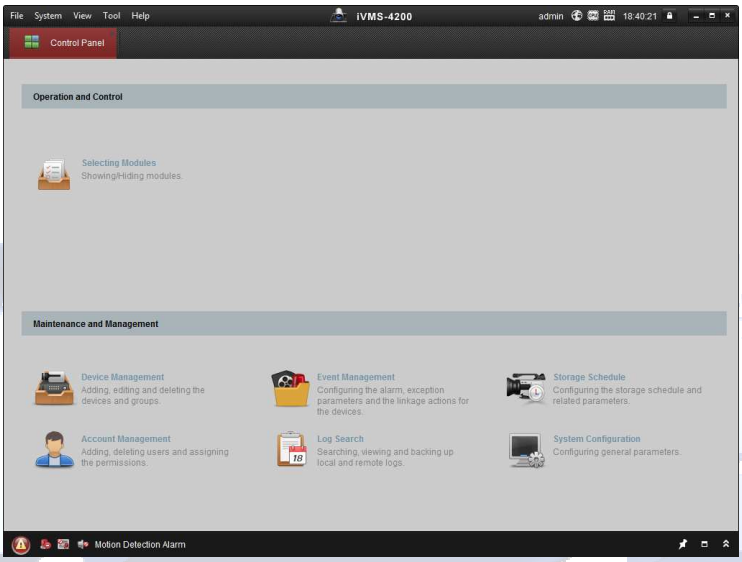
Client Operation

You can set and operate the access control devices via the client software. This chapter will introduce the access control device related operations in the client software. For integrated operations, refer to *User Manual of iVMS-4200 Client Software*.

We recommend using iVMS4200 Version V2.7.1.4 Build 20180403 (or later)

Function Module

Control Panel of iVMS-4200:



For the first time running the software, you can click on the **Control Panel** to select the modules to display on the Operation and Control area of the control panel.

Select the required module, including 'Access Control' and 'Status Monitor' options.

Note:

The first time opening the Access Control module, you will be promoted if the system is 'Non-Residence' or 'Residence' application.

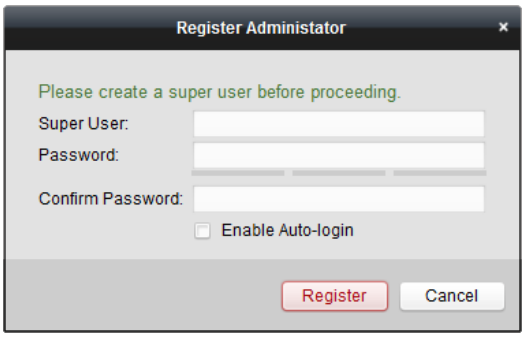
The only difference is if you choose 'Residence' application you cannot use Time & Attendance options at a later date.

We recommend selecting "Non-Residence"

Once selected you CANNOT change at a later date.!

User Registration and Login

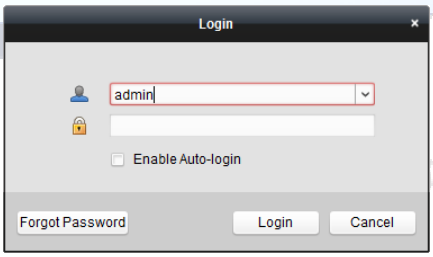
For the first time to use iVMS-4200 client software, you need to register a new super user for login.



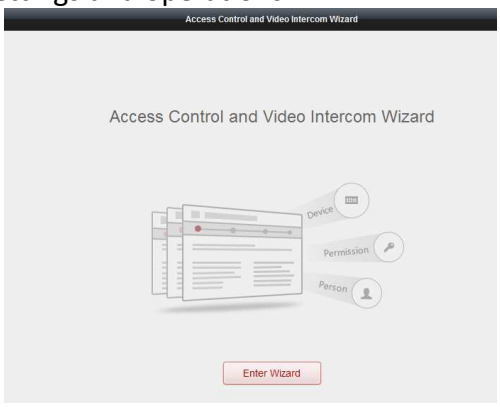
When opening iVMS-4200 after registration, you can log into the client software with the registered user name and password.

Steps:

1. Input the user name and password you registered.
   Note: If you forget your password, please click **Forgot Password** and remember the encrypted string in the pop-up window. Contact your dealer and send the encrypted string to him to reset your password.
2. Optionally, check the checkbox **Enable Auto-login** to log into the software automatically.
3. Click **Login**.



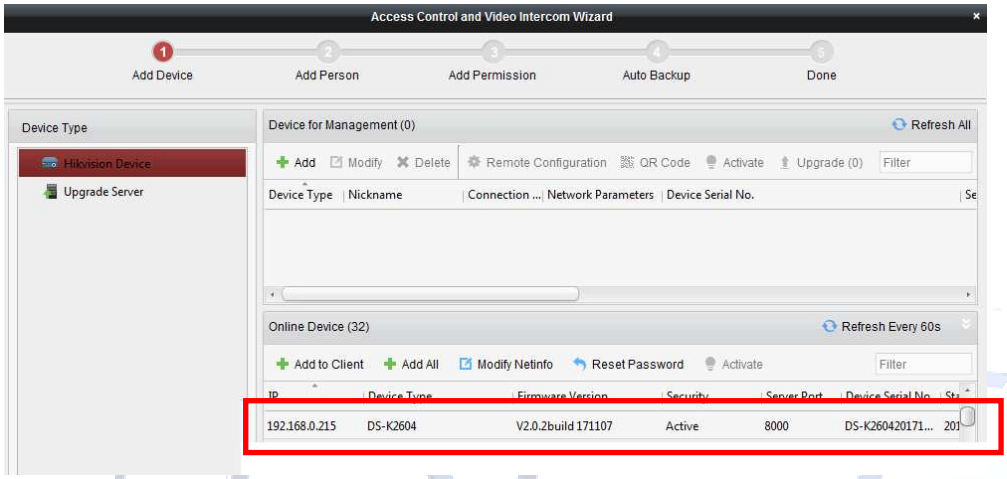
After running the client software, (Or at any time by clicking on 'Help' / Open Access Control and Video Intercom Wizard") you can open the wizards (including access control and video intercom wizard), to guide you to add the device and do other settings and operations.



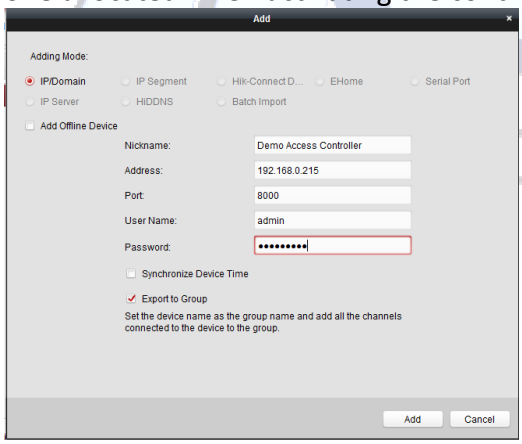
Access Control Wizard.

Step 1. Adding the 'Access Controller' online into iVMS4200

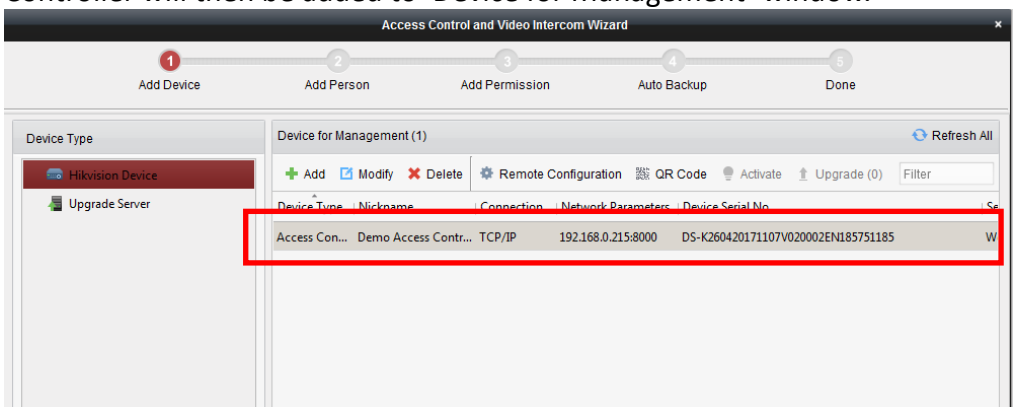
Ensure the Access controller is 'Activated' via SADP tool (or via iVMS4200)
From the 'Online Device' window select the controller and then click on 'Add to Client'



Give it a name (e.g. Controller on 2nd Floor) then add the username and password (password is the one allocated when activating the controller) and click add.



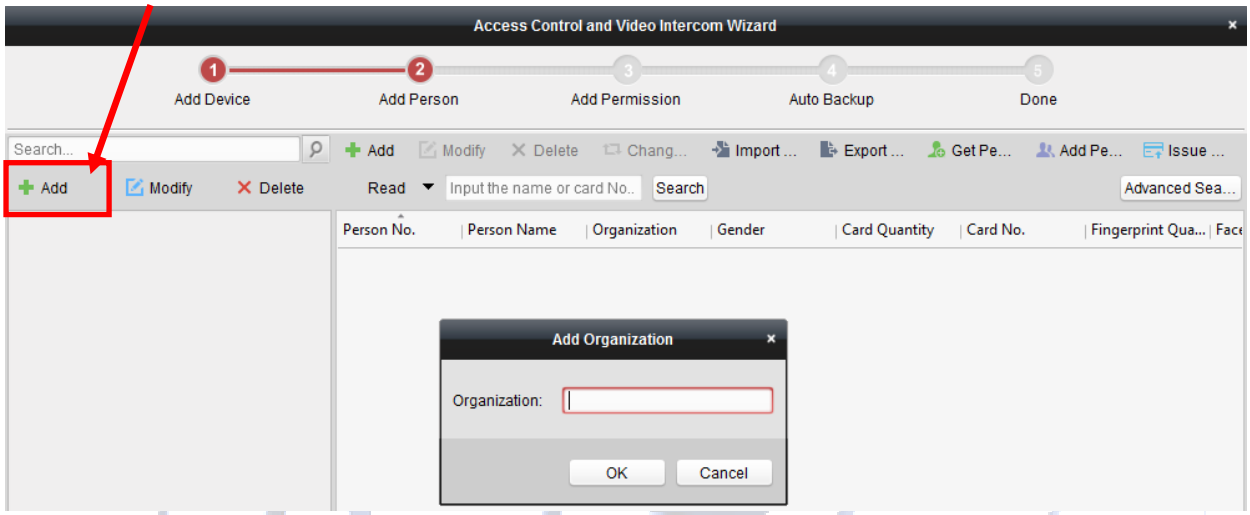
Controller will then be added to 'Device for Management' window.



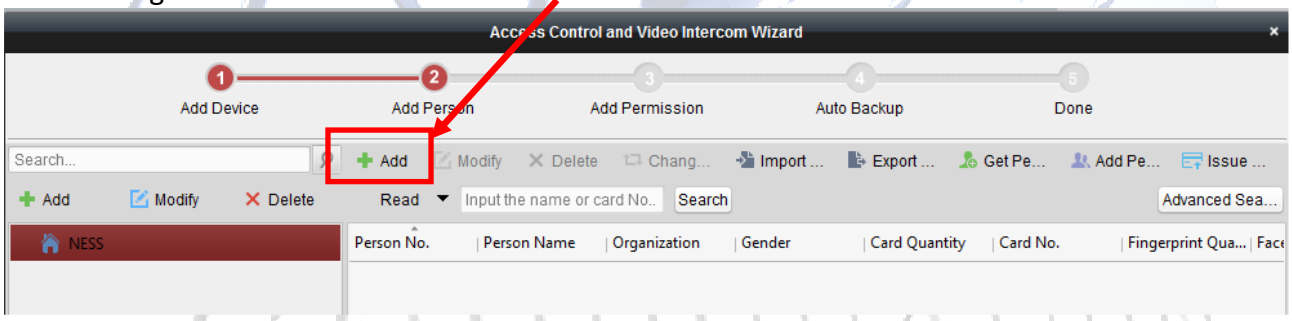
Then click 'Next'

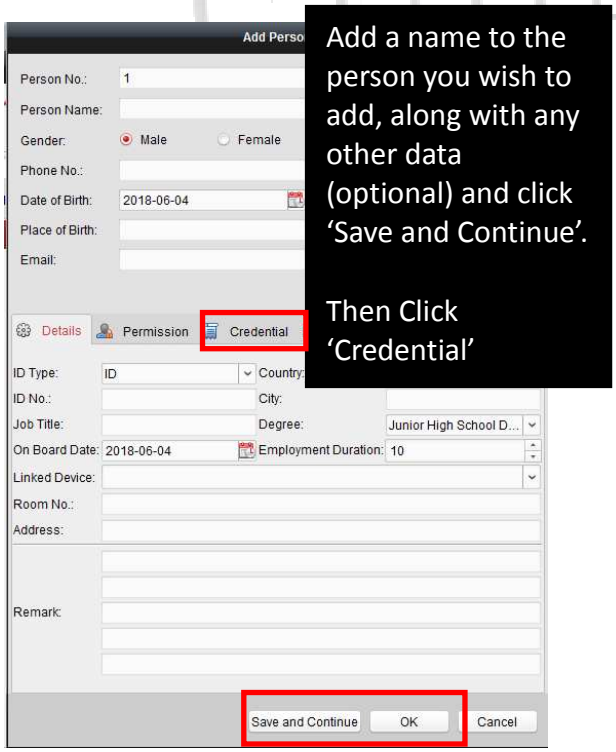
Step 2. Adding a person / User / Card

First step is to add a 'group' organisation for the user(s)
Click on Add on the far left of screen.



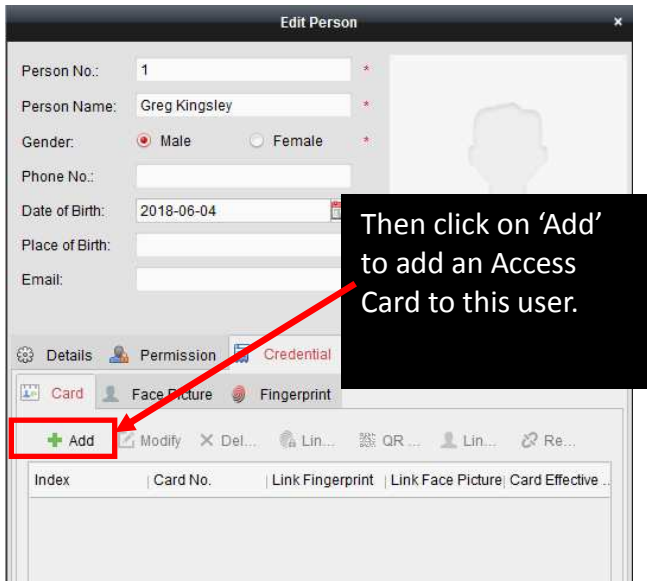
Once an Organisation is added click on 'Add' Person to add a card holder



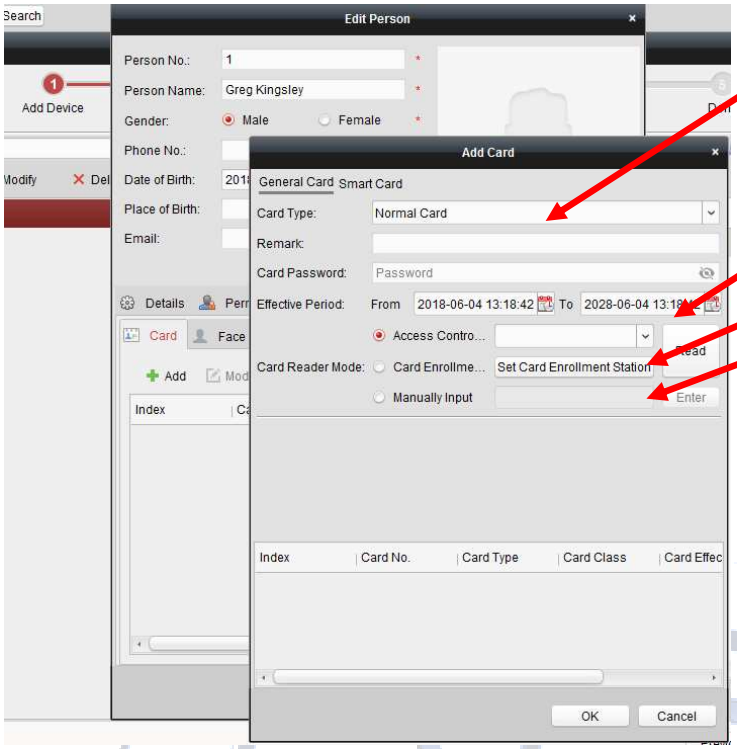


Add a name to the person you wish to add, along with any other data (optional) and click 'Save and Continue'.

Then Click 'Credential'



Then click on 'Add' to add an Access Card to this user.



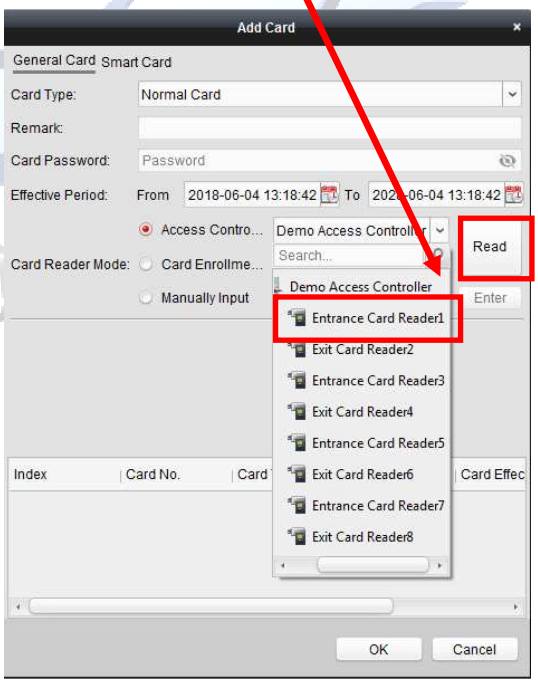
Select Card Type = Normal

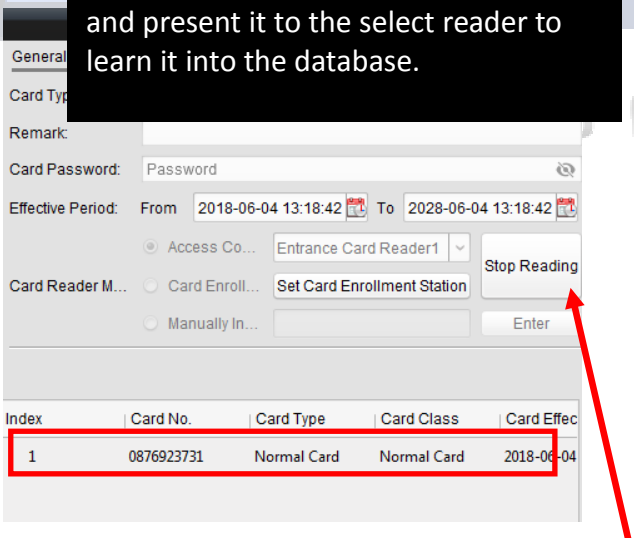
To add a card for this person it can be added 3 ways.

1. Via any Access Reader on the system,
2. Via a card Enrollment Reader,
3. By manually entering the card No.

To auto read the card into the system from a card reader in the system, leave the option set to 'Card Reader Mode' / Access Control' and then from the drop down box select a reader you wish to learn the card into the system from.

Once the reader you will use to learn the card into the system is selected, click on "Read" then take a new card and present it to the select reader to learn it into the database.



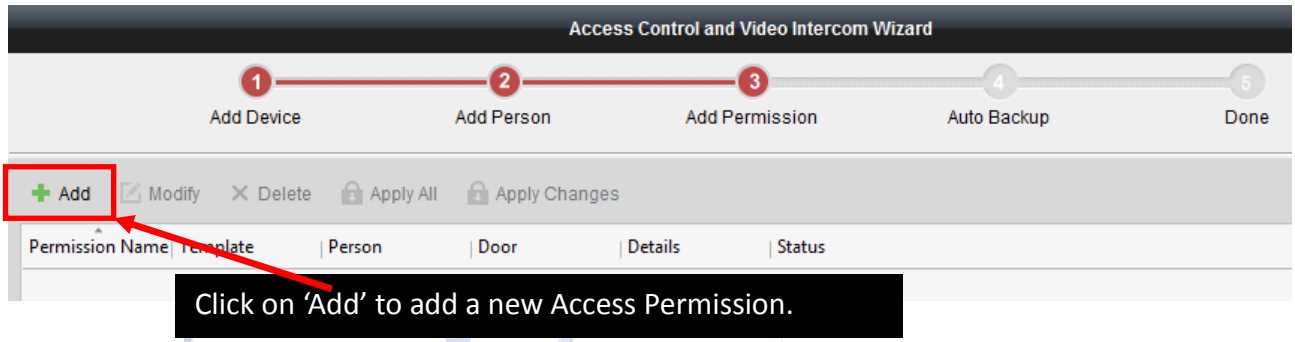


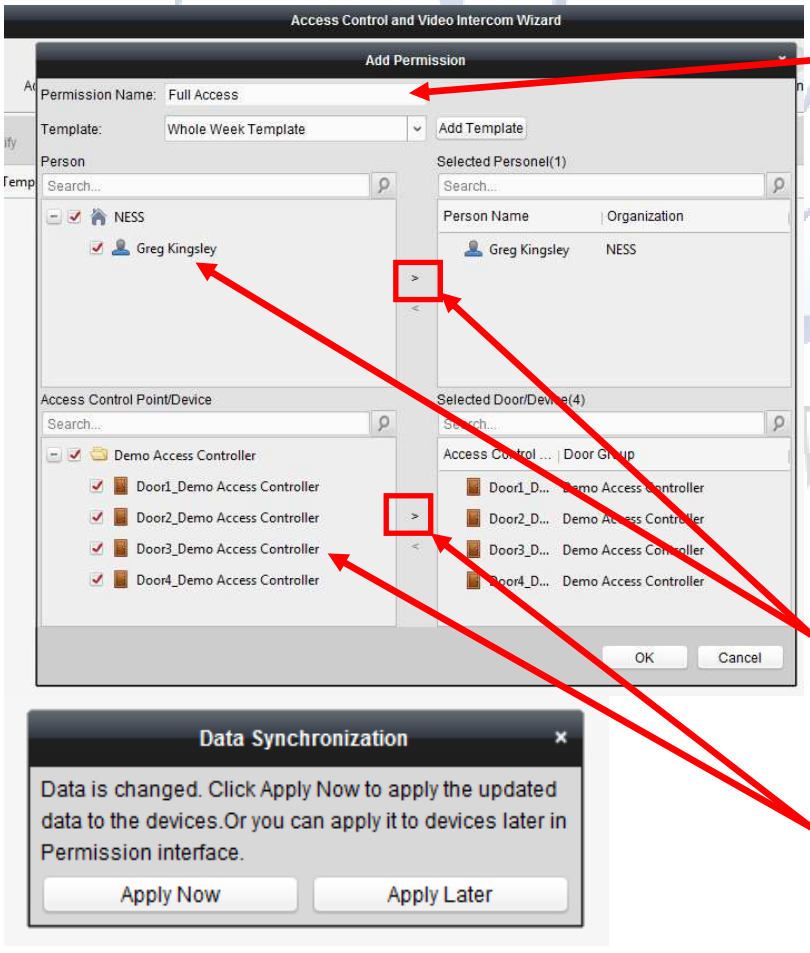
Once the card is presented and read at the selected reader, the card will be displayed at the bottom part of the 'window'. Click on 'Stop Reading' to take the reader out of card read mode.
Then Click on "OK" to register this card to the user.

Step 3. Assigning Permissions to the user

Before a card will work 'permissions' (Access Levels (i/e what doors can the card user during what times)

Click 'Next' to move to 'Add Permissions'.





1. Give the permission Group to be added a name (e.g. Full Access).
   Under the name is a 'Time Schedule template' with a default 'Whole Week Template' as default (i.e. 7 Days 24 Hours)

2. Expand the 'Person' field to display all users in the system and expand the Access controller(s) to show all doors in the system.

3. Select the users you want to assign this Permission (Access Level) to and click on the 'add selected users ">" option

4. Select what door(s) the user can have access to (e.g. All Doors) and click on the 'add selected door(s) ">" option

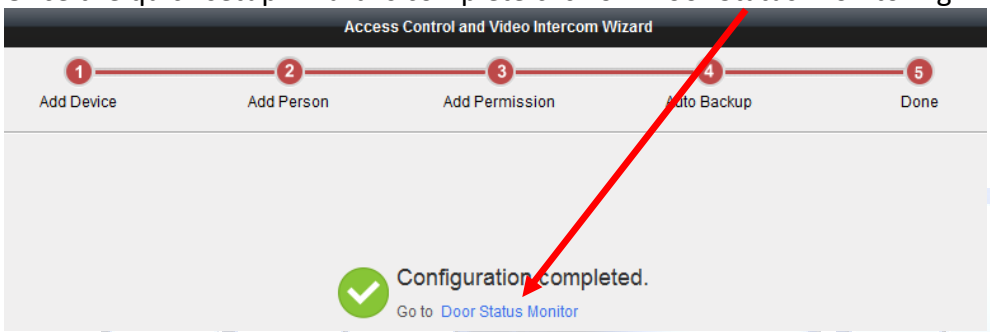
The card should now be working and unlocking all doors (or selected doors as selected in point 4 above) when presented to the reader(s)

Step 4. Auto Backup

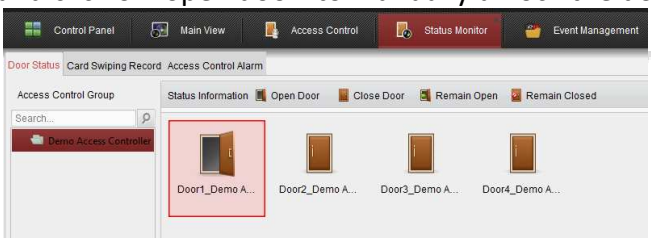
Click 'Next' and select if 'auto Backup' of the database is required and if so what days and time the Auto Backup of iVMS4200 database will take place.
Note: As default the backup location is C:/iVMS-4200. It is advisable to change this default location to a different drive to that of C: Drive. (e.g. Google Drive or USB Drive) so if the hard drive fails all data will not be lost.!

Step 5. Done – go to Door Status Monitor

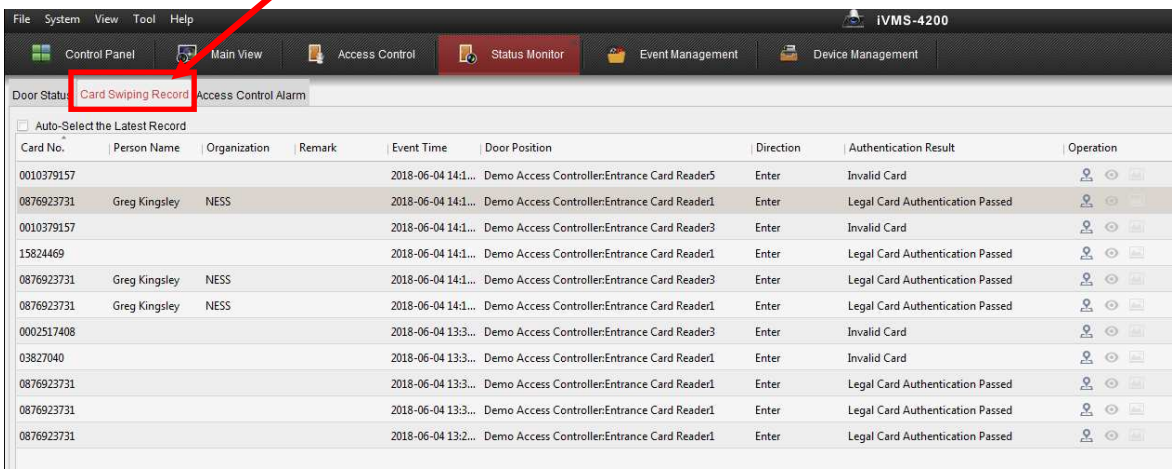
Once the quick setup wizard is complete click on 'Door Status Monitoring'



This will open the 'Status Monitor' module where you can view and manage the status of doors on your controller.
You can select a door(s) and click on 'open door' to manually unlock the door.



By Selecting the 'Card Swiping Record' tab all access events will be displayed as cards are presented to readers.



This manual has been modified by Ness Corporation for our valued customers.

www.nesscorporation.com

For support contact Ness Customer Support
customerservice@ness.com.au