

# **USER'S INSTRUCTION MANUAL**

## **READERS**



## **ACCESS CONTROL**

**OCB-BC2008NT**

## Manual of user












This systems is divided into two parts: hardware and software, this manual just introduces installation, test for project installing, system maintaining.

BC-2008NT system is integrated with computer technology, the micro control technology, the smart card technology, the integration of machinery technology and so on with modernized intelligence access management using the non-contact induction smart card to take the status recognition; this system supports EM ID card between the card and the controller communication using Wiegand26 form, the controller and the computer communication selects RS485 BUS, this system can control 99 gate areas totally, basically it can satisfy the user each kind of demand, and realize difference management automation.

It is designed for guard men and common administrators adopting a English interface window. With power management functions, it can distribute different rights to different administrators. With data management functions, you can check info about cards, records and wrong communications and print them. It's loading of card info function guarantee the safety.

This system requires Microsoft Window 98(Later than second edition), Window 2000 and Window XP.

## Features

-  Built-in PinProx Proximity Reader.
-  Support door status monitors.
-  Support 5 kinds ways to open the door: card only, password only, card or password, card and password, external button.
-  Every controller can support 3000 cards, 3000 password, and over 700 records.
-  Provides 60 time zones, 32 time segments.
-  Supports EM card.
-  Using the non-contact induction smart card to take the status recognition
-  Realize alarm linkage including force alarm, break-in alarm, overtime alarm for Built-in PinProx Proximity Reader.
-  The alarm functions can be set separately.
-  System can be used in a group, can supports up to 99 doors.
-  More details please click: <http://www.szbc.net/>

## Environment requires

### Simple

CPU : Above Pentium 300

Hard disk: Over 200M available place

RAM: At least 32M

Display card buffer: At least 4M

PC system: Microsoft Window98 (second edition or latter), Windows 2000 or Windows XP

### Recommended

CPU: Above Pentium 733MHZ

Hard disk: Above 1G available

RAM: 128M

Display card buffer: 8M

PC system: Microsoft Windows XP

## Installation software

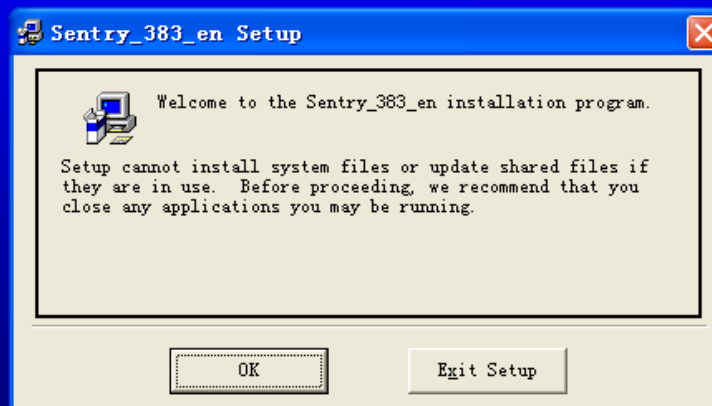
Plug in CD-ROM, and open the installation file, double-click the “setup.exe”, select the path for this system, then do just click “enter”. After finishing installation ,Please open “access control system” to enter into the software. (example for Windows XP), as follows:

Step 1: Plug in CD-ROM, and open the installation file, double-click the “setup.exe”.



Step 2: Click “OK” to enter install the software, or click “Exit Setup” to cancel and exit.

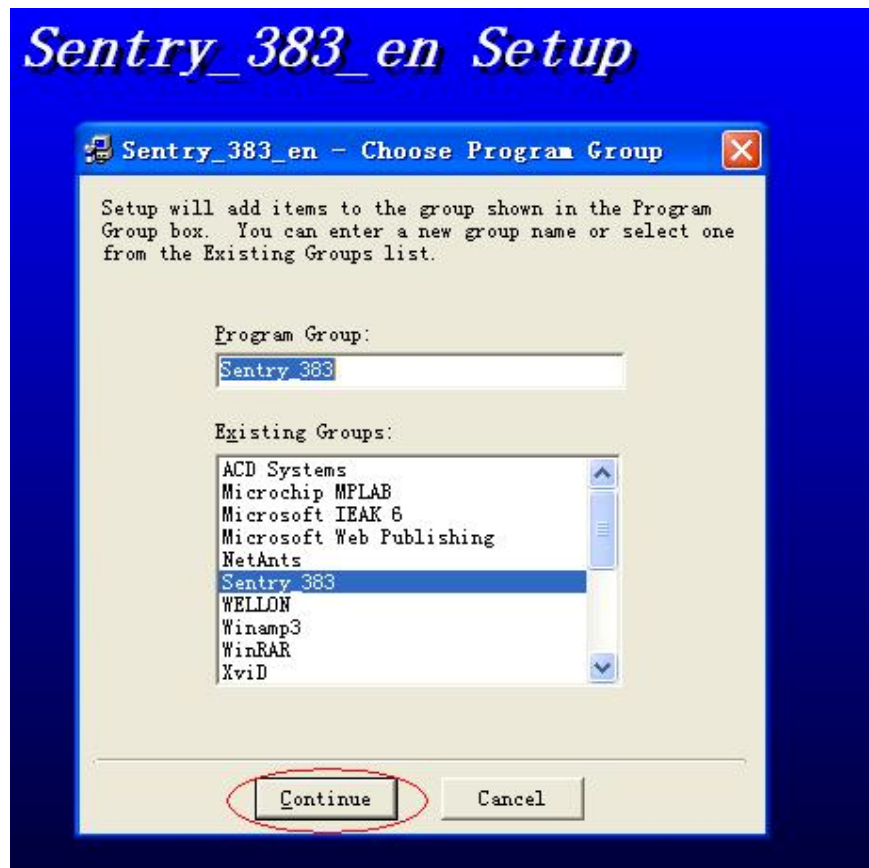
## *Sentry\_383\_en Setup*



Step 3: Click the button to enter install the software, or click “Exit Setup” to cancel and exit.



Step 4: Click “Continue” to continue install the software, or click “Cancel” to exit.



Step 5: The system is Installing and copying the files.



Step 6: Click "OK" to completed.

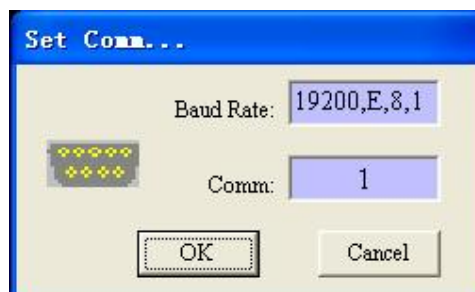


## Starting the soft



## Open Serial port

As bellow :



The fixed baud rate is "19200, E, 8, 1".

Serial port No. is the same with the one plug with RS485 converter.

After click "enter", system will open the serial port to detect the controllers on-line. After click "Cancel",

system will not open the serial port and work on offline.



Note: The follow arising window after click “OK”. It means this port has been used by other program or it does not existent, please confirm the filled port No. must be in conformity to the port No. plug by RS485 converter.



## Login

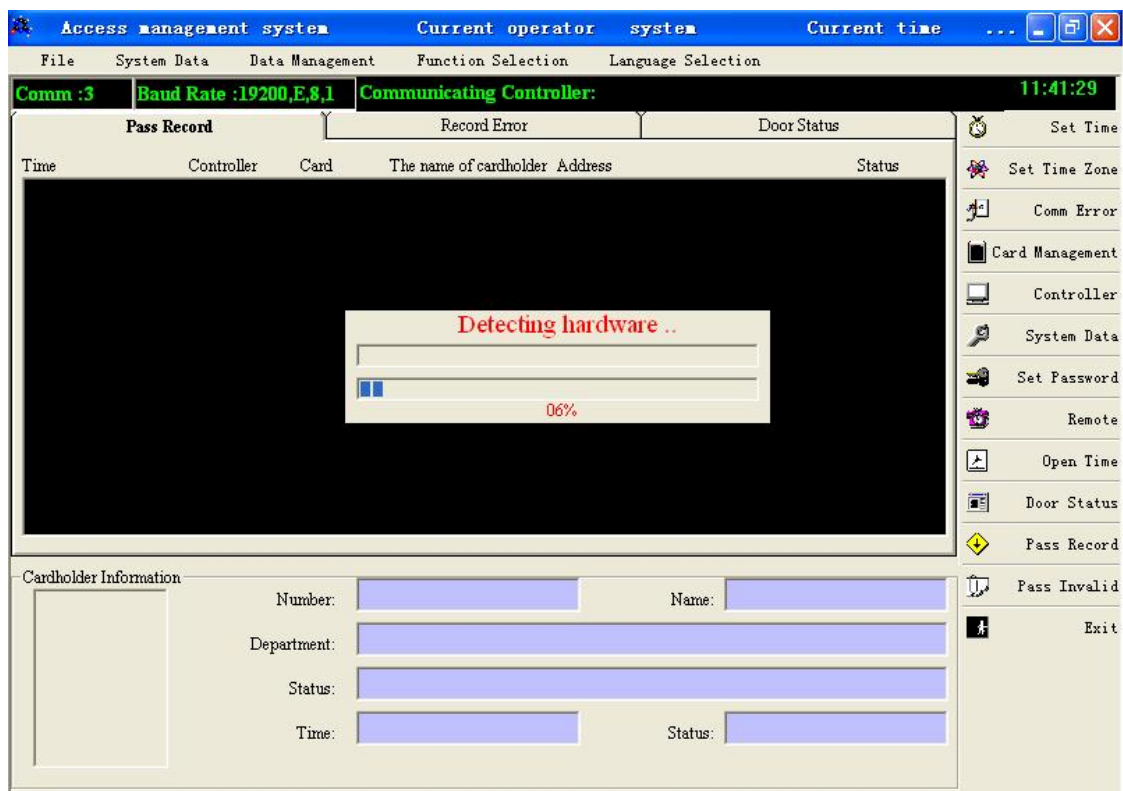
As follows:



The system initial account is “SYSTEM”, and the password is 1234.

Click “OK” to enter into system, click “Cancel” to exit the system.

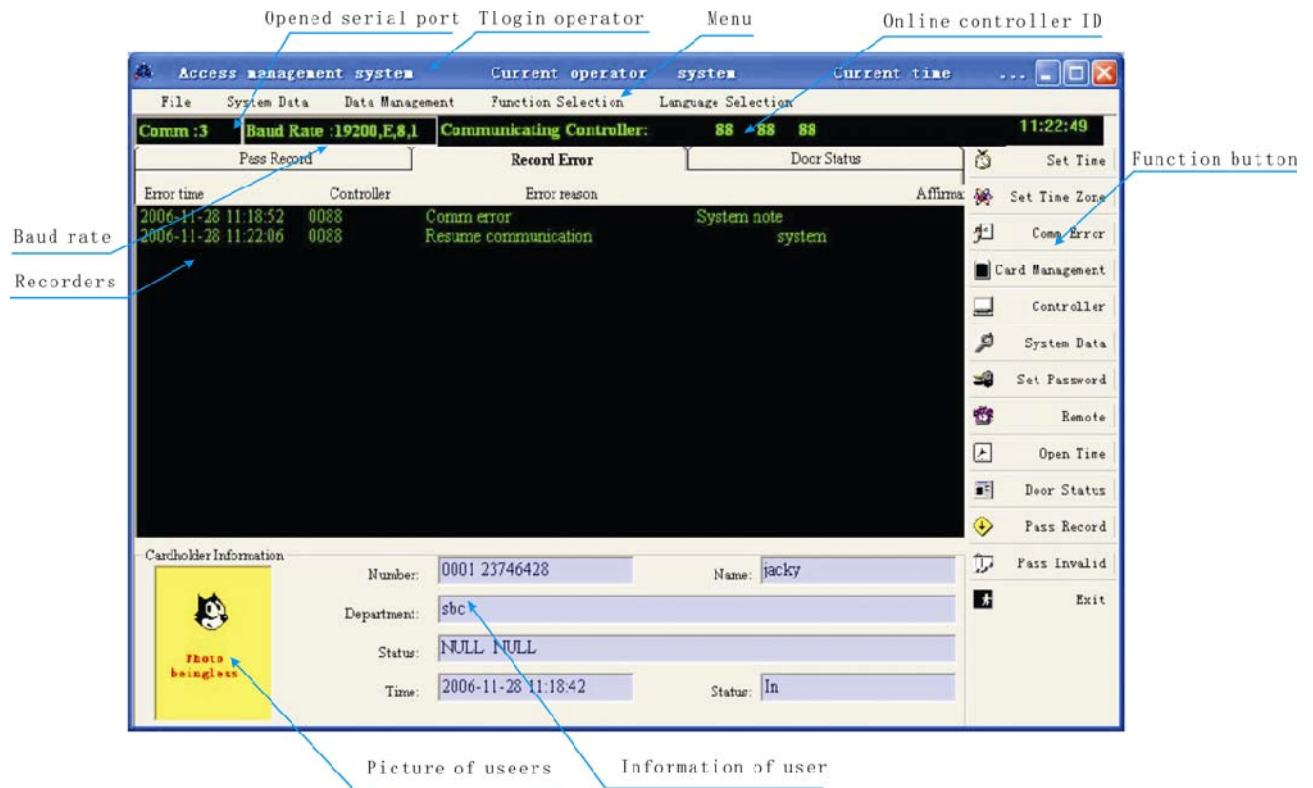
## Detecting hardware



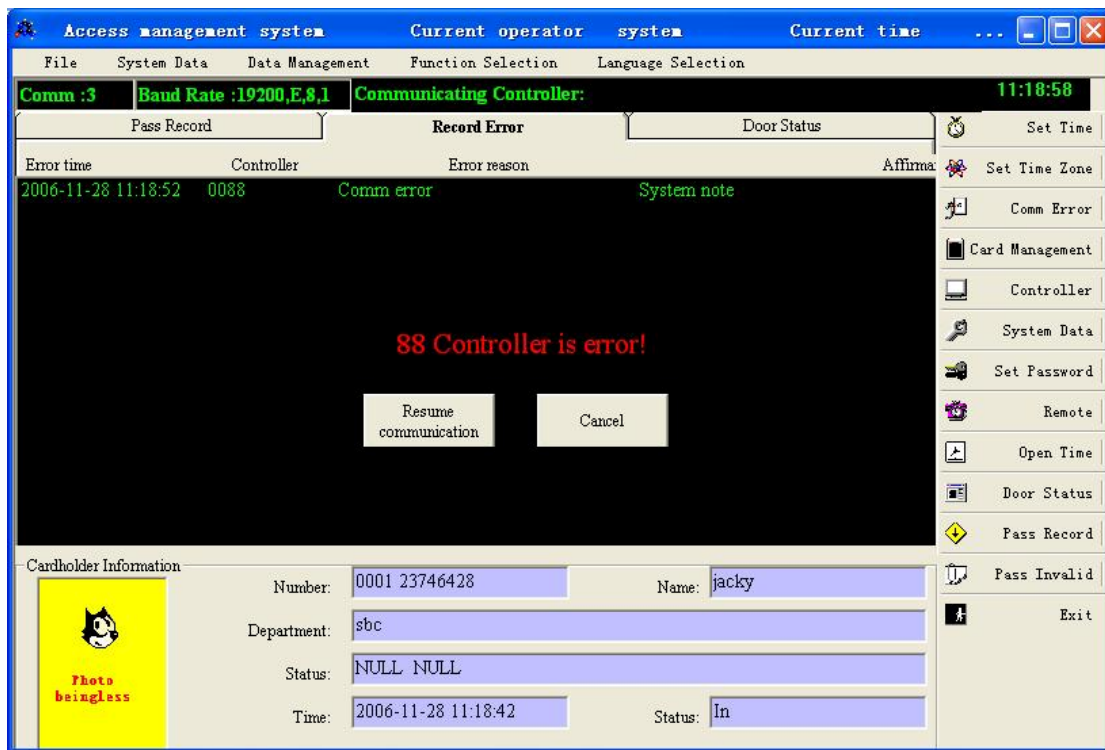


Please confirm all the controllers are powered before enter into the system because when going into the system while the serial port is open .the system will search all controllers which are connected to the RS485 Bus.

## Main frame



## Abnormality communication



When the controllers offline, system will pop an alarm frame automatically, and will record this info. If Resume, please directly click “Resume communication”, if not, please click “Cancel” to close this alarm frame.

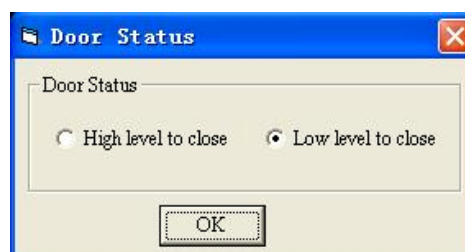
## Door status monitor

The system real time monitor the door status, and can change the status to adopt the tamper switch link ways.

Click “Door Status” as follows:



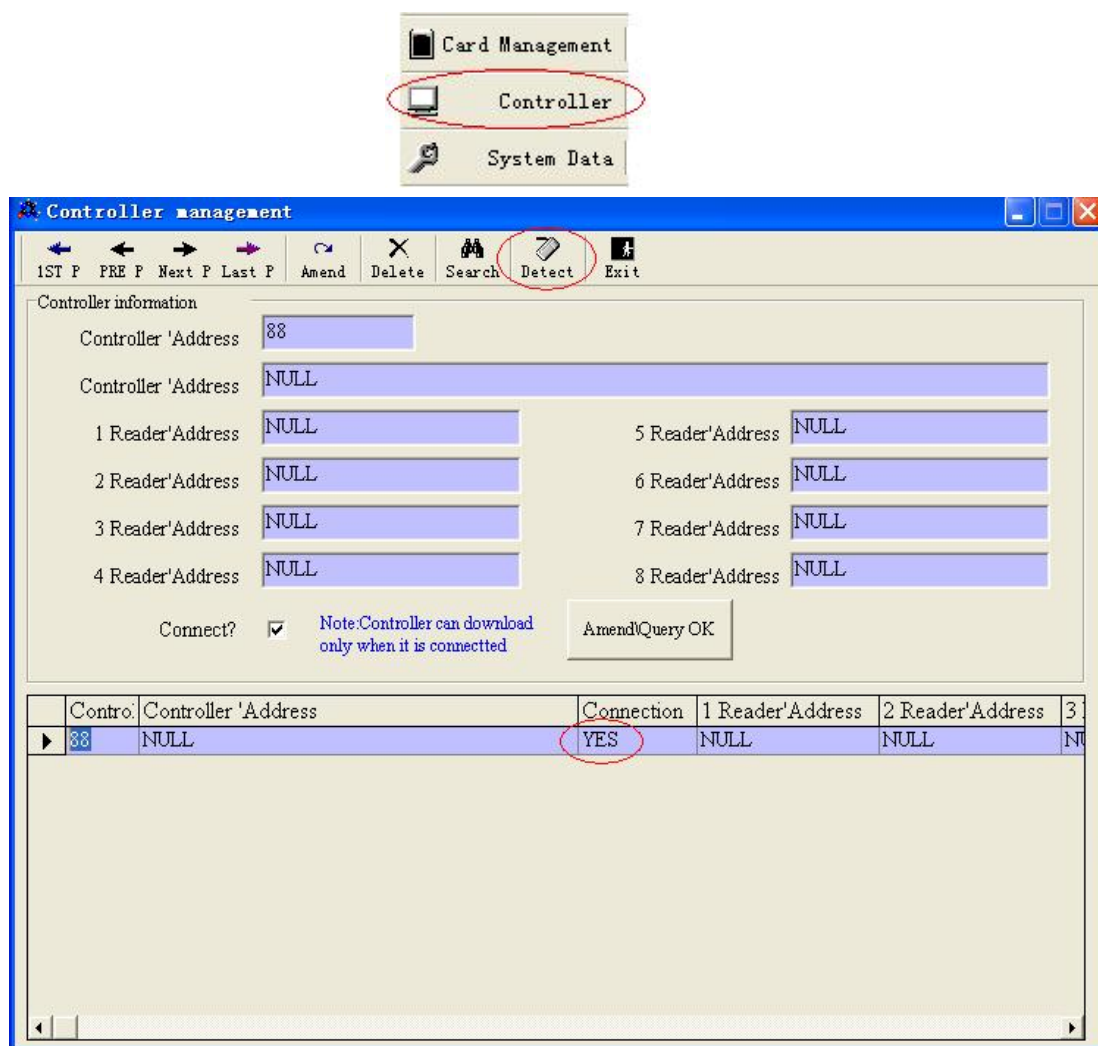
Enter into door status setting, as bellow:



When the setting for this door area is changed, the showed door status will be changed.

## Controller management

Click “Controllers” as follows, it will enter controller management frame.



After the plug -and -play detect, all the controllers' ID will be displayed in this table ,if it online ,the value for "connection" show "YES" or shows "NO".

## Button functions of Controller management



Use for re-searching the controllers online, and save their information.



Use for changing the controllers' installation information. When offline, please fill in ☒,

Amend affirm

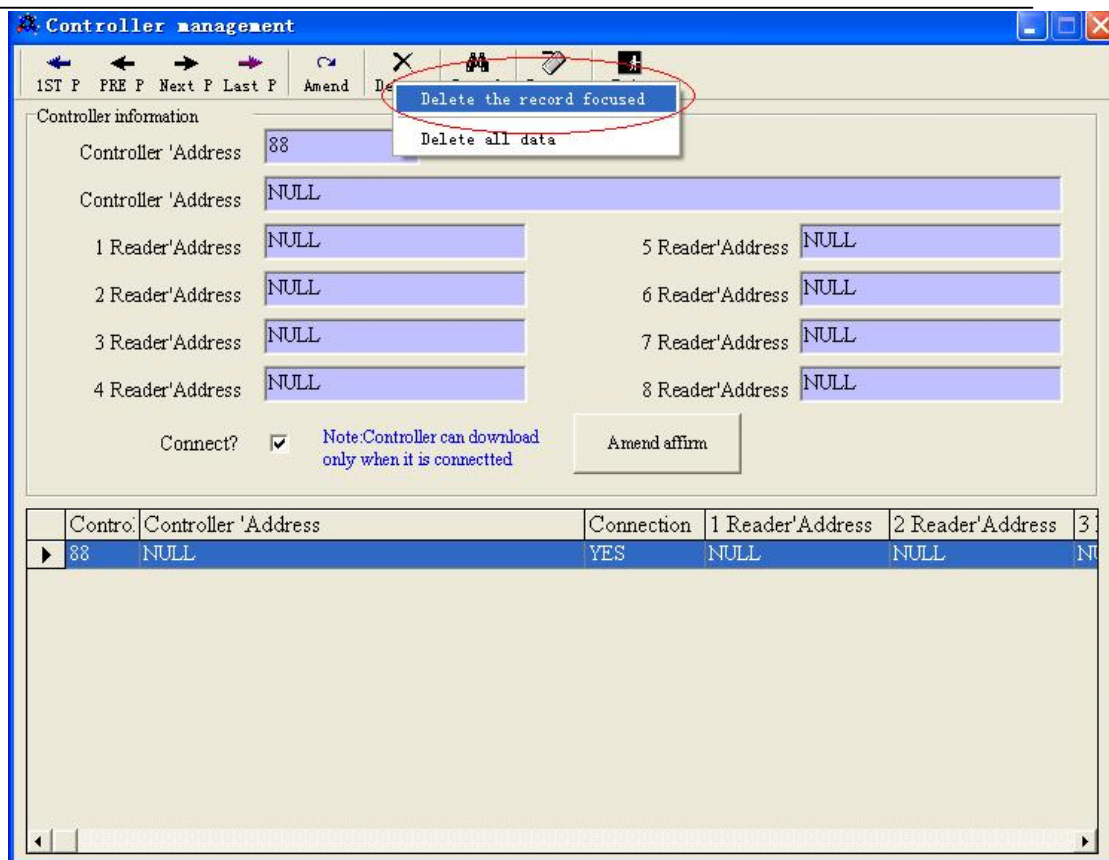
then click to connect this controller separately.



Use for deleting controllers', as follows:

### Delete selected controllers

1. Select the controller by double-click, then all the information about this one will showed in the field "controller's memo."
2. Click "Delete" then arise the follows:



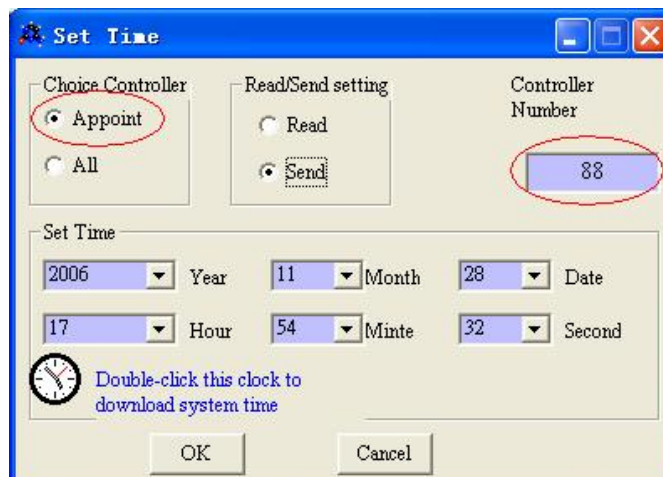
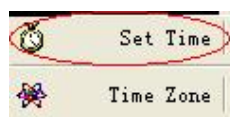
3. Click "Delete the record focused".
4. The system will ask you to confirm if to delete, click "OK" to delete, click "Cancel" to give up.
5. If need delete all the controllers, just click "delete all data".



Use for searching info about the controllers and show all the info, in the "controllers memo".

## Set time

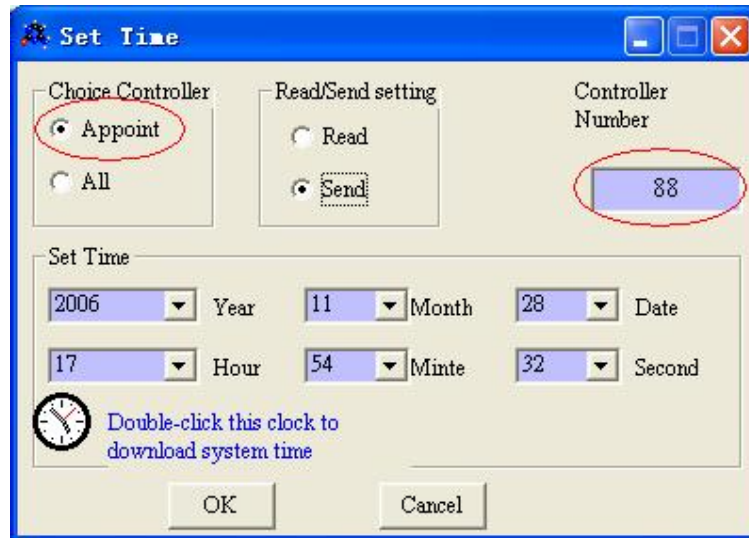
Click "Set time" as follows:



## Functions of set time frame

### Get the selected controller's time

Select the “selected controllers” as follows:



And select “Read” in the submit menu as follows:




Input the selected controller's number, then click “OK”

### Set time

At first, confirm “Send” is selected as follows:



1. Setting selected controller's time.
2. Input the controller's number.
3. Double-click  , then the system will send the time to the controller.
4. Or input year, month, day, hour, minute, second, week, then click “OK”

Note: Sunday is expressed by “7”.

### Setting all the controllers' time

Select “all” in the menu as follows:





The rest steps are the same as set for a selected controller.

## Time zone function

Click "set time zone" as bellow:



Enter the setting frame as follows:

The "Time Function Set" dialog box is shown. It has two main sections: "Time segment set" and "Time area set". Both sections have radio buttons for "Appoint", "All", "Read", "Set", "Clear", "One", and "All". The "Controller" is set to "88". The "Time zone" field is empty. The "Time segment set" section has a table with 32 rows (0 to 31) and 4 columns (Start time, End time, Start time, End time). The "Time area set" section has a table with 60 rows (1 to 60) and 4 columns (Time 1, 2, 3, 3). The "Time area set" table is divided into four groups of 15 rows each. The "Time area set" table has a note: "When time zone set, fill in integer between 00--31".

### Time segment functions

This system has 32 time segment coded from "0" to "31", and among them, the time segment "0" and "31" can not be edited.

### Get single segment information from controller

Setting as follows:

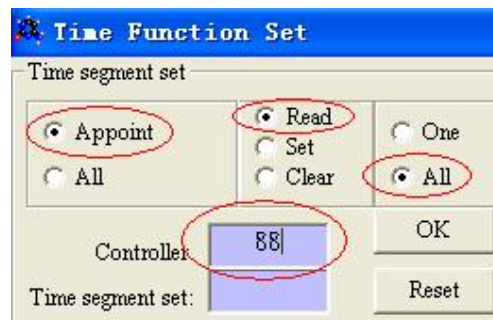




That means it read into the time segment 1 info of which controller ID “88”

### Read into all the info

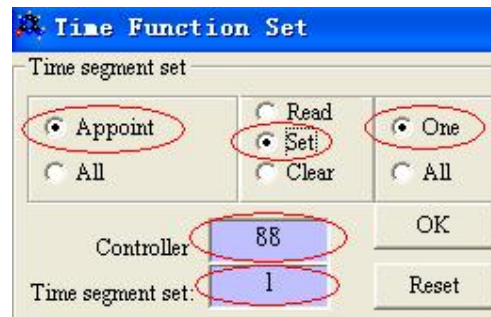
Setting as bellow:



That means read all the info of controller ID “88”

### Set one segment info

Setting as follows:



It means the systems set NO 1 segment for NO 88 controller.

### Setting all time segment for a selected controller

Setting as follows :

**Time Function Set**

Time segment set

☒ Appoint
 ☐ Read
 ☐ One

☐ All
 ☒ Set
 ☐ Clear
 ☒ All

Controller: 88 OK

Time segment set: 1 Reset

	Start time	End time	Start time	End time
0	00:00	00:00	16	10:40
1	8:00	8:10	17	10:50
2	8:10	8:20	18	11:00
3	8:20	8:30	19	11:10
4	8:30	8:40	20	11:20
5	8:40	8:50	21	11:30
6	8:50	9:00	22	11:40
7	9:00	9:10	23	11:50
8	9:10	9:20	24	12:00
9	9:20	9:30	25	14:00
10	9:30	9:40	26	14:10
11	9:40	9:50	27	14:20
12	9:50	10:00	28	14:30
13	10:00	10:10	29	14:40
14	10:10	10:20	30	14:50
15	10:20	10:30	31	15:00
				23:59

This means setting all time segments for NO.88 controller.

**Deleting one segment info** (the data of segment is null after cleared)

Do it as follows :

**Time Function Set**

Time segment set

☒ Appoint
 ☐ Read
 ☐ One

☐ All
 ☐ Set
 ☒ Clear
 ☐ All

Controller: 88 OK

Time segment set: 1 Reset

This means deleting all info about No.2 segment of Np.1 controller.

**Delete all segment' info**

Do it as delete one segment just selected "all"

You can do all the above settings for all the controllers by just selecting "all controllers".

Time segments filled-in data as bellow:

	Start time	End time
0	00:00	00:00
1	07:00	08:00
2	12:00	12:30
3	18:00	18:30

That means the valid time for No.1 segment is from 07:00 to 8:00 ,the other time is invalid .the NO 2 segment valid time is from 12:00 to 12:30,other time is invalid Note: the NO 0 segment is from 00:00 to 00:00,that means no entry in all-day. NO 31 segment is from 00:00 to 23:59, that means vulgate in all-day. and these two segment can not be edited.

### Time zone function

This system support 60 time zones, and three time segment in each zone, that means only these three segment are valid in this zone.

Time zones reading and setting are the same as do in the time segment reading and settings.

Time zones filled-in data:

When time zone set,fill in integer between 00--31

	Time 1	2	3		Time 1	2	3
1	14	17	13	16	31	31	31
2	1	6	10	17	31	31	31
3	3	8	20	18	31	31	31
4	0	0	0	19	31	31	31
5	0	0	0	20	31	31	31

This setting means:

The cards selecting NO 1 time zone can only be valid in the time segment NO 14, NO 17 and NO 13.

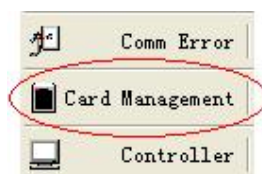
The cards selecting NO 2 time zone can only be valid in the time segment NO 1, NO 6, NO 10.

When the three segment are set "00","00","00" that means the cards selecting this zone will be invalid all day such as NO 4 ,NO 5 zones.

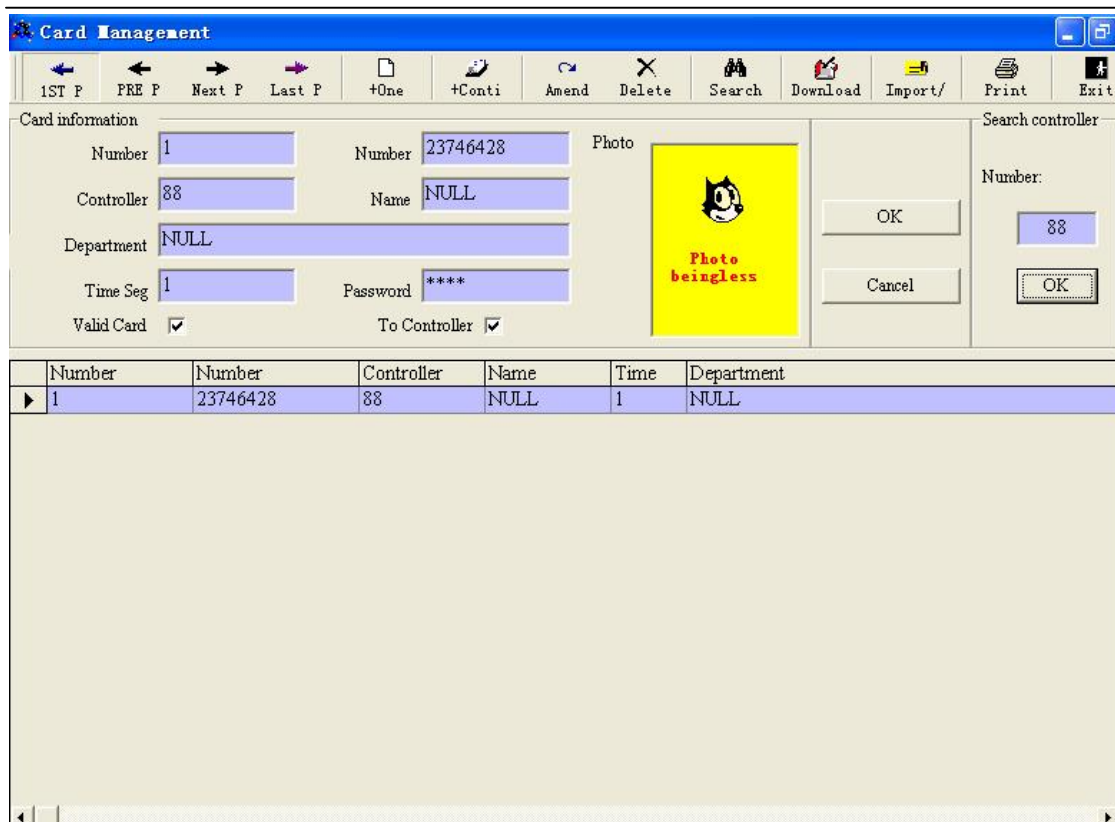
When the three segment are set as "31","31","31" ,that means the cards selecting this zone will be valid all day ,such as NO16, NO 17 zones.

## Card managements

Click button "Card Management" as follows:



Enter into card management frame as follows:



Number	Number	Controller	Name	Time	Department
1	23746428	88	NULL	1	NULL

This function includes manage and register cards, and send the card data to corresponding controllers, and the card info can be sorted by controllers and displayed ;users can use



 to display next controller's cards' info.

### Button introductions of card management



 Use for add a card to database and controllers, so as follows:

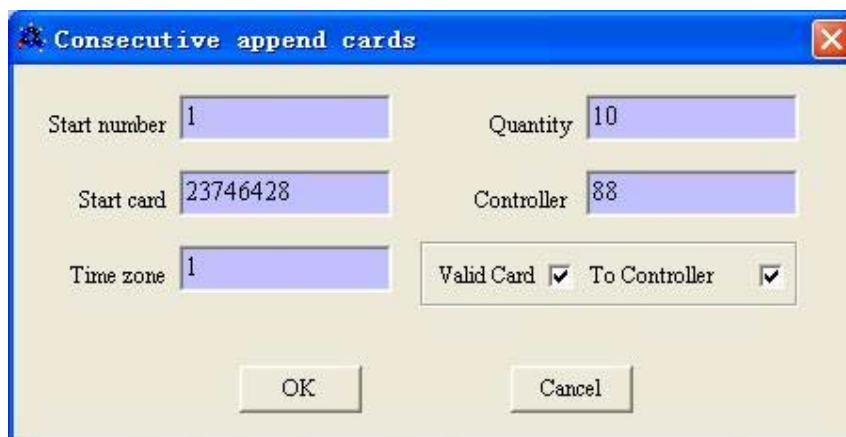
Click “+One”, the system will list all the minimal numbers in the card number field for users’ references, but users can fill in any unused whole number between 1 and 3000 as card code, then fill in card number (produce by machine), user’s name, address, time zone, password, and so on. If make the card valid,

please select “Valid ☒”, if you want register the card info into the controller, please select “To

Controller ☒”, if adding photo to this card, then double-click this photo then click , if not ,please click “Cancel”.

After adding the first card, the system will continue to add next card, if you want, please do as step 1, otherwise, click “Cancel” to exit.


 Use for addend a group of cards with serial codes, do it as follows:



The dialog box titled "Consecutive append cards" contains the following fields and controls:

- Start number:** Text box with value "1"
- Quantity:** Text box with value "10"
- Start card:** Text box with value "23746428"
- Controller:** Text box with value "88"
- Time zone:** Text box with value "1"
- Valid Card:** Check box, checked
- To Controller:** Check box, checked
- Buttons:** "OK" and "Cancel"

Please fill in the starting number in “Start number” field, quantity in “Quantity” field, starting card in “Start card” field, and time zone info. The “Valid card” and “To controller” are optional, then click “OK” to save these settings.

After click “Cancel” to exit, and all the saved info will be displayed in card management field.



**Amend** : Use for change the saved cards’ info, do the same as add one card.




**Delete** : Use for delete the cards in the controllers or in database, do as bellow:



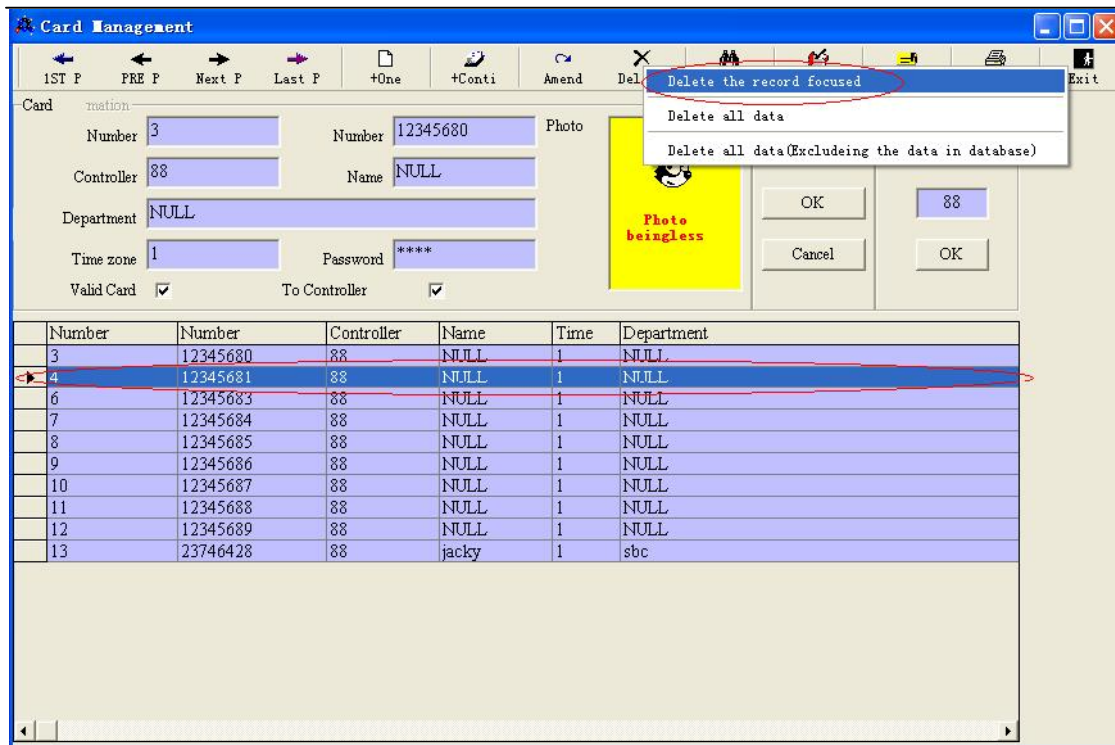
Click **Delete** button, then arise menu as follows:

- Delete the record focused
- Delete all data
- Delete all data(Excludeing the data in database)

### Delete the record focused card

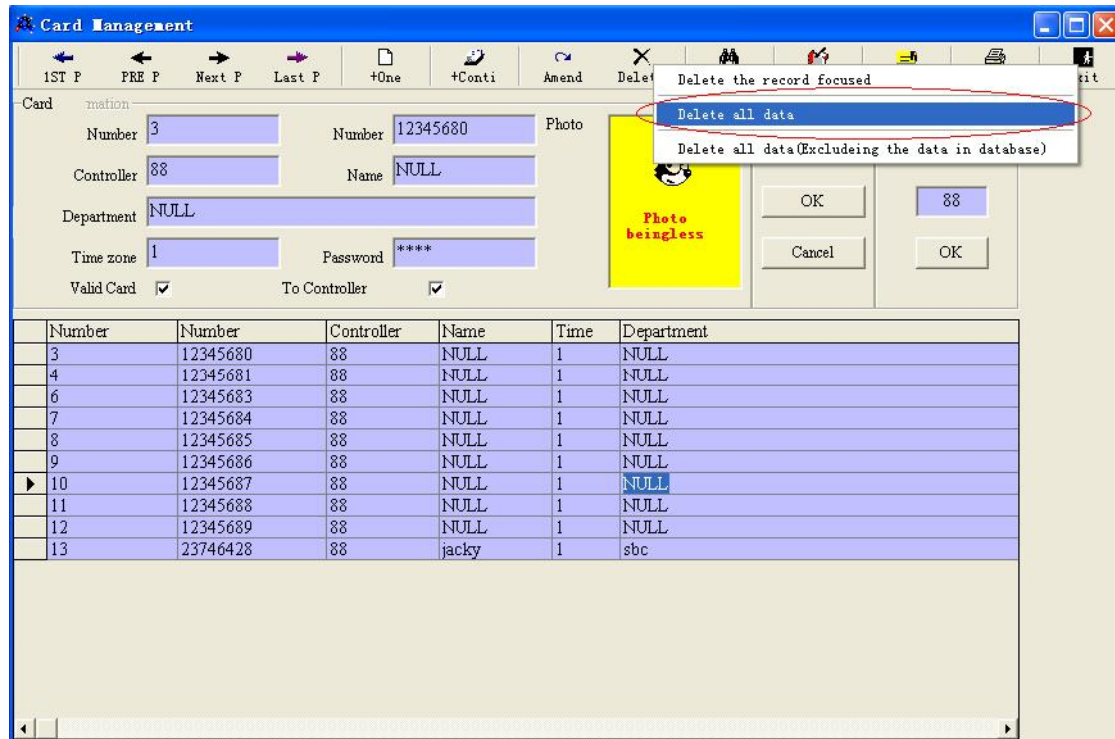
Before deleting, you must list this card’s info in card field by click it, then click  button, and then click “Delete the record focused”, do it as follows:





### Delete all info in the controller

Use for deleting all cards in database and the controllers, do it as follows:



### Delete all data (Excluding the data in database)

Uses to delete all card info in the controller, but can not delete the data in database.



Use for search for cards' info in the current controller; after clicking "search" button, then fill in some terms in "Number. ", "Card number", fields ,and then click "Query OK".



Use for download the cards into the controllers: Click “Download” then arise a communication frame, then fill in info about the controller, then click “OK”.

**Local download** (such as cards belonging from No. 88 controller downloaded to No. 88 controller), the system will download all the cards’ info from database to the controller.

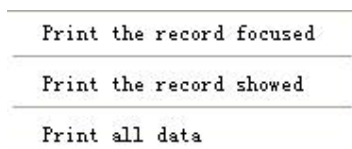
**Different download** (such as cards belonging from No. 88 controller downloaded to other controllers); the system will copy this cards info to the controller’s database, then do local download.



Use for saving the cards info to Excel document, or sending the Excel document to database (this system support Excel document only).



Use for print the cards info to printer by click “print”, then arise a menu, as follows:



**Print the record focused:** Use for printing the selected info in the list.

**Print the record showed:** Use for printing all of showed info in the list.

**Print all data:** Use for print all the cards info in the controller.

**Search controller:** Controllers search as follows:



Use for search cards info belonging to this controller, such as: searching cards info in No. 88 controller, Fill in the number 88, then click “OK” then will list all the cards info in this table.



Use to exit this management frame.

## Remote

Click button “Remote” as follows:



Enter the remote control frame:



The 'Remote' window is divided into two main sections: 'Directly open' and 'Emergency Access'.

**Directly open:** Contains a 'Controller Number' field with the value '88', a 'Door' dropdown menu with '1' selected, and a 'Time' field with '1'. An 'OK' button is at the bottom.

**Emergency Access:** Contains two radio buttons: 'Emergency open' (selected) and 'Emergency close'. Below this is a 'Door Status' table with four rows, each with a 'Keep Status' checkbox.

Door Status	Keep Status
1	<input type="checkbox"/>
2	<input type="checkbox"/>
3	<input type="checkbox"/>
4	<input type="checkbox"/>

On the right side of the 'Emergency Access' section, there is a 'Controller Number' field with '88' and an 'OK' button.

### Directly open

Such as above showing, it means the door controlled by No. 88 controller will be open with the same time setting as open the door with cards.

### Emergency Access

Use for opening or closing a door in emergency.

## Set Password

Click "Set password" as follows:



Enter password setting frame as follows:

The 'Set Password' window has a toolbar at the top with buttons: '1ST P', 'PRE P', 'Next P', 'Last P', 'Append', 'Amend', 'Delete', and 'Exit'.

Below the toolbar, there are three input fields:

- Operator:** A text field containing 'system'.
- Password:** A text field containing '\*\*\*\*'.
- Project administrators:** A dropdown menu with 'Project administrators' selected.

At the bottom, there are 'OK' and 'Cancel' buttons.

This function is for adding, editing or changing administrators. The operators in this system are ranked three grades from high to low: "Project administrator", "Systems administrator", "Watch".

### Buttons functions of set password frame:



Use for adding new operators (high-grade operators can add the operators whose grade are lower.



Amend

Use for change password, any operator just can change himself password only.



Delete

Use for delete operators (high-grade operators can delete those whose grade are lower) but “Watch” have not any rights about this function.

Other buttons functions are similar with Card Management functions.

## Access Record

Click button “Access Record” as follows:



Enter the access record management frame as follows:

Time	Number	Card number	Name	Address	Access Door
2006-11-25 16:09:02	1	23746428	NULL	NULL	NULL
2006-11-25 16:09:08	1	23746428	NULL	NULL	NULL
2006-11-25 16:09:18	1	23746428	NULL	NULL	NULL
2006-11-25 16:09:22	1	23746428	NULL	NULL	NULL
2006-11-25 16:09:48	1	23746428	NULL	NULL	NULL
2006-11-25 16:09:52	1	23746428	NULL	NULL	NULL
2006-11-25 16:09:55	1	23746428	NULL	NULL	NULL
2006-11-25 16:29:36	1	23746428	NULL	NULL	NULL
2006-11-25 16:31:42	1	23746428	NULL	NULL	NULL
2006-11-25 16:31:45	1	23746428	NULL	NULL	NULL
2006-11-25 16:32:38	1	23746428	NULL	NULL	NULL
2006-11-25 16:32:41	1	23746428	NULL	NULL	NULL
2006-11-25 16:32:49	1	23746428	NULL	NULL	NULL
2006-11-25 16:36:45	1	23746428	NULL	NULL	NULL
2006-11-25 16:36:52	1	23746428	NULL	NULL	NULL
2006-11-25 16:37:03	1	23746428	NULL	NULL	NULL

Search

Time [ ] [ ] <= [ ]

[ ] = [ ]

Please fill object in first textbox, and query term in second textbox, then click 'OK' or 'Clear' to clear result

OK Clear

This table records in and out info from the controllers, the buttons functions in this frame are similar with ones in above-mentioned frames.

### Search functions

There are two ways: Common Search and Terms Search

Terms search, do as follows:

Search

Time >= 2006-11-29 8:30:00 <= 2006-11-30 11:30:00

Name = Jacky

Please fill object in first textbox, and query term in second textbox, then click 'OK' or 'Clear' to clear result

OK Clear

It means the terms are: the valid time between 8:30:00 on 11. Nov.2006 and 11:30:00 11.Nov.2006; the name is Jacky; the additional terms as follows:

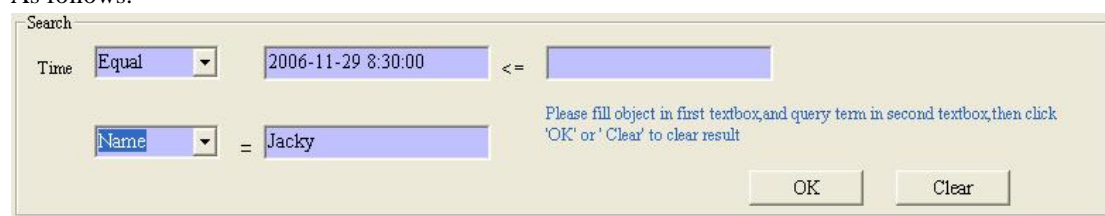


If without the terms of name, it will show all the records on the terms: valid time between 8:30:00 on 29 Nov. 2006 and 11:30:00 30Nov.2006.

If the term's is name: Jacky, then it will list all records whose name field value is Jacky.

### Common search

As follows:



It will show Jacky's all records within 8:30:00 on 29Nov.2006

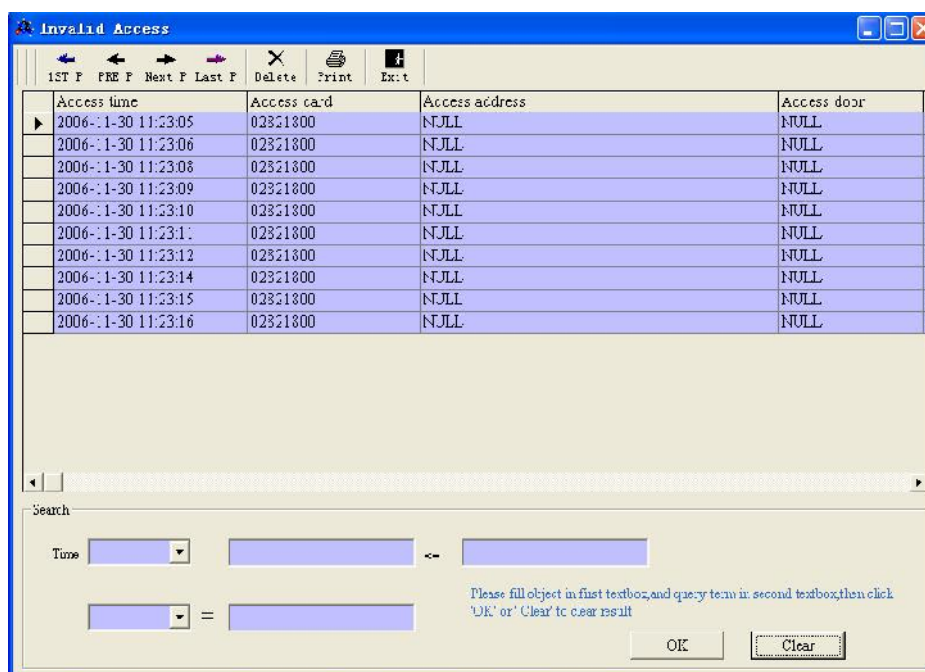
Without the additional terms, it will list all recorders within 8:30:00 on 29Nov.2006

Invalid in and out:

Click button "Invalid Access" as follows:



Enter Invalid Access frame:



Access time	Access card	Access address	Access door
2006-11-30 11:23:05	02821800	NULL	NULL
2006-11-30 11:23:06	02821800	NULL	NULL
2006-11-30 11:23:08	02821800	NULL	NULL
2006-11-30 11:23:09	02821800	NULL	NULL
2006-11-30 11:23:10	02821800	NULL	NULL
2006-11-30 11:23:11	02821800	NULL	NULL
2006-11-30 11:23:12	02821800	NULL	NULL
2006-11-30 11:23:14	02821800	NULL	NULL
2006-11-30 11:23:15	02821800	NULL	NULL
2006-11-30 11:23:16	02821800	NULL	NULL

This file records all the info about invalid access, the buttons functions on this frame are the similar with

“Access Record “

## Comm error

It means communication error.

Click the button as belows:



Enter communication error frame, as follows:

**Communication error**

Navigation: 1ST P, PRE P, Next P, Last P, Delete, Print, Exit

Error time	Controller Error	Error reason	Affirmant
2006-11-29 17:56:48	1	Comm error	system
2006-11-29 15:37:29	88	Comm error	system
2006-11-28 18:07:51	88	Comm error	system
2006-11-28 11:18:52	88	Comm error	system
2006-11-25 18:30:53	88	Comm error	SYSTEM
2006-11-25 17:17:42	88	Comm error	system
2006-11-25 17:10:03	88	Comm error	system
2006-11-25 17:08:12	88	Comm error	system
2006-11-25 16:53:56	88	Comm error	system

Search: [ ] = [ ]

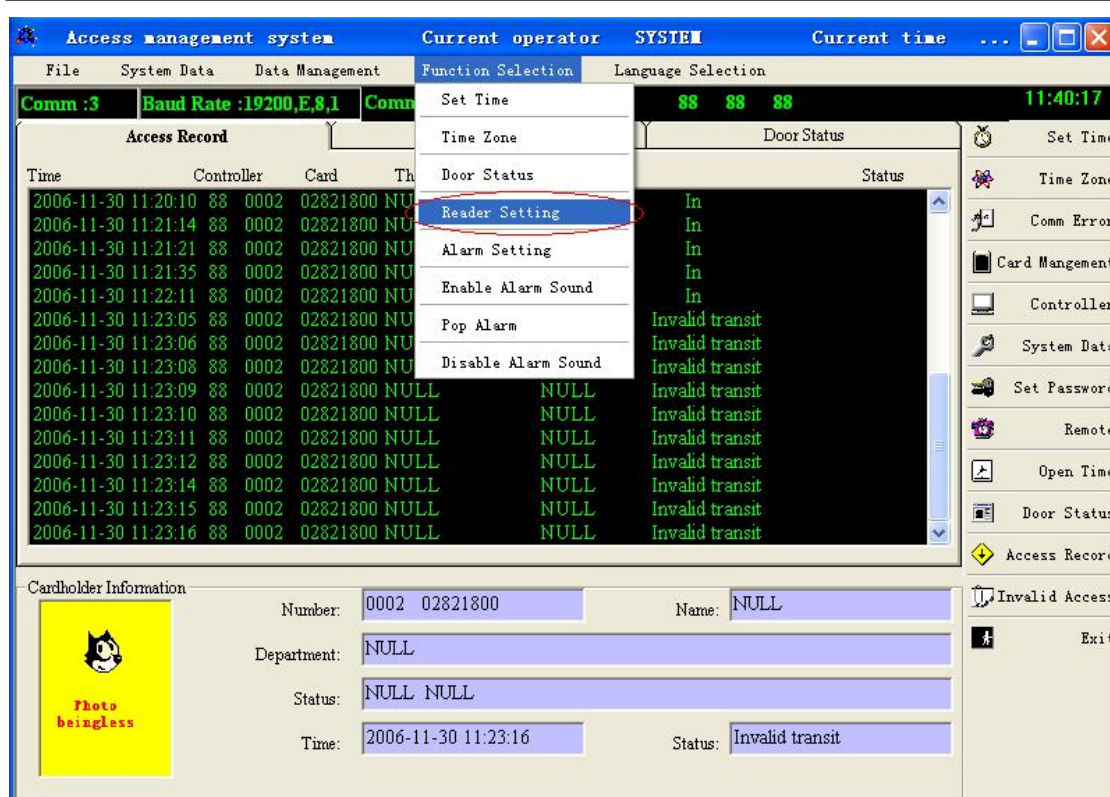
Please fill the object which you query in first frame, and fill query term in second frame, then click 'OK'. Please click 'Clear' if you want clear the query term

OK Clear

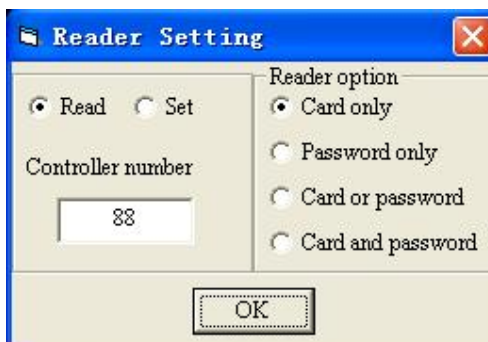
This table records all the info about non-connect time, controllers' number, the buttons functions are similar with ones on the “Access record” frame.

## Reader Setting

Click item “Reader Setting” in the menu of “function selection”, do it as follows:



Enter reader setting frame as follows:



This setting is just for built-in *PinProx* Proximity Reader.

**Card only:** read card only to open the door.

**Password only:** input the users' password only by the keypad to open the door.

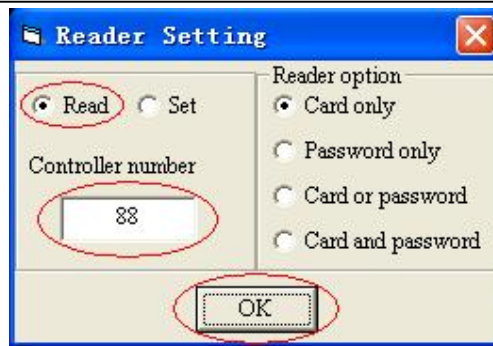
**Card or password:** through read the card or input the password to open the door.

**Card and password:** read the card and input password to open the door.

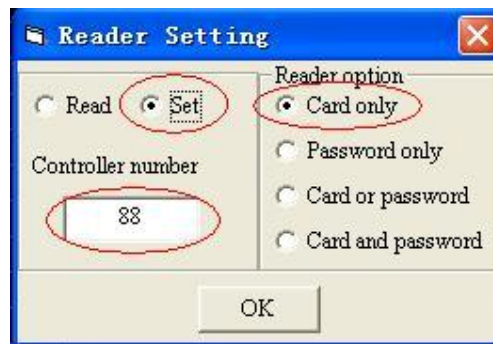
**Operating steps:**

1. Get the setting of the controller: "Read" is selected, and fill in the controller No., then click "OK", as follows:



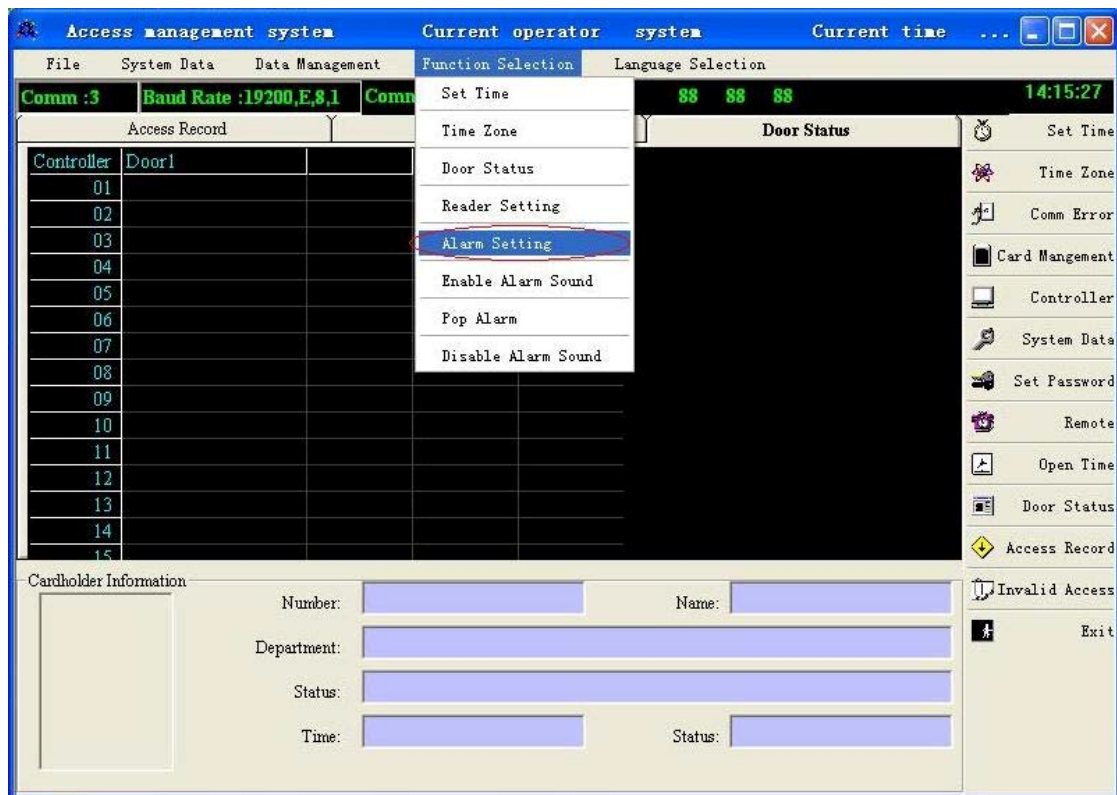


2. Setting: when “set” is selected, select the reader options and then click “OK”, do it as follows:



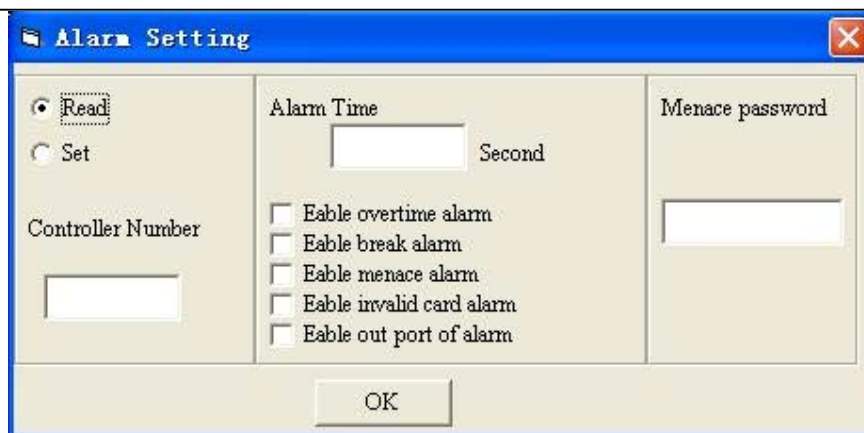
## Alarm setting

Click “Alarm Setting” in the “Function Selection” of the menu as follows:



Enter alarm setting frame:





The 'Alarm Setting' dialog box has a title bar with a close button. It contains three main sections:
 

- Left Section:** Radio buttons for 'Read' (selected) and 'Set'. Below is a 'Controller Number' text field.
- Middle Section:** 'Alarm Time' text field followed by 'Second'. Below are five checkboxes: 'Eable overtime alarm', 'Eable break alarm', 'Eable menace alarm', 'Eable invalid card alarm', and 'Eable out port of alarm'.
- Right Section:** 'Menace password' text field.

 An 'OK' button is at the bottom center.

**Alarm time:** the continuous time of alarming

**Overtime alarm:** If delaying to close the door after opening, then it send alarm; this function can be available after the door status inspector is connected.

**Break alarm:** when the door is open illegally, it will send alarm, this function is also available after connected with door status inspector.

**Menace alarm:** when the user is intimidated, input this password, then the door is open and it will send alarm.

**Invalid card alarm:** when the card is invalid or the input password is invalid, it will send alarm.

**Alarm output port:** this is for setting if start arousing signal, it is designed for realizing linked alarms.

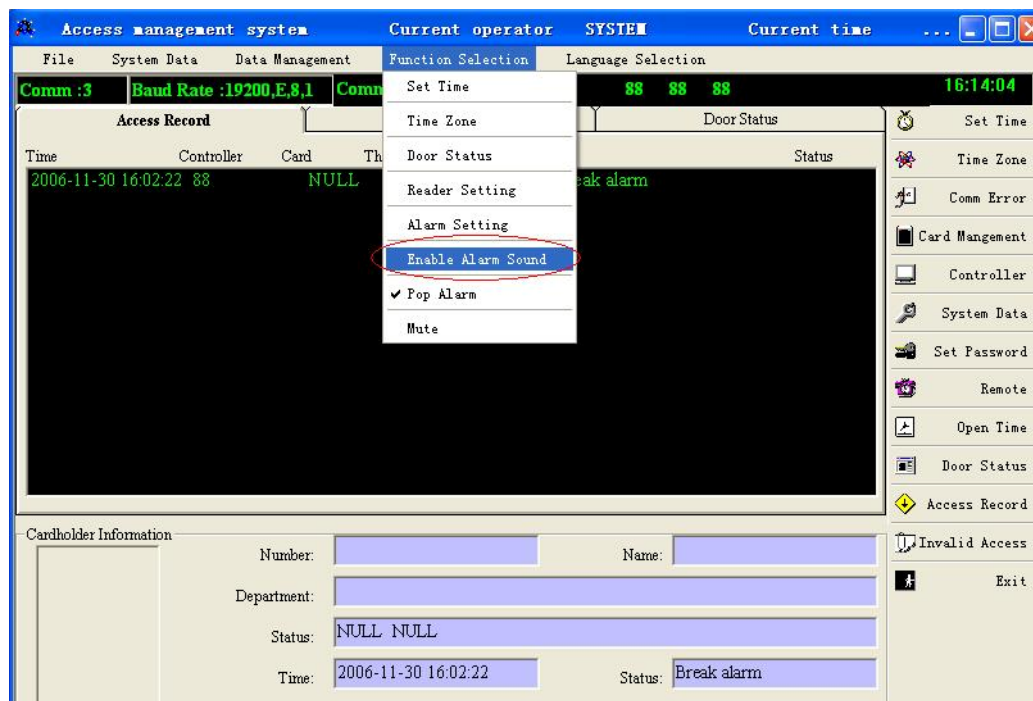
**Note:** there is have not this function in the BC-2008NT controller.

**Menace password:** 4 digits.

**Note:** this password is different from user passwords.

## Sound setting

Click "Enable Alarm Sound" in the "Function Selection" of the menu, as follows:

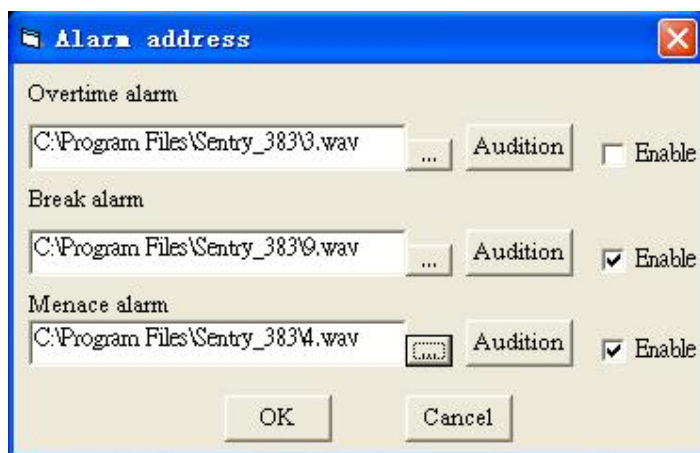



The 'Access management system' main window shows a menu with 'Function Selection' open. The 'Enable Alarm Sound' option is highlighted with a red circle. The window also displays system status (Comm:3, Baud Rate:19200,E,8,1), an 'Access Record' table, and 'Cardholder Information' fields at the bottom.


Time	Controller	Card	Th
2006-11-30 16:02:22	88	NULL	

Number:		Name:	
Department:			
Status:	NULL NULL		
Time:	2006-11-30 16:02:22	Status:	Break alarm

Enter enable alarm sound frame as follows:



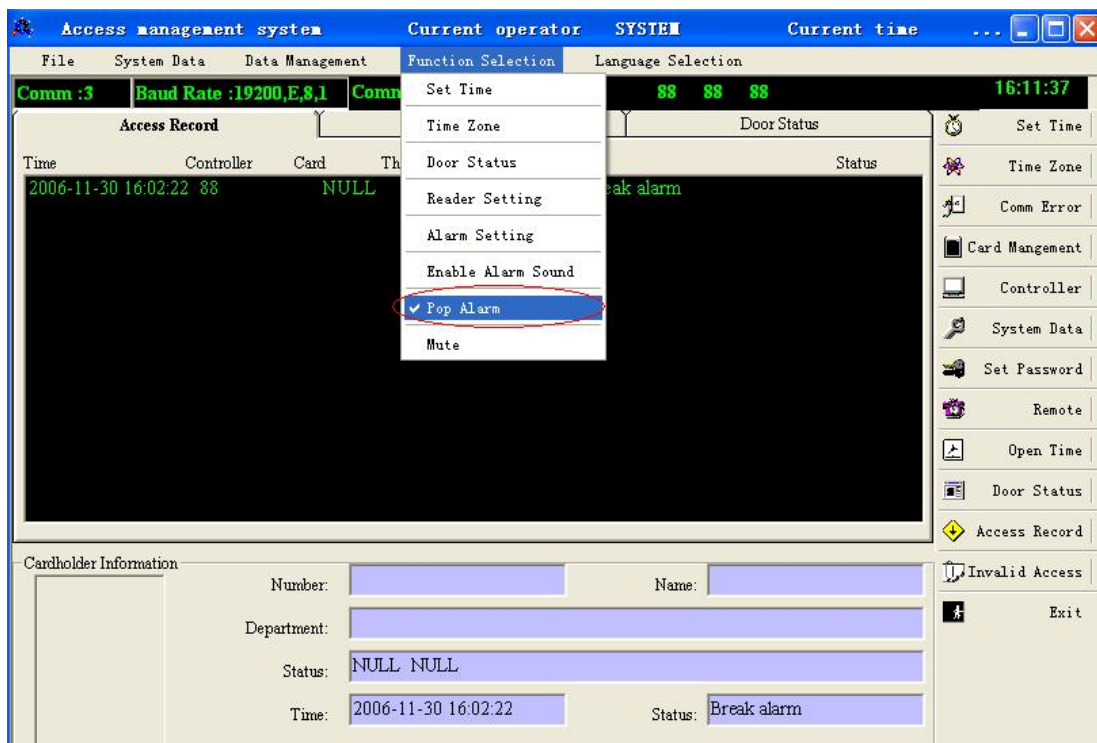
There are three types of voices for selection, please click  to select your preferable sound,

click  to test the selected sound.

This function is available after the “Enable” is selected, or it will not work, and insure you sound card is not working by other program. Click “OK” to save your setting, or click “Cancel” to exit.

### Pop Alarm enable

Click “Pop Alarm” in the “Function Selection” of the menu, as follows:



When alarm happens, the pop frame will arise:

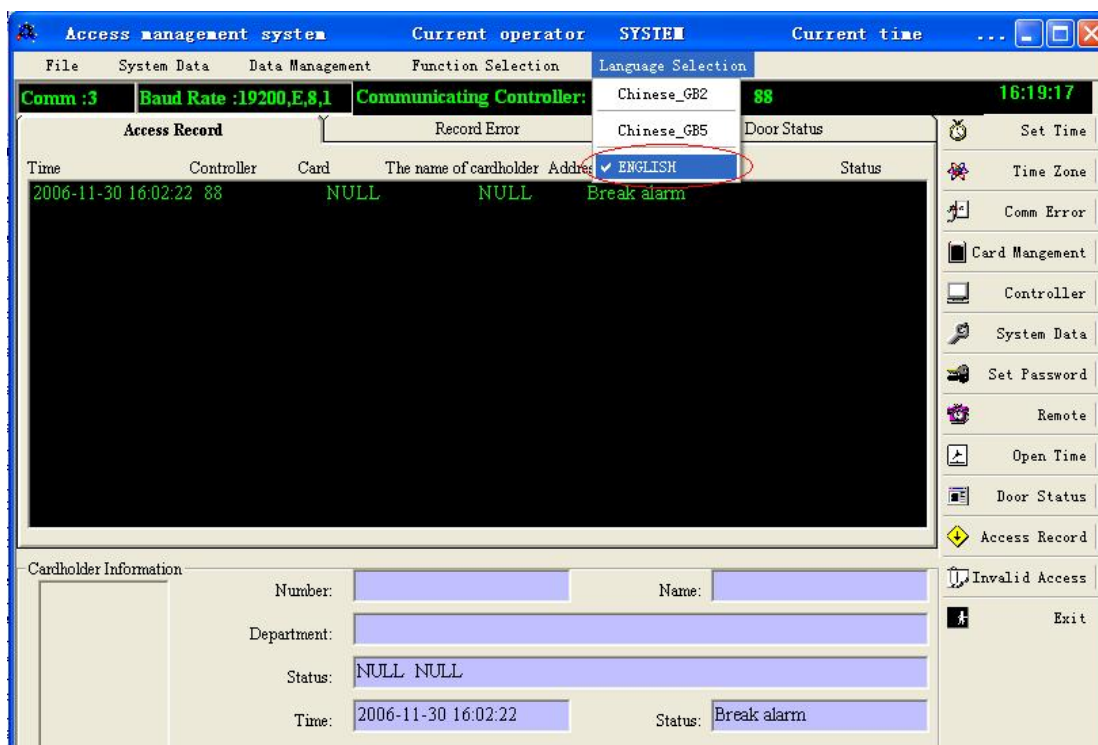


### Mute

Click "Mute" in "function selection" of the menu or click "Mute" on the pop frame as above.

## Language Selection

Support Simple Chinese, Traditional Chinese and English, please select it by the menu as follows:



## Solutions for abnormities

1. Connected with PC fail: please check the two wires of RS485, insure it is right.
2. Card reading fail: please re-set the controllers' time.
3. Card reading, but the door can not be open: please confirm this card's time zone and time segment settings.
4. No response after reading card, but the indicating LED lighting: please re-power the controller.
5. Others problem, please contact us.

## Contacts

If you encounter any problems when using our products, and cannot solve them by yourself, please contact our technical support team by writing an E-Mail to [info@nodactechnology.com](mailto:info@nodactechnology.com). We will be pleased to help you.