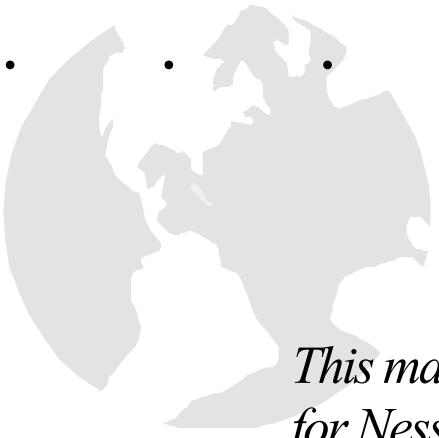
Access Control Products

NETEYE
LAN Communication
USERS MANUAL

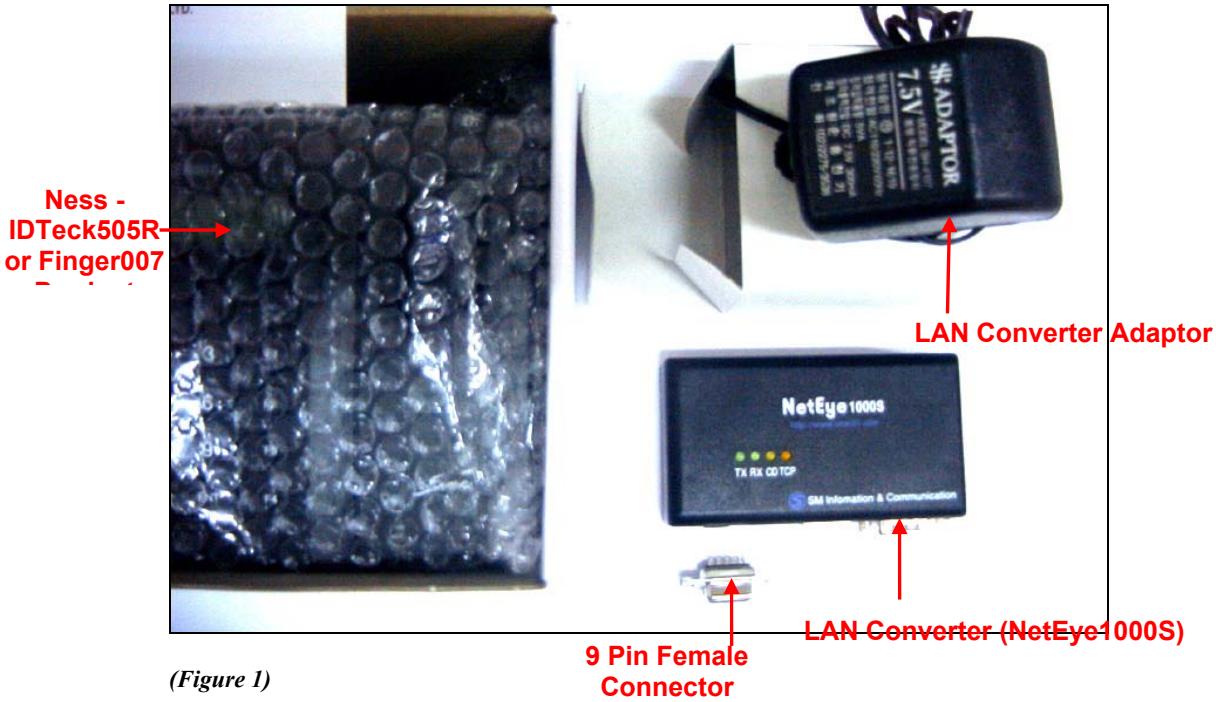


This manual introduces LAN Communication for Ness – IDTeck 505R and Finger007.

Table of Contents

CHECK ITEMS

Using the LAN converter with the (Finger007, 505R, or ICON100) will receive the following items as shown below (Figure. 1). This manual is written standard for the Finger007, as well as for the 505R application. In case of the ICON100, the configuration is very similar, and a H/W manual will be referred along with the above manual.



(Figure 1)

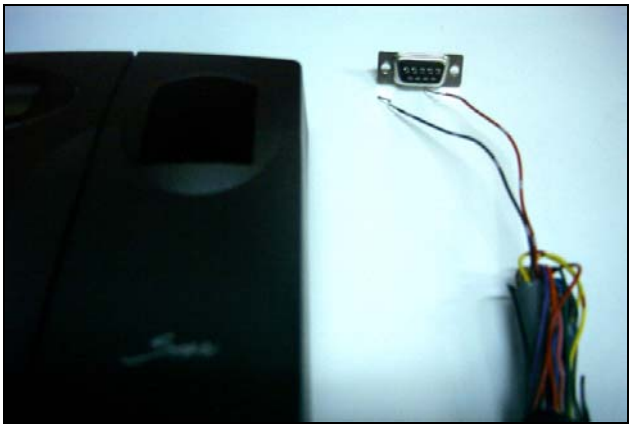
1) Item (Finger007, 505R, or ICON100)
2) LAN converter (NetEye1000S)
3) LAN converter adapter
4) 9 Pin Female Connector

CONNECTION via RS232

NESS - IDTECK505R, FINGER007 AND 9 PIN CONNECTOR WIRE TABLE

NESS - IDTECK505R,FINGER007 WIRE	9 PIN CONNECTOR PIN CONNECTION
Black wire with White stripe(TXD)	Pin No 2 (RXD)
Red wire with White stripe(RXD)	Pin No 3 (TXD)
Black Wire(-)	Pin No 5 (GRD)

1. As shown below (Figure 2), use the 2 wires (black w/white stripe and red w/white stripe) to attach to the 9 pin connector. You will need to obtain a separate ground wire for this setup. (not included)



(Figure 2)

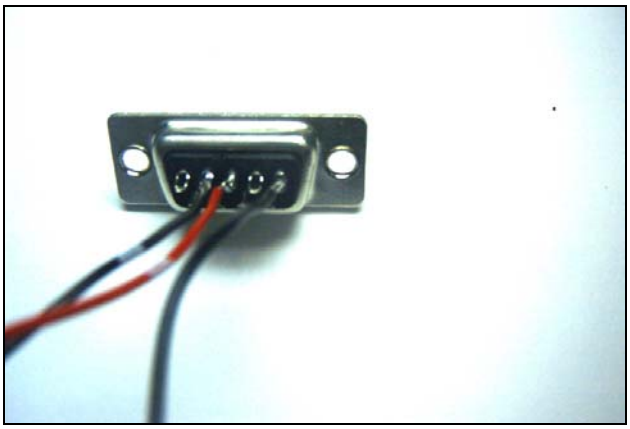
2. As shown below (Figure 3) connect the separate ground wire to #5 on the 9 pin connector. (This is the wire you obtained separately) grounding wire is for the (-) negative connection.

(Figure 3)

3. As shown below (Figure 4) connect the black w/white stripe wire (Finger007 or 505R) to #2 on the 9 pin connector.

(Figure 4)

4. As shown below (Figure 5) connect the red w/white stripe wire (Finger007 or 505R) to #3 on the 9 pin connector.



(Figure 5)

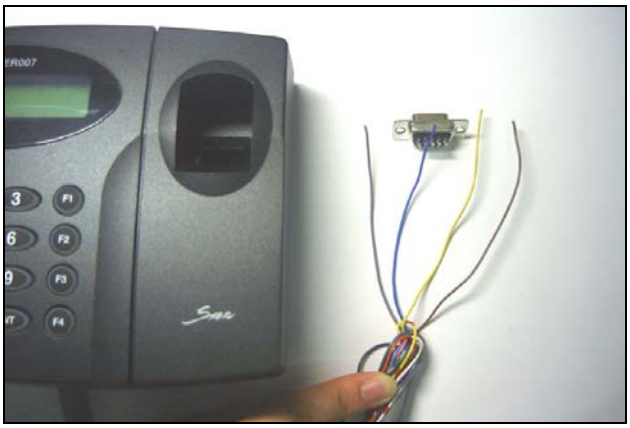
Once the connection is finished, move on to the **LAN converter setup** section.

CONNECTION via RS422

NESS - IDTECK505R, FINGER007 AND 9 PIN CONNECTOR WIRE TABLE

NESS - IDTECK505R,FINGER007 WIRE	9 PIN CONNECTOR PIN CONNECTION
Grey wire(TX+)	Pin No 2 (RX+)
Brown wire(RX+)	Pin No 3 (TX+)
Yellow wire(TX-)	Pin No 7 (RX-)
Blue wire(RX-)	Pin No 8 (TX-)

1. As shown below (Figure 6), use the grey, blue, yellow, and brown wire to connect to the 9 pin connector.

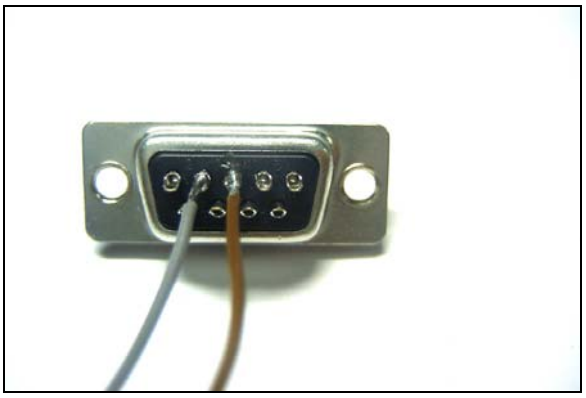


(Figure 6)

2. As shown below (Figure 7) connect the grey wire to #2 on the 9 pin connector.

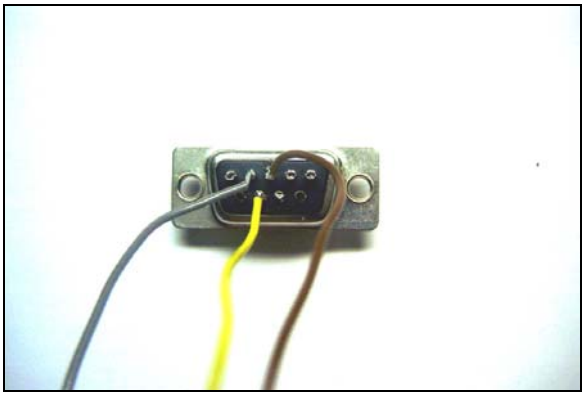
(Figure 7)

3. As shown below (Figure 8) connect the brown wire to #3 on the 9 pin connector.



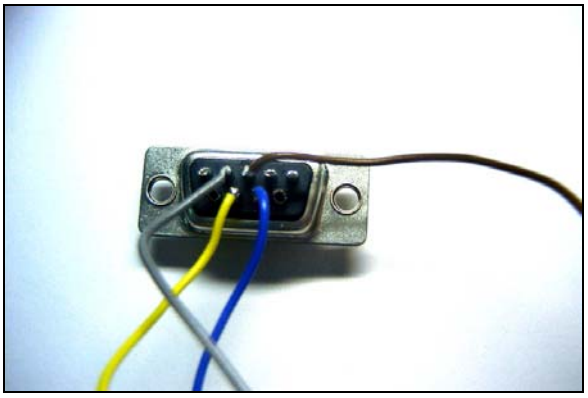
(Figure 8)

4. As shown below (Figure 9) connect the yellow wire to #7 on the 9 pin connector.



(Figure 9)

5. As shown below (Figure 10) connect the blue wire to #8 on the 9 pin connector.



(Figure 10)

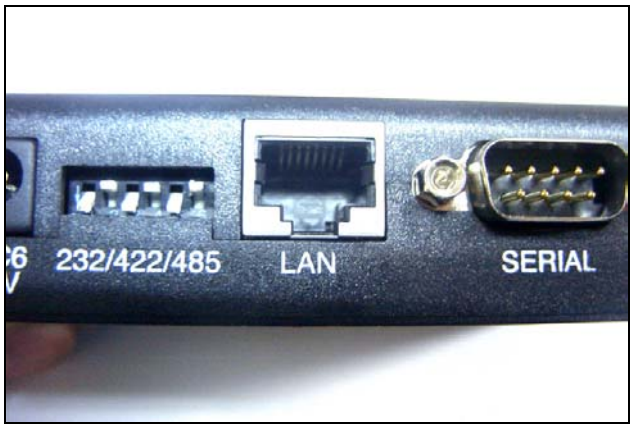
Once the connection is finished, move on to the **LAN converter setup** section.

LAN CONVERTER SETUP

- **Switch Setup**

A. Connection via RS232

Connection via RS232 will require the following Piano Switch setup as shown below (Figure 11) and table.

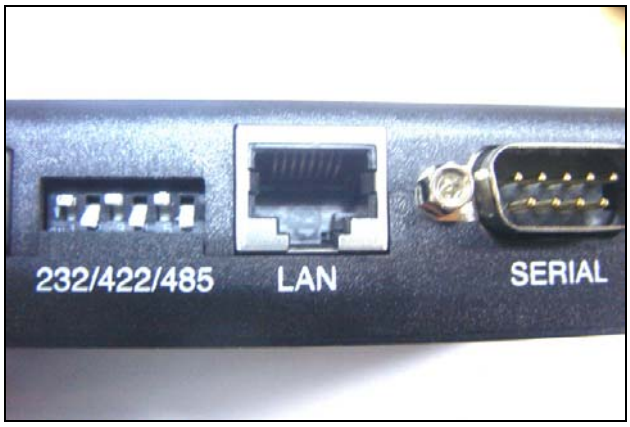


(Figure 11)

SWITCH NO	SWITCH STATUS
1	On(Down)
2	Off(Up)
3	On(Down)
4	Off(Up)
5	On(Down)
6	Off(Up)

B. Connection via RS422

Connection via RS422 will require the following Piano Switch setup as shown below (Figure 12) and table.

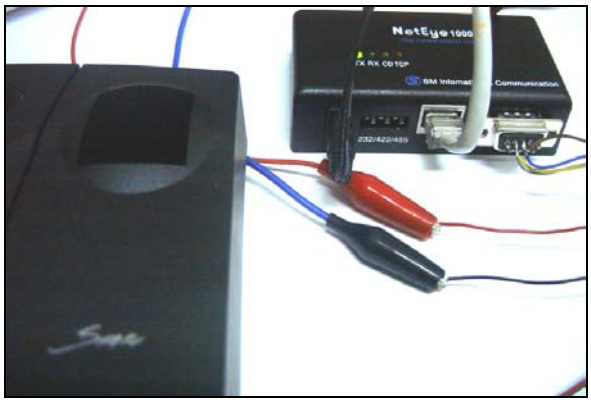


(Figure 12)

SWITCH NO	SWITCH STATUS
1	Off(Up)
2	On(Down)
3	Off(Up)
4	On(Down)
5	Off(Up)
6	On(Down)

Once the switch setup is completed, connect the power adapter, Ethernet (RJ45), and 9in connector to the LAN converter.

The picture shown below (Figure 13) is all the wiring completed with the (+) Red wire and (-) Black wire connection for power to (Finger007, 505R).



(Figure 13)

- **LAN Converter IP Setup (NetEye1000S Setup Program Use)**

CD is provided for LAN converter IP setup and checking communication activity. The application program is installed for the IP setup from the PC to LAN converter

A. Setup Program Install

I. To begin installation, find the NetEye1000_Setup.exe in the CD and click on it.

II. As shown below (Figure 14) begin installation. Click "Next" button to move to next step.

(Figure 14)

III. As shown below (Fig. 15) find the folder to install into and click "Install" button to Ness - IDTeckt installation.

(Figure 15)

IV. As shown below (Figure 16) installation begins and will be completed in a few moments. Click "OK" to complete the installation.

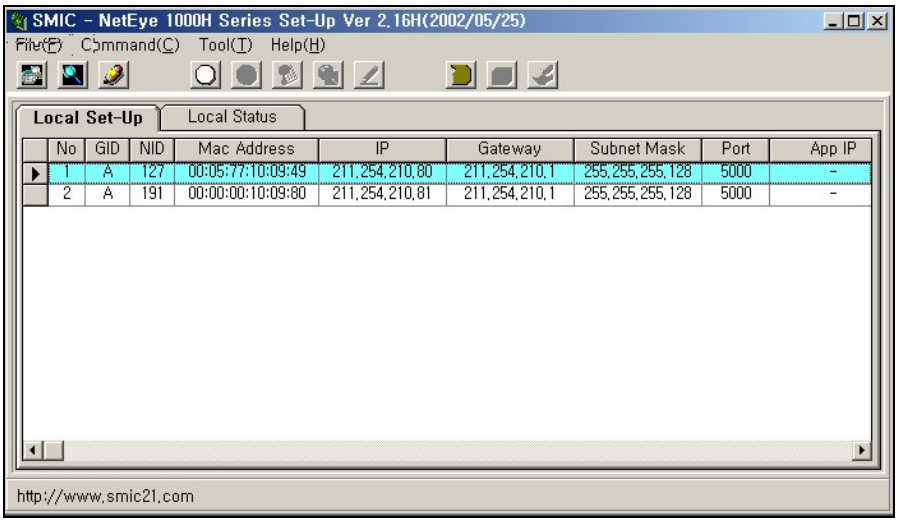
(Figure 16)

B. Setting Up IP with Setup Program

Upon program install completion, click on Ness - IDTeckt button, scroll to Program then to NetEye1000 to Ness - IDTeckt the program.

Once the program Ness - IDTeckts as shown below (Figure 17), all the LAN converters' information connected to the same network is displayed.

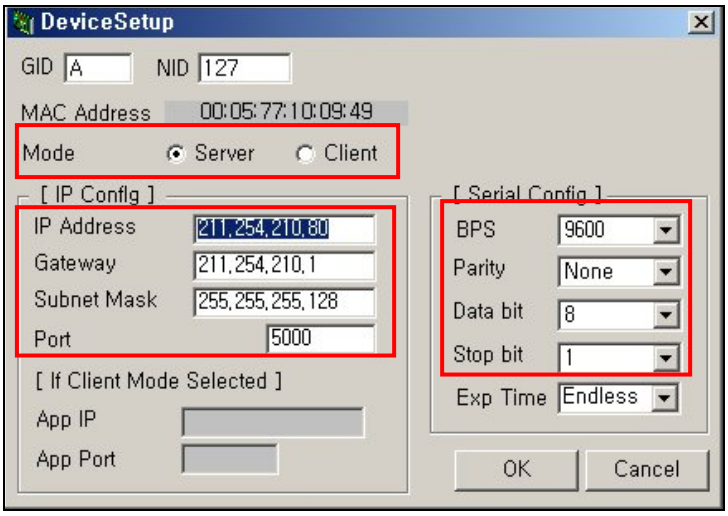
The following displays 2 LAN converters connected to the same network.



(Figure 17)

As shown below (Figure 18) each LAN converter needs to setup the IP, Gateway, Subnet Mask, and Port.

From display (Figure 17) clicking twice on the highlighted LAN converter to setup will popup setup screen below (Figure 18).



(Figure 18)

User needs to setup category (Mode, IP address, Gateway, Subnet Mask, Port, BPS, parity, Data bit, and Stop bit).

ITEM	VALUE

Mode	Server
IP Address	IP address given by Network (No able to be duplicated)
Gateway	Value given by Network
Subnet Mask	Value given by Network
Port	5000
BPS	9600
Parity	None
Data bit	8
Stop bit	1

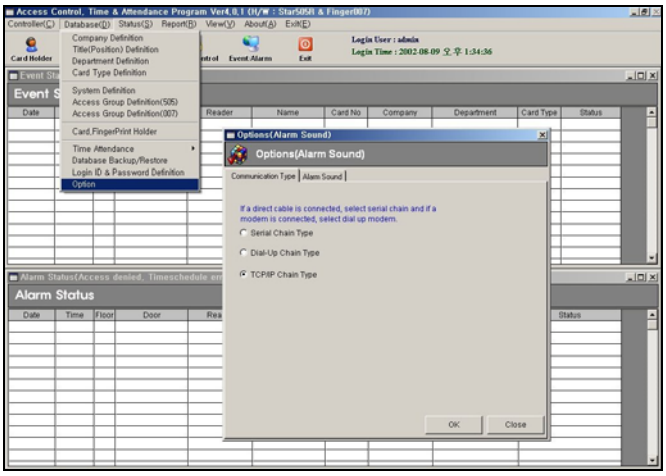
SOFTWARE SETUP

From the provided CD install the program. (Refer to provided Software Manual for installation procedure).

Once installation is complete, click on Ness - IDTeckt button, scroll to Program then to Ness - IDTeck505R, Finger007Ver4.0 (English) to Ness - IDTeckt the program

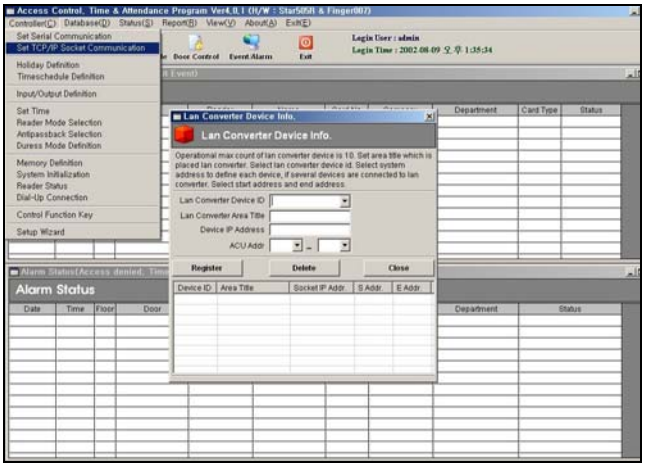
From the Login screen, input “Admin”. Password is not needed for Login.

As shown below (Figure 19) click on Database, then scroll to Option. From Option menu, select TCP/IP Chain Type as Communication Type, then click OK to save.



(Figure 19)

As shown below (Figure 20), click on Controller, scroll to Set TCP/IP Socket Communication.



(Figure 20)

On the LAN converter Device Info (Figure 21), follow the instructions below to setup.

(Figure 21)

Select the LAN converter Device ID. (The maximum number of LAN converters able to connect to the same network is 10 units. One LAN converter's maximum connectivity is 32 units.)

In case of **one LAN converter set the Device ID** as '0', with two units set it as '0' and '1'. It is used to identify the LAN converters, so increase the value with the LAN converters in use.

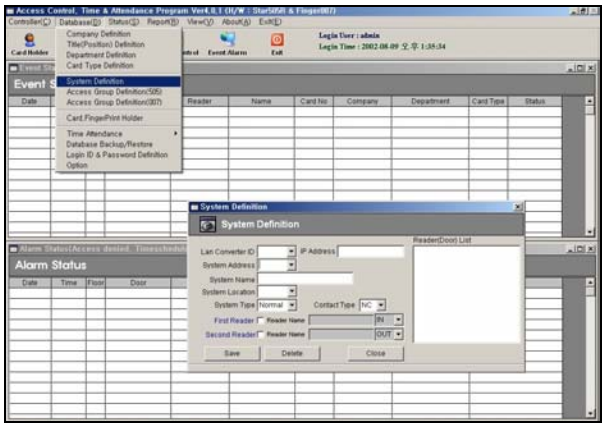
Input **LAN converter Area Title** as location of LAN converter installed. Also, the device operating the area connected to the LAN converter can be inputted as optional.

Input **Device IP Address** as same IP value setup in NetEye1000S program.

Input **ACU Addr** as the Ness - IDTeckt and finish address of the units connected to the LAN converter. (When using one LAN converter with one device as RS232, one device is connected. When using RS422, a maximum of 32 devices can be connected for use).

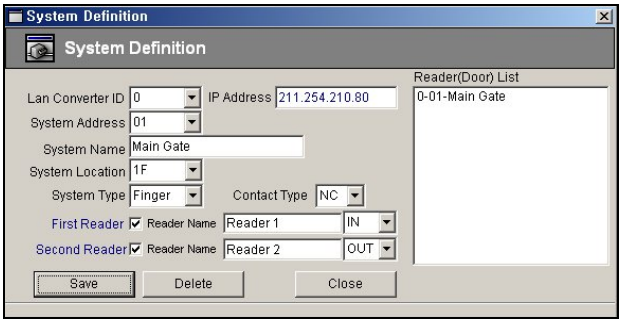
Click on **Register** button to save the related information, then click on **Close** button to close

As shown below (Figure 22) click on Database, scroll to System Definition.



(Figure 22)

As shown below (Figure 23), follow the instructions below to setup.



(Figure 23)

Select the **LAN converter ID** value setup in LAN converter Device Info. Setup **IP Address** value is shown in the right side IP Address (Figure 23).

Select the **System Address** correlating to the LAN converter Device ID connected to the System Address.

Input **System Name**.

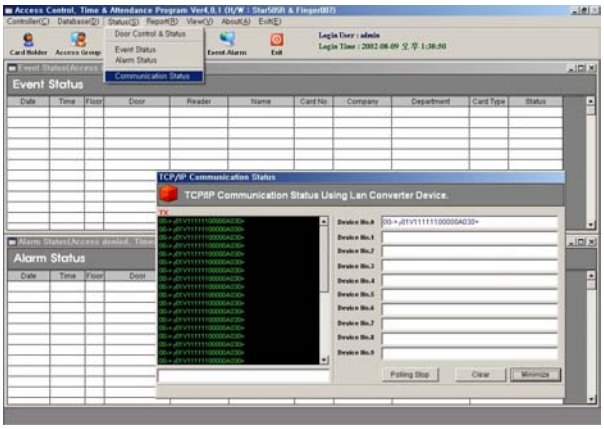
Select **System Location**.

For **System Type**, select Normal for 505R and Finger for Finger007.

Select **First Reader, Second Reader** and input related information.

When above procedures are completed, close the program then reNess - IDTeckt. After reNess - IDTeckt, if all related setup is correct, you can check communication status.

As shown below (Figure 24) click on Status, scroll to **Communication Status** to display communication status. If communication is successful, it will display as (Figure 24).



(Figure 24)