

ISC-401



User Manual
Version 1.00 2014.01.



IDENTIFICATION DEVICE TECHNOLOGY, INC.

<http://www.idti.co.kr>



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WARNING!



- 15.19:

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.

- 15.21:

The user manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

- NOTE: THE GRANTEE IS NOT RESPONSIBLE FOR ANY CHANGES OR MODIFICATIONS NOT
- EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.



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All Products sold to Dealer hereunder shall be subject to IDTi standard warranty for the Product included with the Product by IDTi (“Product Warranty”). The Product Warranty shall be extended to end user purchasers of the Products from Dealer who purchases such Products within twelve (12) months of the date the Products are shipped to Dealer. Provided within the aforementioned time period, the warranty period for a Product shall commence upon the date stated in the Product Warranty. Dealer shall not extend any warranty regarding the Products other than IDTi then standard warranty. The limited warranty statement included in the Product Warranty is the exclusive statement of the controlling terms and conditions of the limited warranties on the Products. Nothing in this Agreement or any other written document or any oral communications with Dealer or other parties may alter the terms and conditions of the Product Warranty. IDTi may, in its sole discretion, revise its limited warranties from time to time, however; no change in limited warranties will affect Product orders already accepted by IDTi. Dealer agrees to only pass on to Dealer’s end-users IDTi limited warranties and Dealer will be liable for any greater warranty that Dealer purposely or inadvertently transfers to end-users. Dealer will indemnify, defend and hold IDTi harmless for any damages or other costs that arise because of Dealer’s failure to properly inform Dealer’s end-users of current limited warranties.

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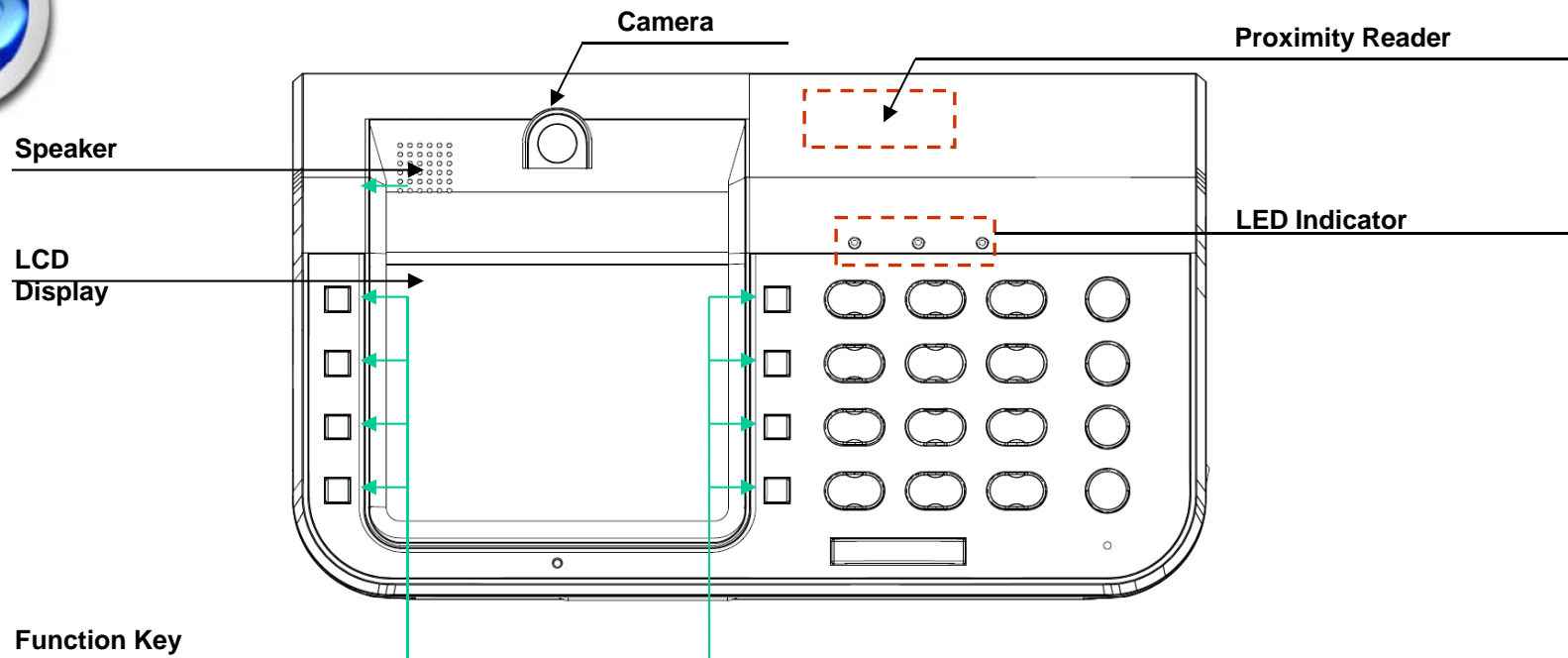


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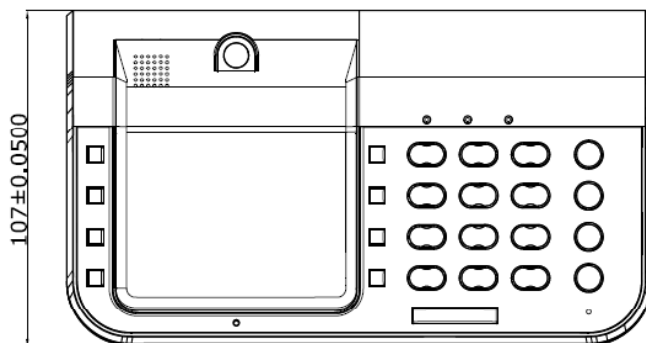
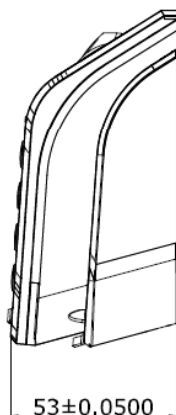
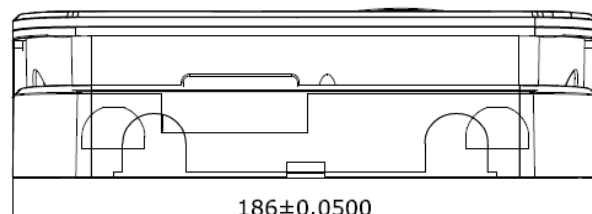
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ISC-401 (Layout)



ISC-401 (SPECIFICATION)

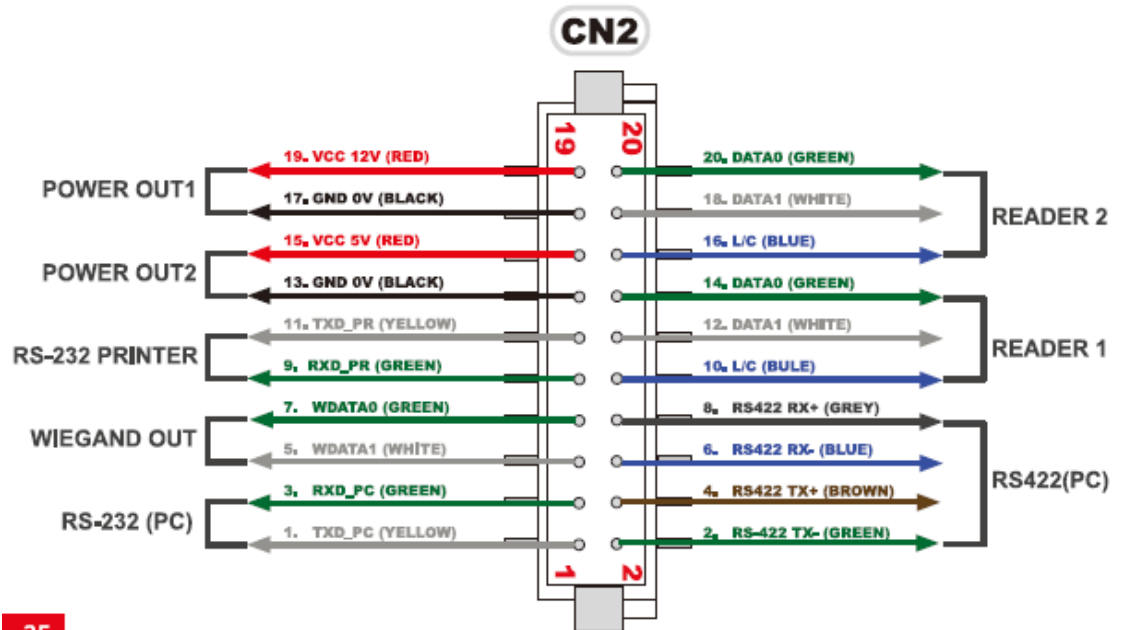
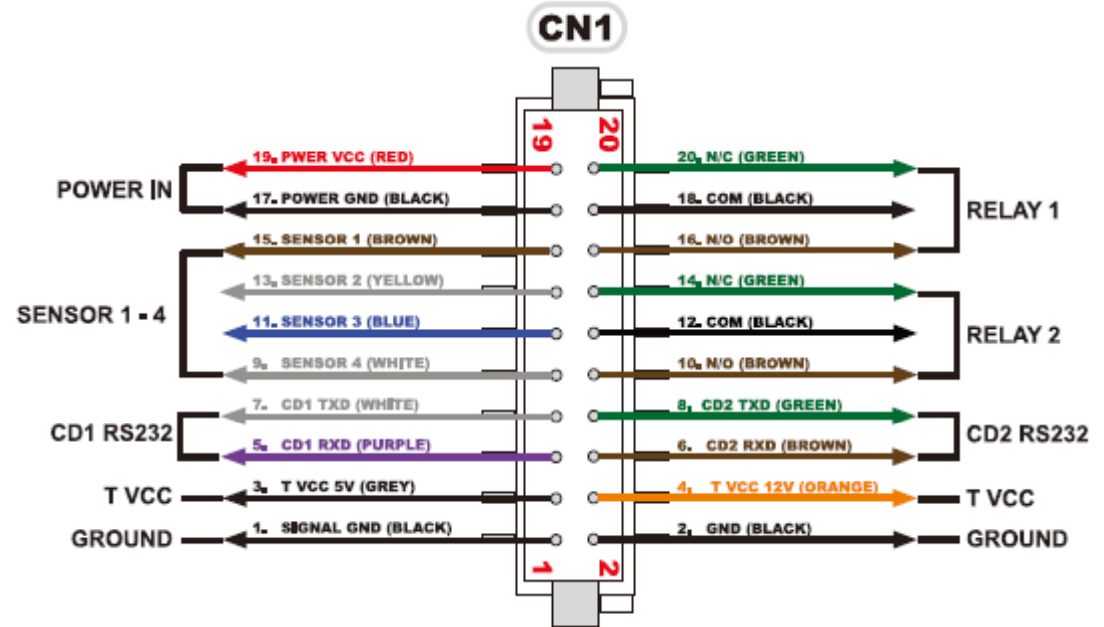
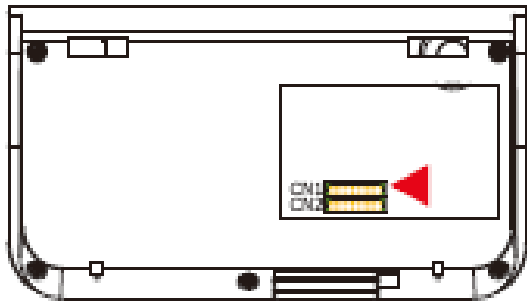


ISC-401 Specification

- ▶ USER : 131,072
- ▶ Log Data : 1,000,000 (Upto 2,000,000)
Log Image : 10,000 Upto 20,000
- ▶ Time Zone : Controller:1024,
Reader Per 1024
- ▶ Holiday : 365
- ▶ User Level : 254
- ▶ User Group : 1024

- ▶ FAR = 0.00008 %
- ▶ FRR = 0.09 %
- ▶ CPU :
ARM11 32bit,
ARM 32-bit Cortex™-M3 CPU
- ▶ POWER : 12V DC 1A
- ▶ SIZE :
- H107 X W186 X D53mm
- ▶ Temperature : -10°C~50°C
- ▶ Humidity : 10%~90%
- ▶ RF Card : ~10 cm
- ▶ Communication : RS-232 , TCP/IP,
Option RS-422(1.2 Km),
- ▶ IN/OUT : 4 In / 2 Out
- ▶ Material : ABS (Polycarbonate)

Connector Layout






ENTERING THE SYSTEM MENU

When the reader is powered on with no fingerprint templates enrolled in the unit, anyone can enter the system menu by pressing the F1/p key. If you are enrolling the first administrator card via the reader's keypad, you must first determine the 1~16 digit PIN that the administrator will use. Once this PIN is determined, the administrator must be present to enroll their card into the reader. Note that this operation is not valid if there are administrator card in the reader.

If Administrator has been enrolled



1. Press F1/P key to enter system mode.

Press  to enter system mode



2. Key in administrator ID followed by the # key Input fingerprint or Card

3. Present either finger or card which ever administrator has been enrolled with. For now we will use the fingerprint.

4. Now you're into system mode.
Press F1 key to scroll up the main menu
Press F2 key to scroll down the main menu

If no Administrator has been enrolled



1. Press F1/P key to enter system mode

2. Now you're into system mode.
Press F1 key to scroll up the main menu
Press F2 key to scroll down the main menu

Main Menu List



F1/P+

- 'F1/P' or 'F2' Key '#' Key.
or Touch Screen

F2/↓



CHAPTER 1

USER MANAGEMENT

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User Enroll

This command is used to add typical fingerprint only users to the reader so that they will be able to gain entry to the location guarded by the reader. The system has an option to enroll either 2 or 4 templates per user. The following key sequence performs this action:



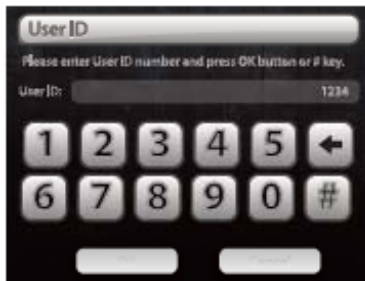
1. Press F1/P key to enter system mode.

Press **PRO** to enter system mode



2. Press '#' Key USER MEMAGEMENT Select.

3. Press F1/P(UP) or F2 Key Add-menu Select or Press LCD Icon



4. Key in user ID from 1 to 16 digits as shown in next figure

5. Key in user ID followed by the # key



6. System has an option to enroll 1~4 fingerprint templates per each user. For now we will select number 1~4 key by enrolling 1~4 templates



Enroll Fingerprint



Enroll Card



7. Present first finger to the scanner. Remove the fingerprint when the red light turns off. You can either enroll same fingerprint or different fingerprint after the first. Repeat this process until the last fingerprint



8. Enroll completed. Press the # key to continue enrolling another user fingerprint or press any others to exit off the sub-menu



NOTE :

There are 2 levels of administration,

1. USER (Level 1) - Corresponds to an ordinary user. They may verify, but are not allowed to access any administrative functions.
2. ADMIN (Level 4) - This is an system administrator level and has full rights to configure the reader.

Edit User

This command is used to edit existing users ID by accessing the user ID. When editing, Administrators have the ability to make changes to user ID only in this menu.



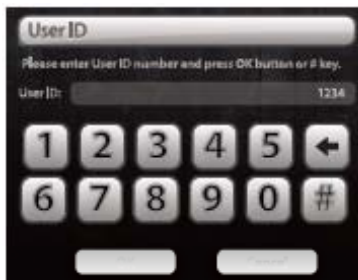
1. Press F1/P key to enter system mode.

Press **PRO** to enter system mode



2. Press '#' Key USER MEMAGEMENT Select.

3. Press F1/P(UP) or F2 Key Edit-menu Select or Press LCD Icon



4. Key in user ID from 1 to 16 digits as shown in next figure

5. Key in user ID followed by the # key



6. System has an option to enroll 1~4 fingerprint templates per each user. For now we will select number 1~4 key by enrolling 1~4 templates



7. Present first finger to the scanner. Remove the fingerprint when the red light turns off. You can either enroll same fingerprint or different fingerprint after the first. Repeat this process until the last fingerprint



8. Enroll completed. Press the # key to continue enrolling another user fingerprint or press any others to exit off the sub-menu

Delete User


Deleting a fingerprint template from a reader will prevent that template from being granted access to the location via the reader. Any fingerprint template can be removed from a fingerprint reader, including administrative and the last remaining fingerprint template on the reader. Templates can be deleted by a single user or all users including administrative templates.

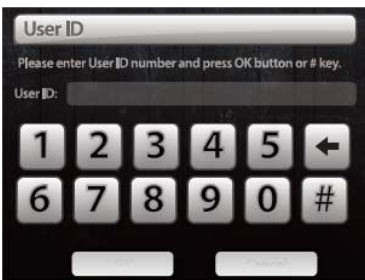
Deleting a all user will erase all template from a reader, including administrative and the last remaining fingerprint template on the reader.



1. Press F1/P key to enter system mode.
Press **PRO** to enter system mode
2. Press '#' Key USER MEMAGEMENT Select.



3. Press F1/P(UP) or F2 Key Delete-menu Select or Press LCD  Icon




4. Key in user ID from 1 to 16 digits as shown in next figure
5. Key in user ID followed by the # key



1. Press F1/P key to enter system mode.
Press **PRO** to enter system mode
2. Press '#' Key USER MEMAGEMENT Select.



3. Press F1/P(UP) or F2 Key Delete All-menu Select or Press LCD  Icon



4. Press 'OK' or Press the # key to confirm delete all
Press any other key to cancel

View User

At any time, you can view a list of all users of the system. The list can be an overall enrollment list of all users in the system, or it can be a list of the individual users that are physically enrolled on any individual fingerprint reader.




1. Press F1/P key to enter system mode.

Press **PRO** to enter system mode



2. Press '#' Key USER MEMAGEMENT Select.

3. Press F1/P(UP) or F2 Key View-menu Select or Press LCD  Icon



4. View Enrolled User / Total User.

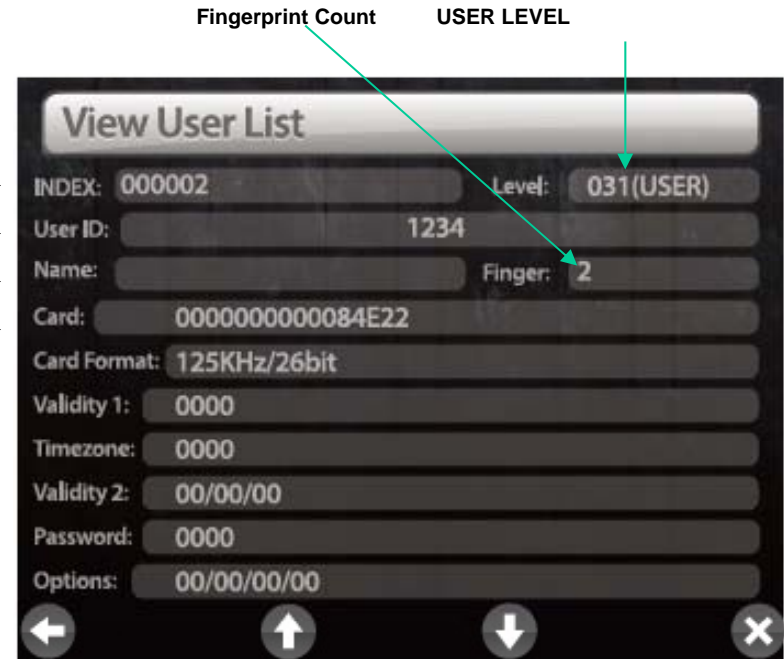
5. Press F1(UP) or F2(DN) Key.

Memory Index

User Id

User Name

Card Number





CHAPTER 2

DEVICE SETTING

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System setup



1. Press F1/P key to enter system mode.

Press **PRO** to enter system mode

2. Press '#' Key TERMINAL Select



3. Press F1/P(UP) or F2 Key or Press Touch LCD Menu Select

ADDRESS

1. LOCAL ADDRESS : 1~32
2. SYSTEM ADDRESS : 0~65535

TIME

System Time Setup

SYSTEM MODE

Device Access Mode Setup

- CARD / FINGER
- CARD/ ID&FINGER
- ID&CARD&FINGER
- ID / CARD/ FINGER
- FINGER(ID&FINGER)
- ID&FINGER
- CARD&FINGER
- ID&FINGER ID&CARD
- ID&FINGER CARD&FINGER
- ID&CARD CARD&FINGER
- ID / CARD
- ID&CARD
- CARD
- OPEN
- CLOSE

SYSTEM RESET

RELOCK TIME

Lock Time Setup
1~99 Sec

OPTION : Access Option Setup

- ANTIPASS BACK
- KEY SECURE
- LOCK DOWN
- FUNCTION KEY
- DAY DISPLAY TYPE
- DURESS

LANGUAGE : Display Language Setup



Log



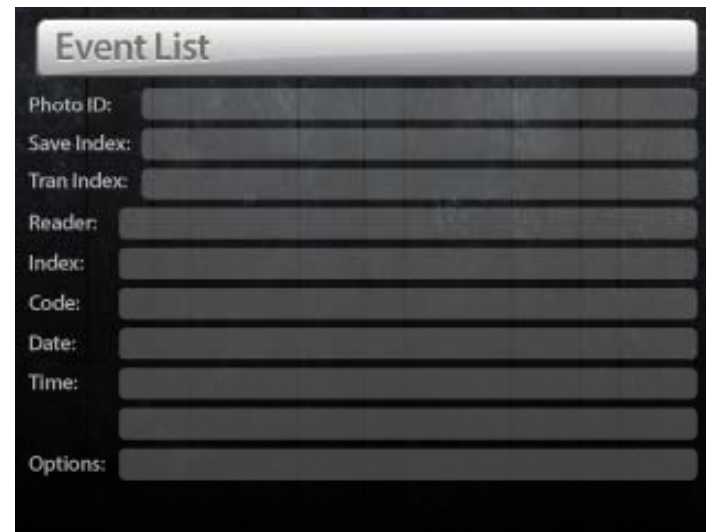
1. Press F1/P key to enter system mode.
Press **PRO** to enter system mode

2. Press '#' Key SYSTEM LOG Select



3. Press F1/P(UP) or F2 Key or Press Touch LCD Menu Select

LOG VIEW

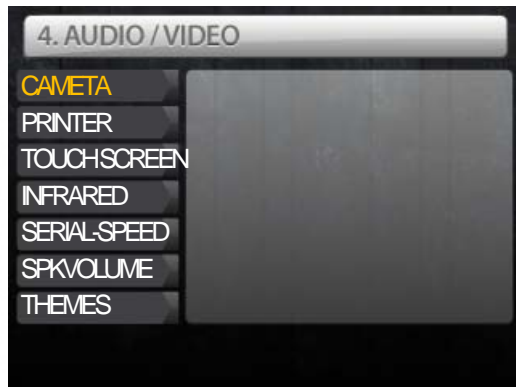


INDEX CHANGE


LOG FORMAT

PHOTO FORMAT

AUDIO/VIDEO



1. Press F1/P key to enter system mode.

Press  to enter system mode

2. Press '#' Key AUDIO/VIDEO Select



3. Press F1/P(UP) or F2 Key or Press Touch LCD Menu Select

CAMETA

- CAMERA ENABLE/DISABLE
- EVENT MODE ENABLE/DISABLE
- BRIGHTNESS
- ANGLE
- FRAME RETE
- DENIED SAVE

PRINTER

TOUCH SCREEN

- TOUCH Calibration

INFRARED

- INFRARED ENABLE/DISABLE
- FINGER MODE
- DETECT LEVEL

SERIAL-SPEED

- PC
- PRINTER
- EXTERNAL 1
- EXTERNAL2


SPKVOLUME

THEMES

Network



1. Press F1/P key to enter system mode.

Press  to enter system mode

2. Press '#' Key NETWORK Select



3. Press F1/P(UP) or F2 Key or Press Touch LCD Menu Select

NET VIEW

NET SETUP

System can operate either as Server or Client. If set as Server then the software must be set as Client and if set as Client then the software must be set as Server.

Static/DHCP
IP Address
Gateway
Subnet mask
Port

Server IP Address
Server Port

NET SPEED

- 0: Auto-negotiation enable with all capabilities
- 1: Auto-negotiation with 100 BASE-TX FDX/HDX ability
- 2: Auto-negotiation with 10 BASE-T FDX/HDX ability
- 3: REV(0-Auto-negotiation enable with all capabilities)
- 4: Manual selection of 100 BASE-TX FDX
- 5: Manual selection of 100 BASE-TX HDX
- 6: Manual selection of 10 BASE-T FDX
- 7: Manual selection of 10 BASE-T HDX


CALL SERVER

intercom PC server Setup.

INPUT / OUTPUT



1. Press F1/P key to enter system mode.

Press  to enter system mode

2. Press '#' Key INPUT/OUTPUT
Select



3. Press F1/P(UP) or F2 Key or Press
Touch LCD Menu Select

SENSOR

These are the sensor inputs found in device control panel that control external devices. There are 4 sensor inputs in device and all of them can be programmed to handle different types of external sensors from the system menu.

RELAY

The relay output is Normally Open (N.O.), and toggles shorted when triggered by an event, such as an authentication or ID failure. The relay can be used to send power to switched items like electric door strikes, door handles, magnetic hold locks. The alarm can be used to send signals to a alarm panel, controllers or indicators.

ALARM

There are six sensor inputs and 2 relays outputs in the system. Either one or two relays are used for the lock, depending on the configuration, and the spare relays can be used for annunciating alarms or other form of control. There is no programming function for alarms what you program is what happens when a specific alarm occurs. There are two things that can happen as a result of an alarm: an alarm may result in a message to the speaker (Buzzer).
an alarm may also cause a relay to come on (Relay).

Device has an output to activate a sounder but also equipped with relays that can be controlled from a command station, by some type of system activity. These sensor inputs & relays can allow you to perform many functions such as motion sensor or as a means of interfacing with a home automation system. Only the internal sensors will be activated unless other sensors are connected and configured in Sensor Setup. Relay must be connected to use the alarm. Refer to Relay Connector.

CARD TYPE

- 1: EM Standard 26bit Card
- 2: HID Standard 26bit Card
- 3: HID Full Binary 26bit Card
- 4: HID IDTi 34bit Card
- 5: Mifare 32bit UID Card
- 6: Mifare 34bit iClass
- 7: Mifare 34bit iClass2
- 8: Mifare 32bit UID 2
- 9: Mifare 64bit UID

WIEGAND TIME

Wiegand data output time setup

WIGAND TYPE

- 1: USER ID
- 2: USER CARD
- 3: CARD READER DIRECT OUTPUT

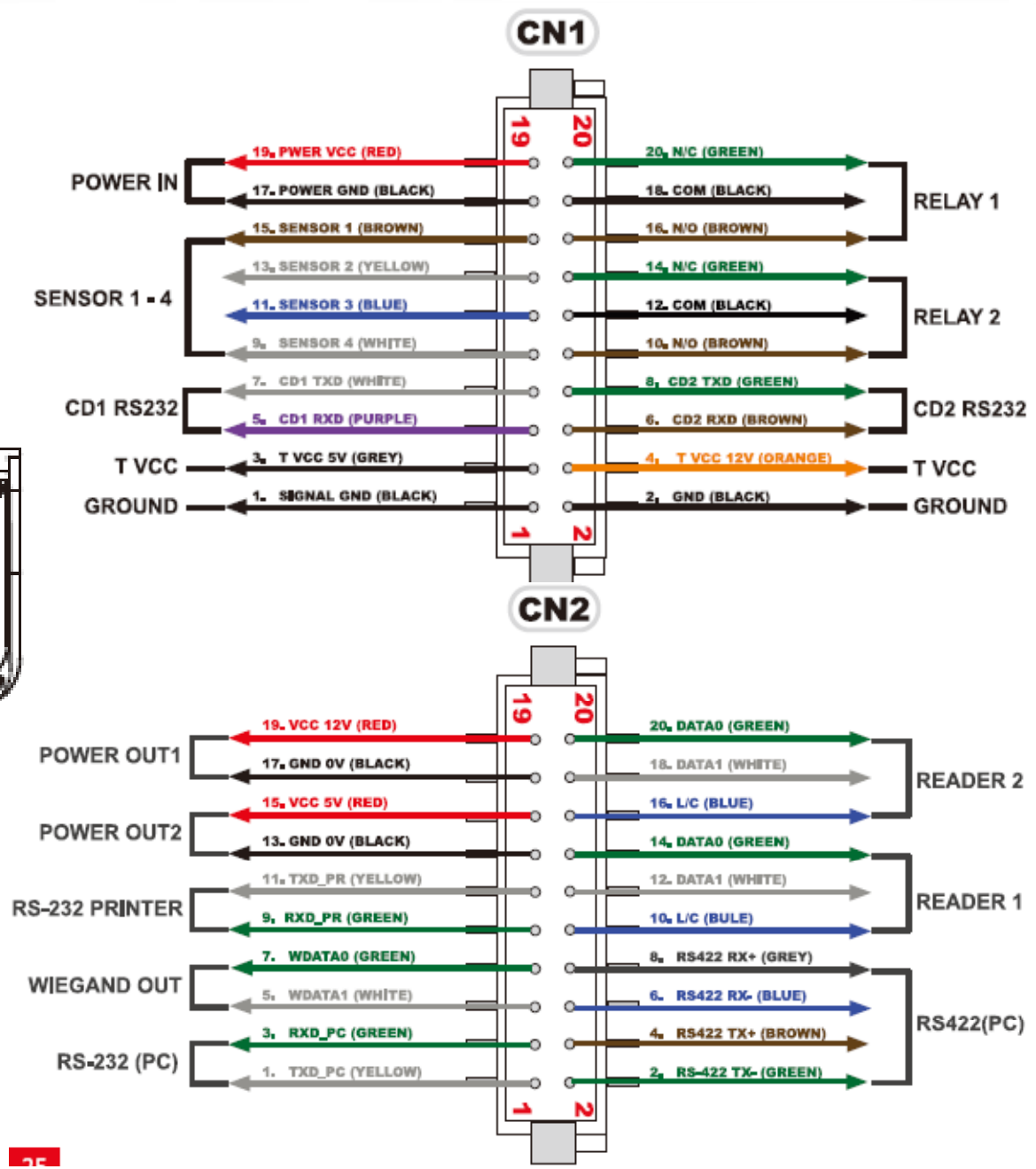
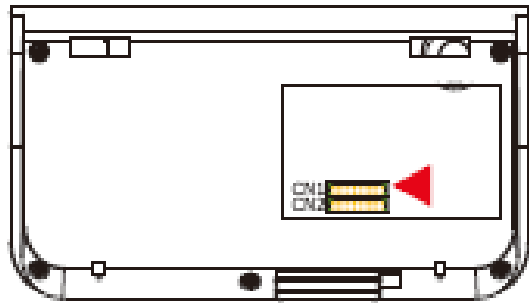


CHAPTER 3

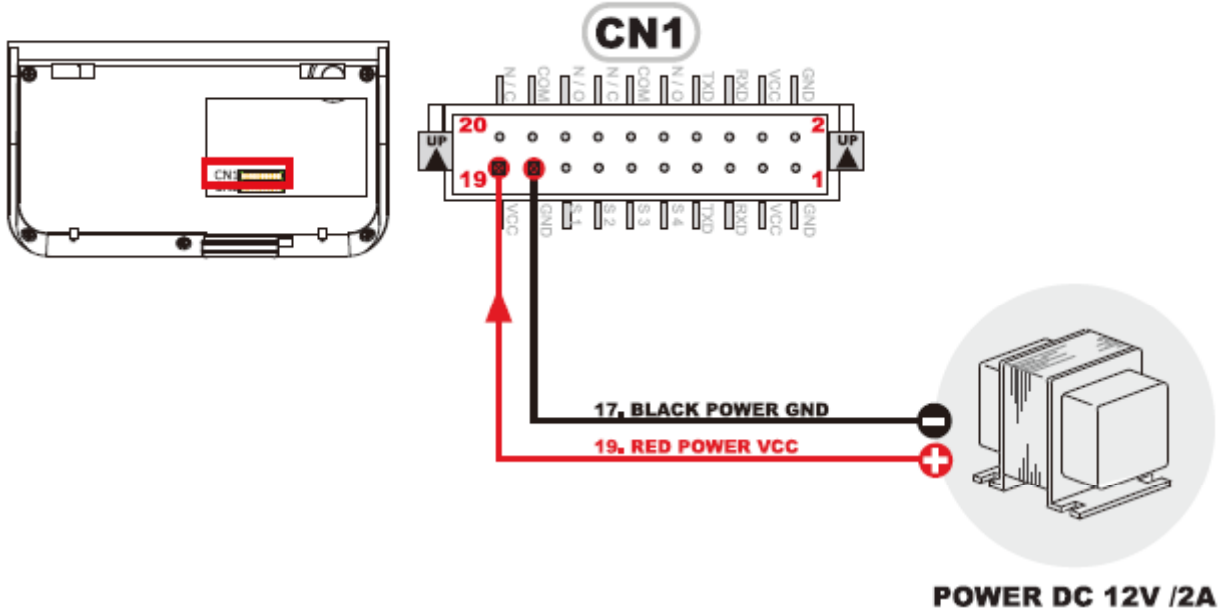
INSTALL

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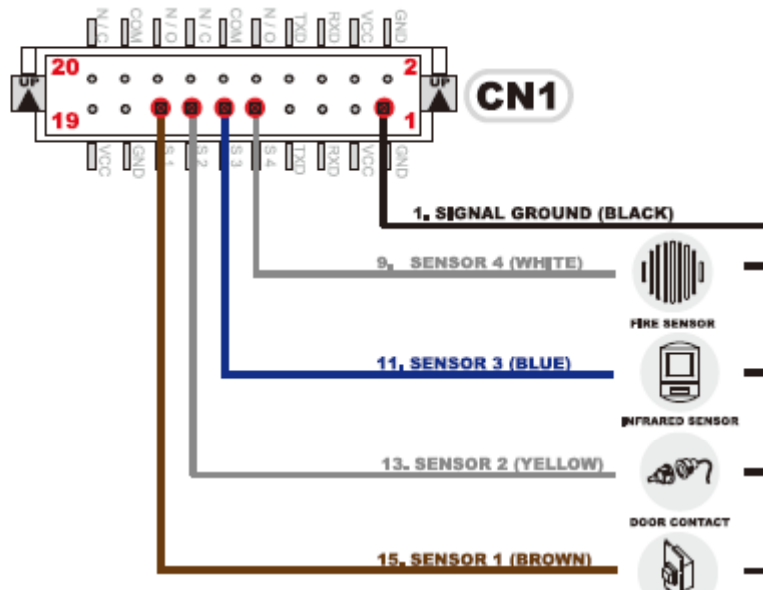
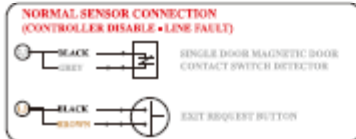
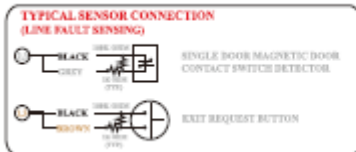
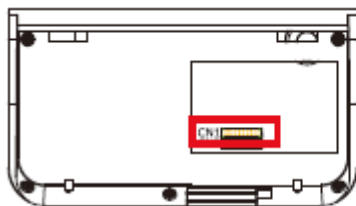
CONNECTOR LAYOUT



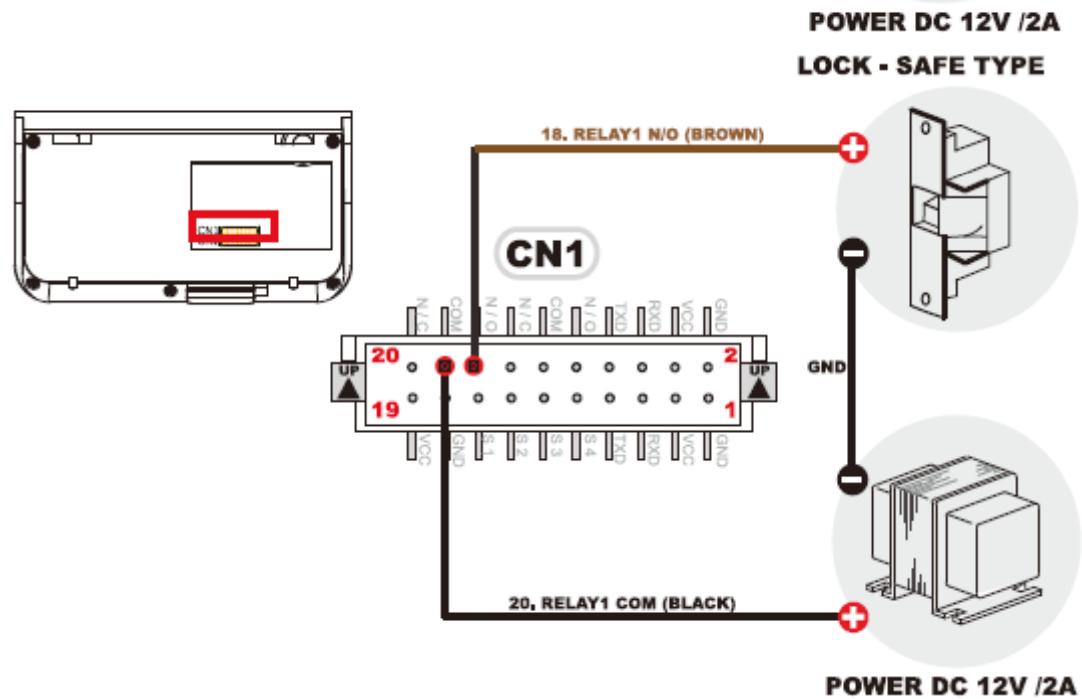
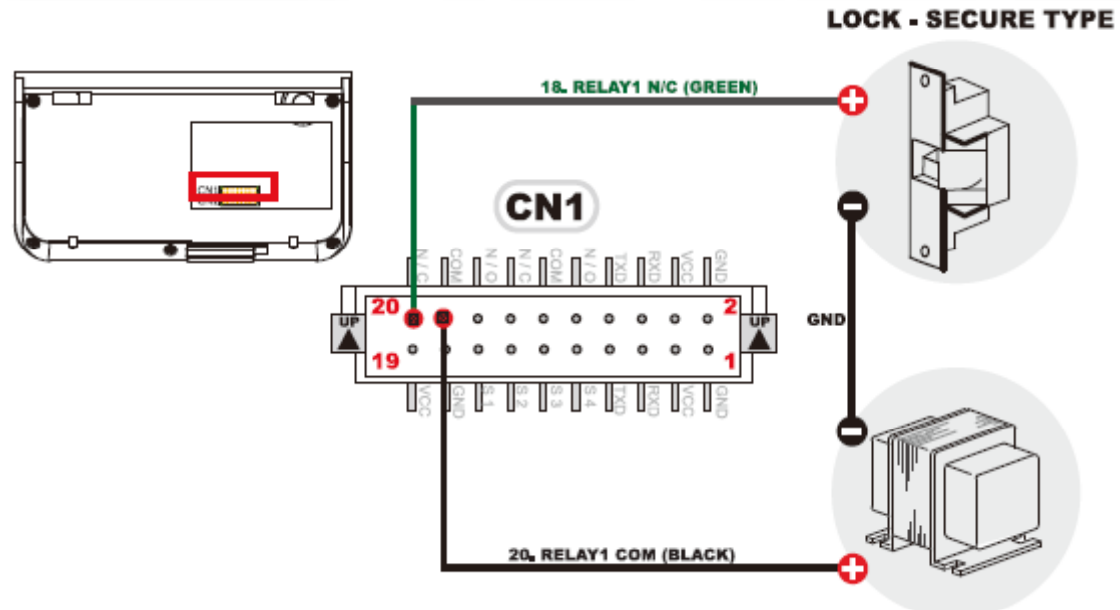
POWER CONNECTOR



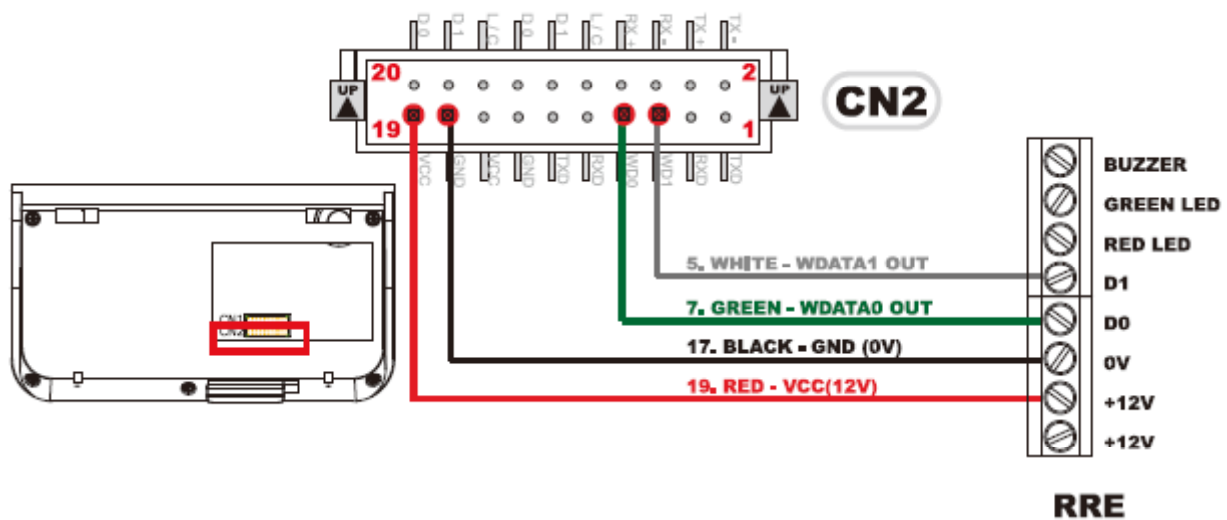
SENSOR CONNECTOR



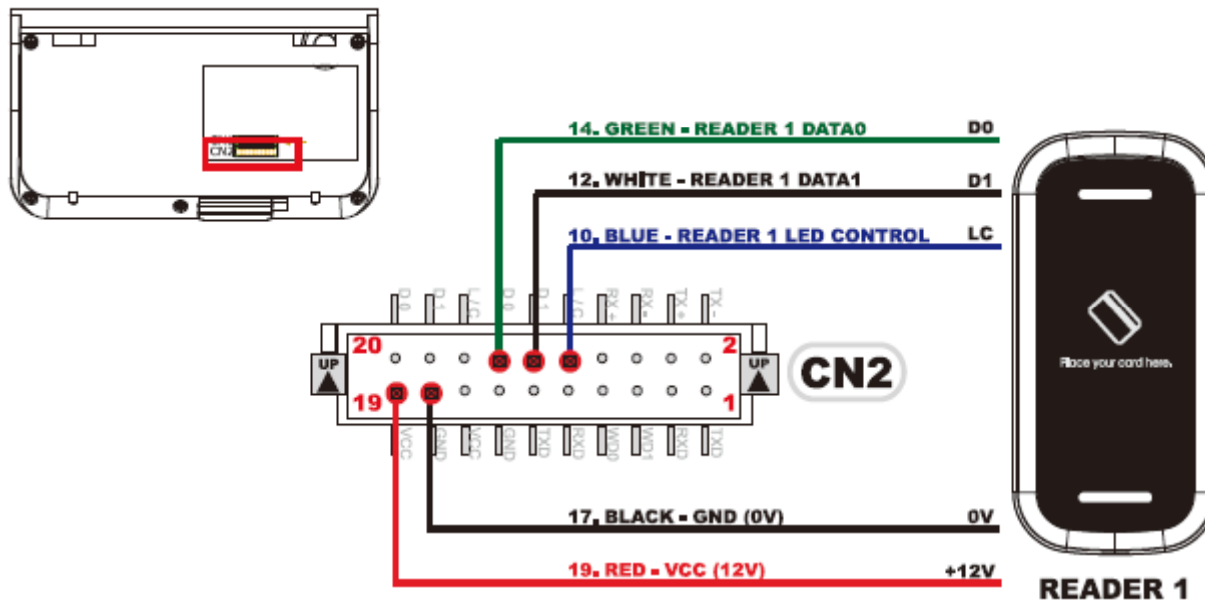
RELAY (LOCK) CONNECTOR



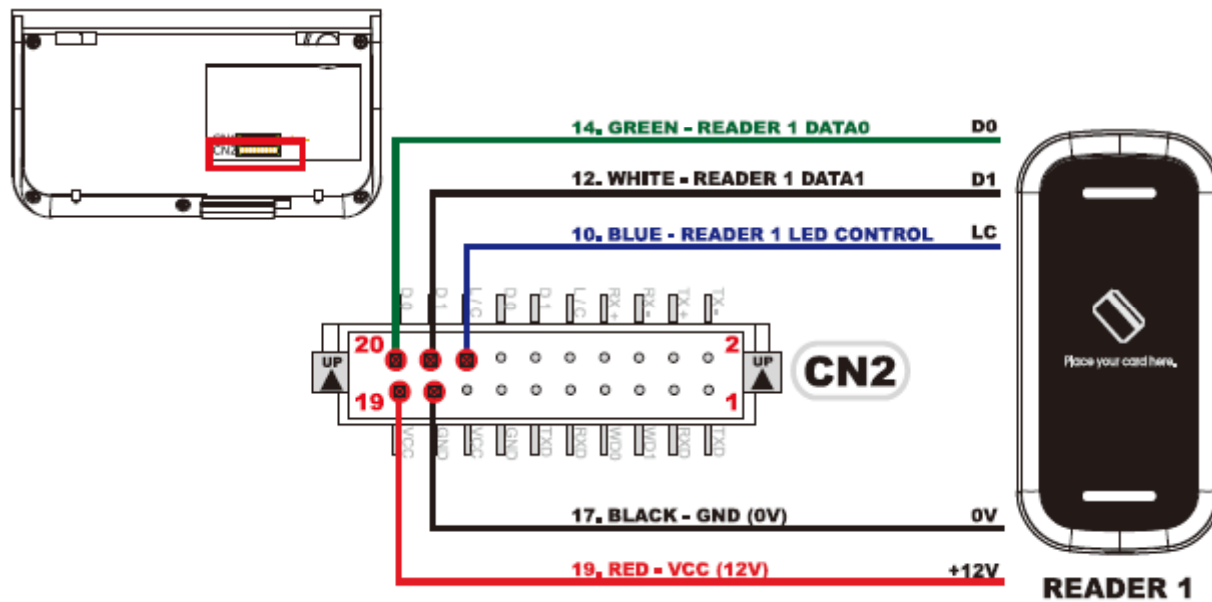
RRE CONNECTOR



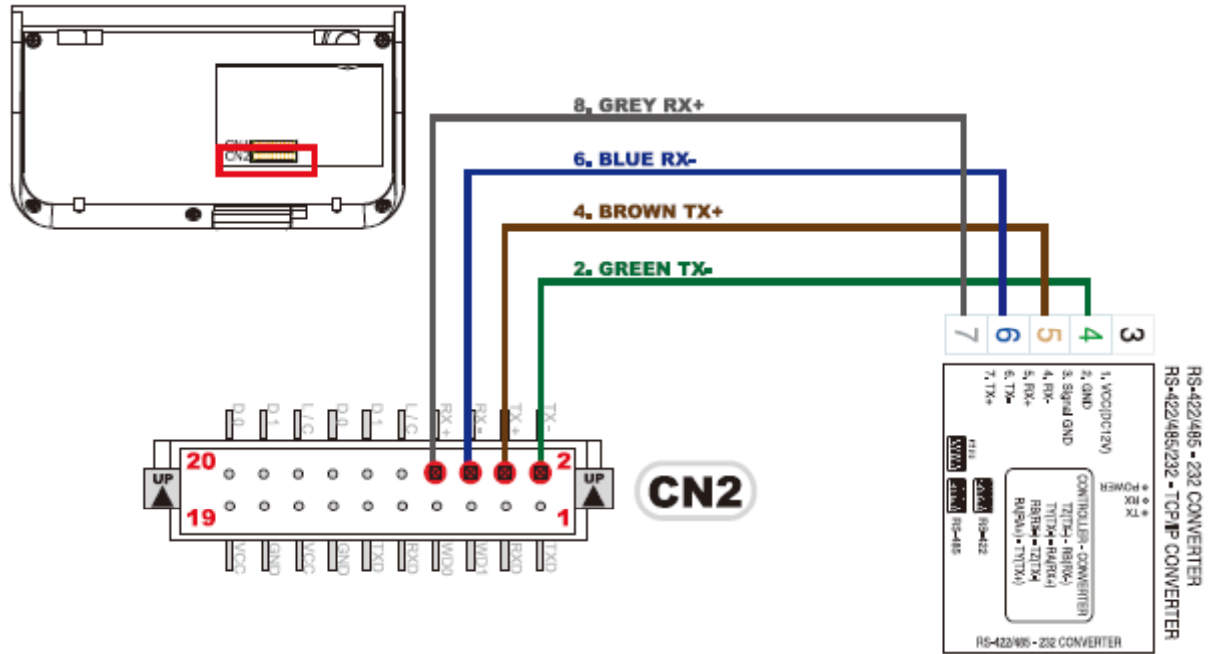
Card Reader 1 Connection



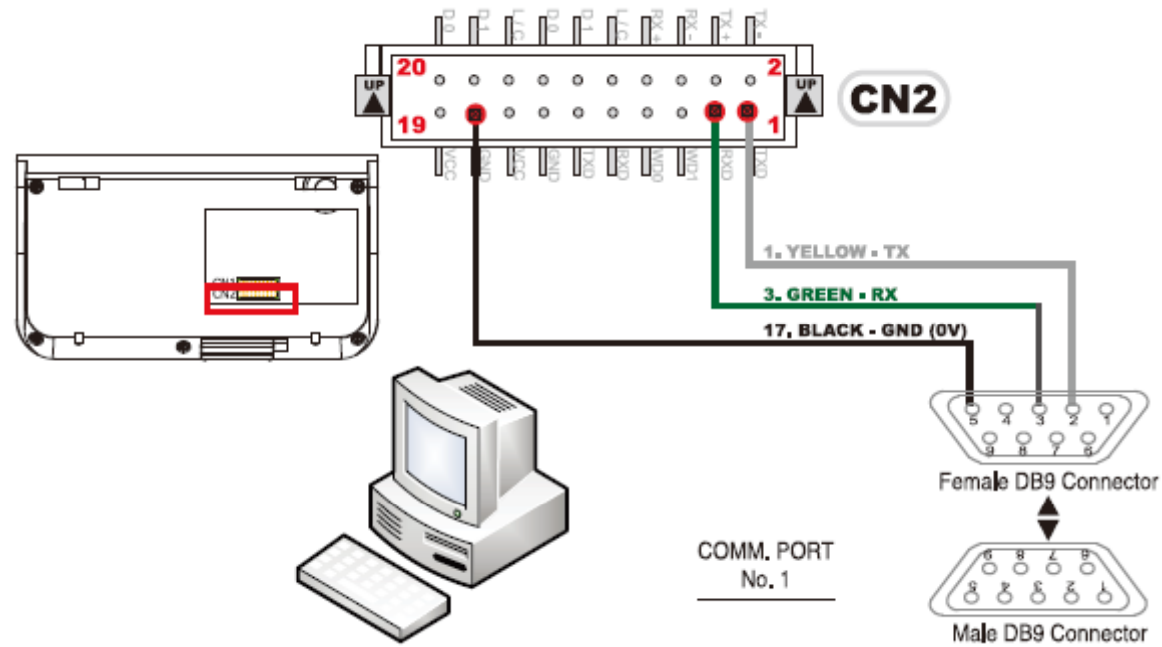
Card Reader 2 Connection



RS422 NETWORK DIAGRAM



RS-232 CONNECTOR



INSTALLATION DIAGRAM

