

USER'S MANUAL

iPASS IP-100R

PIN & Proximity, PINPAD
Single Door Access Controller

Rev.5.1.0

Rev.2.1.0



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1. Important Safety Instructions

When using your iPASS IP-100R, basic safety precautions should always be followed to reduce the risk of fire, electrical shock, and injury to persons. In addition, the following should also be followed:

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on the product.
3. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning. If necessary, use mild soap.
4. Do not use this product near water, such as bath-tub, wash bowl, kitchen sink, laundry tub, in a wet basement, or swimming pool.
5. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your installation site, consult your dealer or local power company.
6. Never push objects of any kind into this product or through the cabinet slots as they may touch voltage points or short out parts that could result in fire or electric shock. Never spill liquid of any kind on the product.
7. To reduce the risk of electric shock, do not disassemble this product by yourself, but take it to qualified service whenever service or repair is required. Opening or removing the covers may expose you to dangerous voltages or other risks. Also, incorrect reassembly can cause electric shock when the unit is subsequently used.
8. Unplug this product from the Direct Current (DC) power source and refer to qualified service personnel under these conditions:
 - a. When the power supply cord or plug is damaged or frayed.
 - b. If liquid has been spilled on the product.
 - c. If the product does not operate normally after following the operating instructions in this manual. Adjust only those controls that are covered by the operating instructions in this manual. Improper adjustment of other controls that are not covered by this manual may damage the unit and will often require extensive work by a qualified technician to restore normal operation.
 - d. If the product exhibits a distinct change in performance.

2. General

A properly configured iPASS IP-100R is an intelligent single door controller that combines the convenience of wireless entry with the security of an alarm system. Also, the iPASS IP-100R system will give you field proven reliability and cost-effective solution anywhere access controls and high security are required. Each standard unit can store up to 128 users or card IDs; a 512-user version is also available. The task of assigning cards and managing a user's database is so simple, user friendly, and can be accomplished in many ways; it could be as simple as presenting each card to the unit or as descriptive as a user's database with an easy to use Graphical User Interface.

The iPASS IP-100R can interface and operate with these accessories: Request for EXIT button, Door-Contact sensor, PIR sensor, Fire sensor and other sensors via 5 independent input ports. Also, output ports which include 2 Relays and 2 TTL outputs can be used to control the operation of other accessories such as Electric/Magnetic Door Lock, Alarm, Chime Bell, and Auto-Dialer. Moreover, the status or behaviors of these input and output accessories are configurable to provide the system administrator with complete customized control of the system. Besides the above configurable I/O interfaced behaviors, many of the iPASS IP-100R internal behaviors are programmable as well. The internal operating parameters include the number of incorrect access attempts before alarm condition is triggered, tampering protection from mounting removal, and timers. Furthermore, every event or transaction can be captured and time stamped by the iPASS IP-100R application software via the provided RS-232 wires.

3. Features

- Single Door Access Controller with PIN & Proximity, PINPAD
- Basic Time & Attendance Function
- 512 Card Holders
- Built-in 4"(10cm) ASK[EM] Format RF Reader
- Operation Mode selectable RF Only, PIN (4~6 digits) Only, RF and P/W (4 digits), RF or PIN (4~6 digits)
- External Reader Port for Exit (26Bit Wiegand Format)
- Standalone or Communication via RS232
- Independent 5 Inputs and 4 Outputs including 2 output relays
- All I/O and operating times programmable using keypad
- Try-out error alarm
- Optional 4ch Voice Auto-dialer
- 3 LEDs for system operation status
- Back Lighting on Keypad
- Toggle Mode for Door Opening/Closing
- Function for Lock Control by Door Contact Switch
- Setting for Safe/Secure Mode
- Duress Alarm Function/ Chime Bell Available
- Dual Tamper Switches

4. Specification

CPU		Dual 8Bit Microprocessors
Memory		Program Memory: 20KByte ROM Data Memory: 2KByte EEPROM
PIN Number		512 PIN Numbers
Read Range	IPK50	2 inch (5cm)
	IPC170	4 inch (10cm)
	IPC80	4 inch (10cm)
Reading Time		30ms
Reading Format		ASK[EM] Format
Card Holders		512 Card Holders
Input Ports		5ea
Output Ports	Relay Output	2ea (COM, NO, NC)
	TTL Output	1ea
	Chime Bell Output	1ea
External Reader Port		1 ea (26 Bit Wiegand Format)
Communication		RS232, Baud Rate: 9600bps
Keypads		12Key Numerric Keypad with Back Lighting
Self Diagnostic		Yes
LED Indicators		3 LEDs(Red, Green, Yellow)
Power		DC12V, Max.200mA
Operation Environment		-35°C ~ +65°C(-31°F~+149°F), 10% ~ 90% RH(Non-Condensing)
Reset		Watch-Dog Timer & Power on Reset
Color		Dark Pearl Gray
Weight		210g (0.464 lbs)

5. Front Panel Description

STAR 100R/PIN120
Main Unit



6. Identifying Supplied Parts

Please unpack and check the contents of the box.



MainUnit
(1ea)



Wall Mount
(1ea)



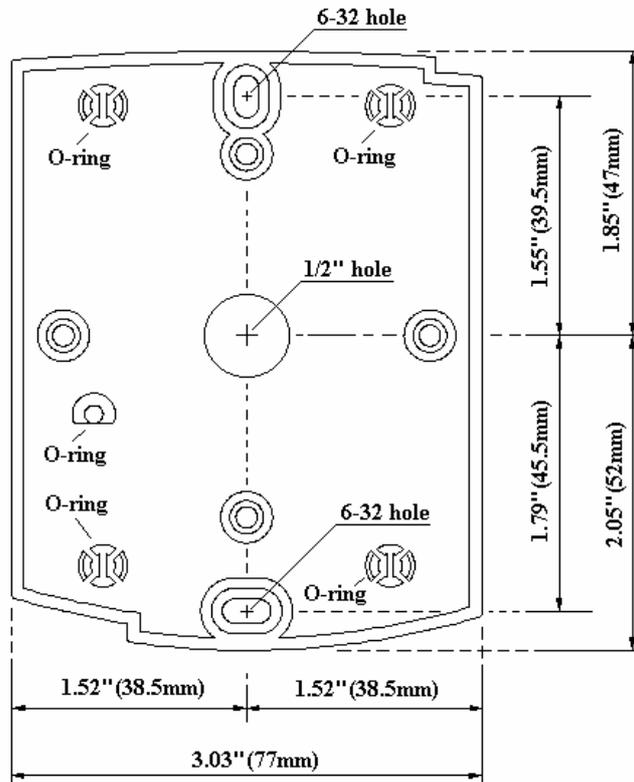
O-Ring
(5ea)



Manual
(1ea)

7. Installation

- 7-1. Tear off page 27 and use the provided template to drill two 6-32 holes and one 1/2" hole on the proper location of the wall to mount the Wall Mount bracket as shown below.
(If the gang box is already installed on the wall then skip this step.)



- 7-2. Using 2 screws, install wall mount to the wall.

CAUTIONS

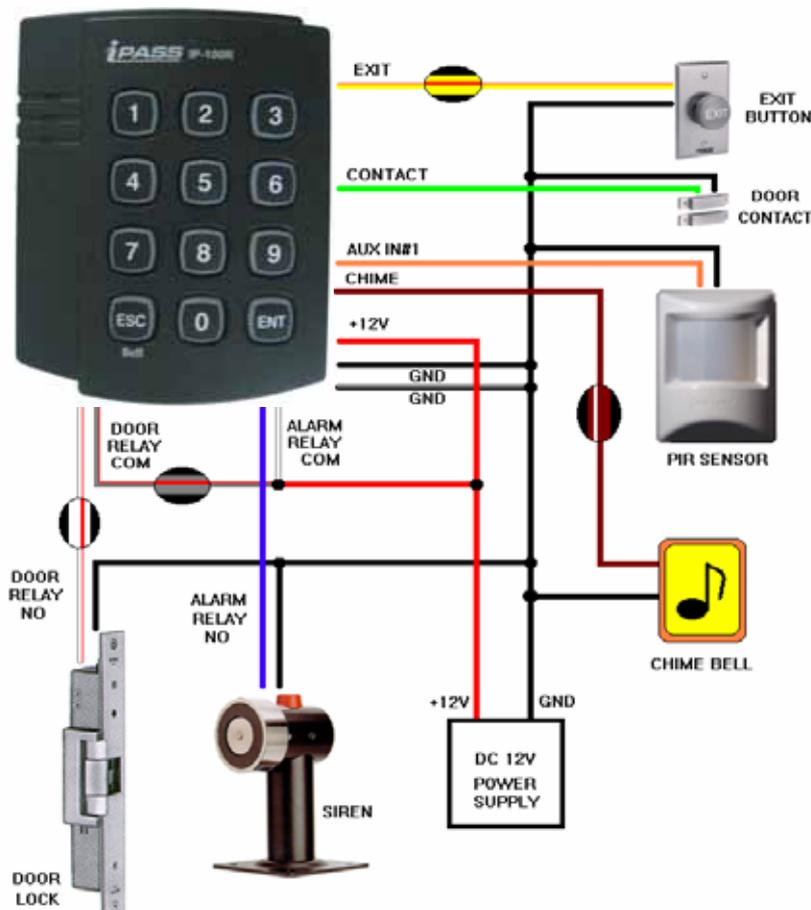
Before mounting the STAR 100R/PIN120 unit to the Wall Mount bracket, operational testing of the unit should be completed, as the locking pins will lock the unit to the Wall Mount. Removing the unit from the Wall Mount bracket after they have been installed together may cause damages to the bracket and render its effectiveness.

- 7-3. Insert 5 O-rings to the wall mount as indicated, then route the cable of the main unit through the center hole and push the main unit to wall mount to lock the main unit and make sure that the main unit is locked with wall mount.

8. Color Coded and Wiring Table

<u>I/O PORT NAME</u>	<u>SIGNAL NAME</u>	<u>COLOR CODED</u>
<u>POWER</u>		
Main Power (V+)	+12V	Red wire
Power Ground	0V	Black wire
<u>OUTPUT</u>		
Door RELAY(2A)	COM	Gray wire with Red band
Door RELAY(2A)	NC	Blue wire with White band
Door RELAY(2A)	NO	White wire with Red band
Alarm RELAY(2A)	COM	White wire
Alarm RELAY(2A)	NC	Purple wire with White band
Alarm RELAY(2A)	NO	Purple wire
TTL Output	TTL	Orange wire with White band
CHIME BELL Output	BELL	Brown wire with White band
<u>INPUT</u>		
Exit Button	EXIT	Yellow wire with Red band
Door Sensor	CONTACT	Green wire
Aux Input #1	IN#1	Orange wire
Aux Input #2	IN#2	Green wire with White band
Aux Input #3	IN#3	Brown wire
<u>WIEGAND INPUT / OUTPUT</u>		
Wiegand Data 0	DATA0	Pink wire
Wiegand Data 1	DATA1	Cyan wire
<u>RS232 INTERFACE</u>		
RS232-TX	TXD	Grey wire
RS232-RX	RXD	Blue wire
RS232-GND	GND	Yellow wire

9. System Wiring for Typical Application



9-1. Power Connection

- Connect (+) wire of DC +12V power to Red wire and Red/White banded wire.
- Connect Power GND (-) wire of DC +12V to Black wire and Black/White banded wire.

9-2. Door Lock Connection

9-2-1 Connection of POWER FAIL SAFE: Door Lock

- Connect Door RELAY (NC), Blue/White banded wire to DC +12V (be sure that the existing power supply has enough capacity to support this accessory or upgrade to a sufficient one.)
- Connect (+) wire of Door Lock to Door RELAY (COM), Grey/Red banded wire.
- Connect (-) wire of Door Lock to Power GND (-) wire.

9-2-2 Connection of POWER FAIL SECURE: Door Lock

- Connect Door RELAY (COM), Grey/Red banded wire to DC +12V (be sure that the existing power supply has enough capacity to support this accessory or upgrade to a sufficient one.)
- Connect (+) wire of Door Lock to Door RELAY (NO), White/Red banded wire.
- Connect (-) wire of Door Lock to Power GND (-) wire.

9-3. Alarm Device Connection

- Connect Alarm RELAY (COM), White wire to DC +12V (be sure that the existing power supply has enough capacity to support this accessory or upgrade to a sufficient one.)
- Connect (+) wire of Alarm Device to Alarm RELAY (NO), Purple wire.
- Connect (-) wire of Alarm Device to Power GND (-) wire.

9-4. Exit Button Connection

- Connect one of the wires of Exit Button to Exit Button Input, Yellow/Red banded wire.
- Connect the other wire of Exit Button to Power GND (-) wire.
(If a normally closed Exit button is used, then see section 12-67 to change the detection scheme from the defaulted setting)

9-5. Door Contact Sensor Connection

- Connect Door Contact sensor (COM) wire to Door Contact Input, Green wire.
- Connect Door Contact sensor (NO) wire to Power GND (-) wire.
(If a normally closed Door Contact sensor is used, then see section 12-69 to change the detection scheme from the defaulted setting.)

9-6. Auxiliary Input Device Connection (Applied to AUX Input #1, #2, #3)

- Connect one wire of the Auxiliary Input Device to the AUX Input wire (Input #1 Orange, Input #2 Green/White banded, Input #3 Brown wire).
- Connect the other wire of Auxiliary Input Device to Power GND (-) wire.
(If a normally closed input device is used, then see section 12-61,63 & 65 to change the detection schemes from the defaulted settings.)

9-7. Auto-Dialer Connection (Separate purchase required)

- The Auto-dialer function of this unit has not been evaluated by UL.
- Connect the input wire of Auto-Dialer to TTL output, Orange/White banded wire.
 - Connect (+) wire of Auto-Dialer to DC +12V (be sure that the existing power supply has enough capacity to support this accessory or upgrade to a sufficient one.)
 - Connect (-) wire of Auto-Dialer to Power GND (-) wire.
 - Connect Telephone Line plug (RJ-14) to Auto-Dialer.
(If an active High Auto-Dialer is used, then see section 12-71 to change the TTL output level from the defaulted setting.)

9-8. Wiegand Input Connection From Another Compatible Wiegand Reader

- (Separate purchase required)
- Connect (+) wire of Reader to DC +12V (be sure that the existing power supply has enough capacity to support this accessory or upgrade to a sufficient one.)
 - Connect (-) wire of Reader to Power GND (-) wire.
 - Connect Wiegand output DATA0 wire of the additional Reader to DATA0, Pink wire.

- Connect Wiegand output DATA1 wire of the additional Reader to DATA1, Cyan wire.

9-9. RS-232 Communication Port Connection

9-pin connector (COM Port, female) is required to connect serial communication RS-232 between Main Unit and Personal Computer.

- Connect RS-232-TX, Grey wire of Main Unit to pin number 2 of 9-pin connector.
- Connect RS-232-RX, Blue wire of Main Unit to pin number 3 of 9-pin connector.
- Connect RS-232-GND, Yellow wire of Main Unit to pin number 5 of 9-pin connector.
- Plug in 9-pin connector to COM1 or COM2 Port of Personal Computer.
- Install and run STAR 100R/PIN120 Application Software.

9-10. Chime Bell Connection (Separate purchase required)

- Connect (+) wire of Chime Bell unit to Bell Output, Brown/White wire of Main Unit.
- Connect (-) wire of Chime Bell unit to Power GND (-) wire.

10. Initial Setup

The Flash memory of each shipped STAR 100R/PIN120 contains a minimum set of defaulted values, but it does not have any other preprogrammed values or user's data in it, therefore, Initial Setup is required upon the first time the unit is powered-up in order to operate the unit properly.

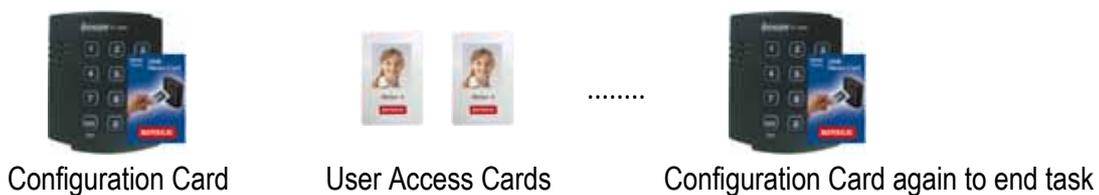
10-1. Registration of RF Cards for RF CARD ONLY MODE

(1) Apply 12VDC to the unit.

All 3 LEDs will be flashing along with a powered-up melody (do mi sol me do..do mi sol do~).

(2) Press **0** **1** **ENT** from the keypad. (RF CARD ONLY MODE)

(3) Present RF Cards as follow to register Configuration Card and User Access Cards.



NOTE: The user may choose to register the 8 digit card numbers via the keypad instead of presenting the cards to the unit; this implies that the user must know the 8 digit representation of each card.

(4) The first card read becomes the Configuration Card and the following RF Cards are registered as User Access Cards. Once all User Access Cards have been registered, present the Configuration Card again to complete the registration. (Please keep the Configuration Card in a secure location for future changes.)

(5) Now, the Main Unit is entered into the normal operation mode with factory defaulted settings.

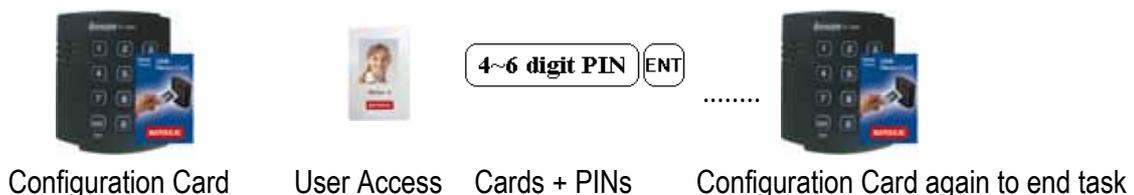
10-2. Registration of RF Cards with PINs for RF CARD + PIN MODE

(1) Apply 12VDC to the unit.

All 3 LEDs will be flashing along with a powered-up melody (do mi sol me do..do mi sol do~).

(2) Press **0** **2** **ENT** from the keypad. (RF CARD + PIN MODE)

(3) Present RF Cards as follow to register Configuration Card and User Access Cards + 4~6 digit Personal Identification Number (PIN) for each User Access Card.



(4) The first card read becomes the Configuration Card and the following RF Cards + PINs are registered as User Access Cards with assigned PINs. Once all User Access Cards and PINs

have been registered, present the Configuration Card again to complete the registration.

(Please keep the Configuration Card in a secure location for future changes.)

(5) Now, the Main Unit is entered into the normal operation mode with factory defaulted settings.

10-3. Registration of PIN ONLY MODE

(1) Apply 12VDC to the unit.

All 3 LEDs will be flashing along with a powered-up melody (do mi sol me do..do mi sol do~).

(2) Press **0 3 ENT** from the keypad. (PIN ONLY MODE)

(3) Enter **4~6 digit PIN ENT** to register Configuration PIN then **4~6 digit PIN ENT** to register for each subsequent User Access PIN at a time and then enter the **4~6 digit PIN ENT** (Configuration PIN) to complete the registration.

4~6 digit PIN ENT **4~6 digit PIN ENT** **4~6 digit PIN ENT**

Configuration PIN User Access PIN ... Configuration PIN again to complete the registration.

(4) The first 4~6 digit PIN becomes the Configuration PIN and the subsequent 4~6 digit PINs are registered as User Access PINs. Once all User Access PINs have been registered, enter the Configuration PIN again to complete the registration. (Please store the Configuration PIN for future changes.)

(5) Now, the Main Unit is entered into the normal operation mode with factory defaulted settings.

10-4. Registration of RF/PIN Combination MODE

(1) Apply 12V DC to the unit.

All 3 LEDs will be flashing with a power-up melody.

(2) Press **0 5 ENT** from the keypad. (RF/PIN Combination Mode)

(3) Present Configuration Card to register Configuration Card to the unit.

(4) Present RF Card or enter 4~6 digit PIN number to register user access card or PIN.

(5) Present Configuration Card to complete the registration



10-5. Factory Defaulted Setting Values

After the Initial Setup, the Main Unit uses the factory defaulted setting values below to execute the normal operation mode. You may want to change these factory setting values or modify your User Access list; refer to section 12 for instructions on how to customize the operation of your unit.

(1) When User Access Card (or PIN) is granted

- Door RELAY activates for 3sec.
- Green LED lights on for 3sec.

(2) When User Access Card (or PIN) is not recognized

- Alarm RELAY activates for 2sec.
- Red LED lights on for 2sec.



(3) Duress Password = 00, Duress Alarm to TTL output port for 03 sec.

(4) QUICK ACCESS MODE = Disable

(5) Chime Bell output = Enable, Chime Bell activation time = 05 sec.

(6) Melody sound = Enable

(7) Keypad lock-out time when Try-Out error detected = 01 min.

(8) Detect all inputs from 'H' to 'L'

(9) Activate TTL output to 'L'

(10) Delay time to activate SECURE MODE = 00 min.

(11) Door Open time-out for Door Contact sensor = 00 sec.

(12) Number of times of Try-out = 05 times

(13) Input keypress time-out time = 20 sec.

(14) Tamper Alarm = Disable, Tamper Alarm output port = 02 (Alarm Relay)

(15) Toggle Mode: Disable

(16) Unlock followed by Door Contact: Disable

11. Operation

11-1. Normal Operation Mode (Safe Mode)



When the Main Unit operates in normal mode, the yellow LED is flashing every second.

11-2. Open the Door



When a registered Card (or PIN) is read, the Door will open for 3 seconds along with the "do-mi-sol-do" melody.



Registered Card (or PIN)

11-3. Exit (Open the Door)**Exit Button**

To request for exit from the inside, an Exit Button can be used to open the door for the same duration as in 11-2.

**11-4. Action and Alarm Caused by Unregistered Card (or PIN)**

When an unregistered Card (or PIN) is read, thus, access is denied and the Alarm can be activated for 2 seconds along with "sol-do-sol-do" melody.

**Unregistered Card (or PIN)**

(If you do not want to activate the Alarm in case of unregistered access attempt, then you can change this setting as shown in section 12.)

11-5. Secure Mode

The last person to exit can change the operation of the unit from Normal Mode to Secure Mode by entering the Secure Code of    onto the keypad.

   → Change to Secure Mode.

The Secure Mode will revert back to the normal mode when a registered card (or PIN) is presented /entered.

11-6. DURESS Alarm

In case of Duress, enter the 2 digit Duress Password    and the door will open as usual; however, the Duress Alarm (TTL Output) will activate an external Auto-Dialer to notify the appropriate personnel. See section 9.7 and 12.29 for more instructions on this feature.

11-7. Chime Bell Operation

The  key can be used to activate an external Chime Bell for 5 seconds, the defaulted value.
BELL

12. Setting Changes

Configuration Card/PIN is required to change existing or defaulted setting values or to manage user's access. First, present the Configuration Card (or enter the Configuration PIN) and enter the 2-digit command code.

RF Only Mode or RF + PIN Mode



Configuration Card

+ [?] [?] [ENT]

Command Code

or

PIN Only Mode

[4~6 digit PIN] [ENT] + [?] [?] [ENT]

Configuration PIN

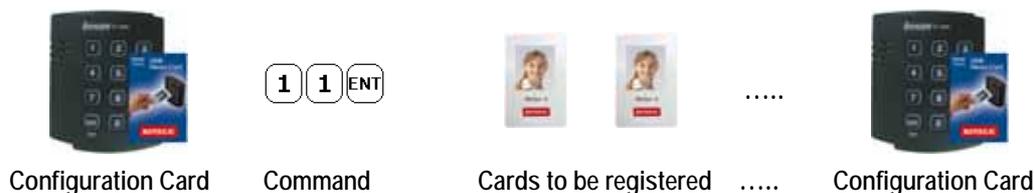
Command Code

Summary Table of Commands

Command Action/Change setting values

- | | |
|----|---|
| 11 | Add User Access Cards (RF CARD ONLY MODE) |
| 12 | Add User Access Cards and PIN (RF CARD + PIN MODE) |
| 13 | Add User Access PIN numbers (PIN ONLY MODE) |
| 14 | Delete User Access Cards (or PIN) |
| 21 | Change Door open time when User Access Card (or PIN) is granted |
| 22 | Change Alarm time when User Access Card (or PIN) is denied |
| 23 | Change Alarm time when Try-Out error detected |
| 24 | Change Alarm time when Door-Contact error detected |
| 25 | Change Alarm time when Aux Input #1 detected |
| 26 | Change Alarm time when Aux Input #2 detected |
| 27 | Change Alarm time when Aux Input #3 detected |
| 28 | Change Alarm time when magnet detected |
| 29 | Register 2 digits Duress Alarm password |
| 30 | Change Alarm time when Duress Alarm detected |
| 31 | Test Door open time set by command "21" |
| 32 | Test Alarm time set by command "22" |
| 33 | Test Alarm time set by command "23" |
| 34 | Test Alarm time set by command "24" |
| 35 | Test Alarm time set by command "25" |
| 36 | Test Alarm time set by command "26" |
| 37 | Test Alarm time set by command "27" |
| 39 | Change Chime Bell activating time |
| 41 | Open door unconditionally |

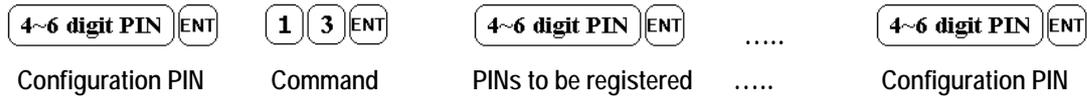
- 42 Close door unconditionally
- 43 Enable QUICK ACCESS MODE
- 44 Disable QUICK ACCESS MODE
- 15 Add User Access Card/PIN (RF/PIN Combination Mode)
- 45 Enable Toggle Mode for Lock control
- 46 Disable Toggle Mode for Lock control
- 47 Enable Unlock followed by Door Contact
- 48 Disable Unlock followed by Door Contact
- 51 Disable Melody sound (turning off both the melody & keypress audio feedback)
- 52 Enable Melody sound
- 60 Change keypad lock-out time when Try-Out error detected
- 61 Set Aux Input #1 Detection from 'L' to 'H'
- 62 Set Aux Input #1 Detection from 'H' to 'L'
- 63 Set Aux Input #2 Detection from 'L' to 'H'
- 64 Set Aux Input #2 Detection from 'H' to 'L'
- 65 Set Aux Input #3 Detection from 'L' to 'H'
- 66 Set Aux Input #3 Detection from 'H' to 'L'
- 67 Set Exit Button Input Detection from 'L' to 'H'
- 68 Set Exit Button Input Detection from 'H' to 'L'
- 69 Set Door-Contact sensor Input Detection from 'L' to 'H'
- 70 Set Door-Contact sensor Input Detection from 'H' to 'L'
- 71 Activate TTL output to 'H'
- 72 Activate TTL output to 'L'
- 77 Enable Chime Bell Output
- 78 Disable Chime Bell Output
- 80 Set delay time to activate SECURE MODE
- 81 Set Door Open time-out for Door-Contact sensor
- 82 Set number of times of Try-Out
- 83 Set input key press time-out time
- 84 Set Tamper Alarm output port
- 88 Enable Tamper Alarm
- 89 Disable Tamper Alarm
- 99 Re-Initialize and erase all setup data

12-11. Add User Access Cards (RF CARD ONLY MODE)

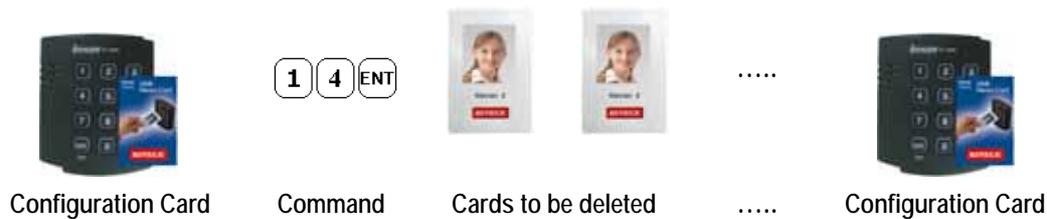
12-12. Add User Access Cards (RF CARD + PIN MODE)



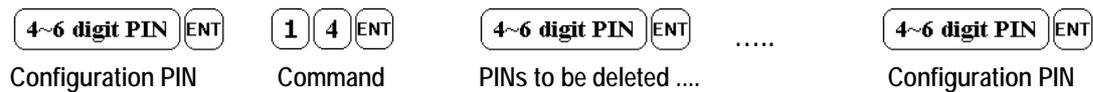
12-13. Add User Access PIN (PIN ONLY MODE)



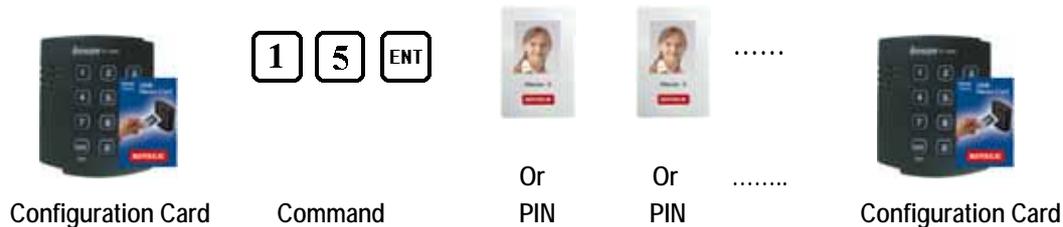
12-14.1. Delete User Access Cards (RF CARD ONLY MODE & RF CARD + PIN MODE)



12-14.2. Delete User Access PIN (PIN ONLY MODE)



12-15. Add User Access Card/PIN (RF/PIN Combination Mode)



<TABLE 1> SETTINGS FOR COMMAND

Symbol	Setting Values	Examples/Remarks
Output Mode (OM)	<p>(You must add value and)</p> <p><u>Setting value for activating time</u></p> <p>Activate Mode Value</p> <p>Activate only in Secure Mode : 00</p> <p>Activate in Safe & Secure Mode : 50</p> <p><u>Setting Value for activating Output Port</u></p> <p>Activate Output Port Value</p> <p>Activate only Door Relay : 01</p> <p>Activate only Alarm Relay : 02</p> <p>Activate only TTL Output : 04</p> <p>Activate Door Relay & TTL : 05</p> <p>Activate Alarm Relay & TTL : 06</p>	<p>EX1)Activate Door Relay In Safe & Secure Mode Safe & Secure Mode 50 <u>Door Relay 01</u> OM = 51</p> <p>EX2)Activate Alarm Relay & TTL only in Secure mode Secure Mode 00 <u>Alarm Relay & TTL 06</u> OM = 06</p>
tt	tt is the activating time value (seconds) from 01sec. to 99sec.	tt value 00sec. means no operation.
PW	PW is the 2 digits Password for Duress Alarm.	Do not use '77' for PW as it is used for Secure Mode
mm	mm is activating time value (minutes) from 01min. to 99min.	mm value 00min. means no operation.

12-21. Change Door Open Time When User Access Card (or PIN) Is Granted



Configuration Card /Configuration PIN

(tt=00~99 sec., Defaulted Door Open time = 03 sec.)

2 1 ENT

Command

t t ENT

Door open time

t t ENT

TTL time

12-22. Change Alarm Time When User Access Card (or PIN) Is Denied

(Refer to Table 1 for OM, tt=00~99 sec., Defaulted Alarm time = 02 sec.)



Configuration Card / Configuration PIN

2 2 ENT

Command

O M ENT

Output Mode

t t ENT

Door time

t t ENT

Alarm Time

t t ENT

TTL time

12-23. Change Alarm Time When Try-Out Error Detected

(Refer to Table 1 for OM, tt=00~99 sec., Defaulted Alarm time = 10 sec.)



Configuration Card / Configuration PIN

2 3 ENT

Command

O M ENT

Output Mode

t t ENT

Door time

t t ENT

Alarm Time

t t ENT

TTL time

12-24. Change Alarm Time When Door Contact Error Detected

(Refer to Table 1 for OM, tt=00~99 sec.)

Door Open Time-out setting is required for activating, refer to 12.81.



Configuration Card / Configuration PIN

2 4 ENT

Command

O M ENT

Output Mode

t t ENT

Door time

t t ENT

Alarm Time

t t ENT

TTL time

12-25. Change Alarm Time When AUX Input #1 Detected

12-26. Change Alarm Time When AUX Input #2 Detected

12-27. Change Alarm Time When AUX Input #3 Detected



Configuration Card / Configuration PIN

(Refer to Table 1 for OM, tt=00~99 sec.)

2 5 ENT

2 6 ENT

2 7 ENT

Command

O M ENT

Output Mode

t t ENT

Door time

t t ENT

Alarm Time

t t ENT

TTL time

12-28. Change Alarm Time When Magnet Detected

(Refer to Table 1 for OM, tt=00~99 sec.)



Configuration Card / Configuration PIN

2 8 ENT

Command

O M ENT

Output Mode

t t ENT

Door time

t t ENT

Alarm Time

t t ENT

TTL time

12-29. Register 2 Digit Duress Alarm Password



(PW=00~99, Defaulted PW= 00, Do not use (7)(7)ENT)

(2)(9)ENT

(P)(W)ENT

Configuration Card
/Configuration PIN

Command

Password

Note: '00' is registered as defaulted Password.

12-30. Change Alarm Time When Duress Alarm Detected



(tt=00~99 sec., Defaulted TTL time= 03 sec.)

(3)(0)ENT

(t)(t)ENT

Configuration Card
/Configuration PIN

Command

TTL time

12-31. Test Door Open Time Set By Command "21"

12-32. Test Alarm Time Set By Command "22"

12-33. Test Alarm Time Set By Command "23"

12-34. Test Alarm Time Set By Command "24"

12-35. Test Alarm Time Set By Command "25"

12-36. Test Alarm Time Set By Command "26"

12-37. Test Alarm Time Set By Command "27"



Outputs set by command will be tested.

(3)(1)ENT

~

(3)(7)ENT

Configuration Card
/Configuration PIN

Command

12-39. Change Chime Bell Activating Time



(tt=00~99 sec., Defaulted Chime Bell time= 05 sec.)

(3)(0)ENT

(t)(t)ENT

Configuration Card
/Configuration PIN

Command

Chime Bell time

12-41. Open Door UnconditionalConfiguration Card
/Configuration PIN 4 1 ENT**12-42. Close Door Unconditional**Configuration Card
/Configuration PIN 4 2 ENT**12-43. Enable QUICK ACCESS MODE**

When QUICK ACCESS MODE is enabled, Door will open simply by press ENT key.

Configuration Card
/Configuration PIN 4 3 ENT**12-44. Disable QUICK ACCESS MODE**Configuration Card
/Configuration PIN 4 4 ENT (Defaulted setting=Disable)**12-45. Enable Toggle Mode for Lock Control**

Configuration Card

4 5 ENT

If you set Enable Toggle Mode, Door will be toggled open and close function when the registered card or PIN entered. You may use this function for Arm/Disarm for buglar alarm system.

12-46. Disable Toggle Mode for Lock Control

Configuration Card

4 6 ENT

12-47. Enable Lock followed by Door Contact

Configuration Card

4 7 ENT

If you set Enable Lock followed by Door Contact, Door only be locked followed by Door Contact so the door will remain open until the door is completely closed.

12-48. Disable Lock followed by Door Contact

Configuration Card

4 8 ENT**12-51. Disable Melody Sound**Configuration Card
/Configuration PIN**5 1 ENT****12-52. Enable Melody Sound**Configuration Card
/Configuration PIN**5 2 ENT**

(Defaulted setting=Enable)

12-60. Change Keypad Lock-out Time When Try-Out Error Detected

(mm=00~99 min., Defaulted Keypad Lock-out time= 01 min.)

Configuration Card
/Configuration PIN**6 0 ENT****m m ENT**

Command

Keypad Lock-out time

12-61. Set AUX Input #1 Detection from 'L' to 'H'

AUX#1 input is detected on the raising edge of AUX#1 input

Configuration Card
/Configuration PIN**6 1 ENT****12-62. Set AUX Input #1 Detection from 'H' to 'L'**

AUX#1 input is detected on the falling edge of AUX#1 input (Defaulted setting)

Configuration Card
/Configuration PIN**6 2 ENT****12-63. Set AUX#2 Input Detection from 'L' to 'H'**

AUX#2 input is detected on the raising edge of AUX#2 input

Configuration Card
/Configuration PIN**6 3 ENT****12-64. Set AUX#2 Input Detection from 'H' to 'L'**

AUX#2 input is detected on the falling edge of AUX#2 input (Defaulted setting)

Configuration Card
/Configuration PIN**6 4 ENT**

12-65. Set AUX#3 Input Detection from 'L' to 'H'

AUX#3 input is detected on the raising edge of AUX#3 input

Configuration Card 6 5 ENT
/Configuration PIN**12-66. Set AUX#3 Input Detection from 'H' to 'L'**

AUX#3 input is detected on the falling edge of AUX#3 input (Defaulted setting)

Configuration Card 6 6 ENT
/Configuration PIN**12-67. Set Exit Button Input Detection from 'L' to 'H'**

Exit Button input is detected on the raising edge of Exit Button input

Configuration Card 6 7 ENT
/Configuration PIN**12-68. Set Exit Button Input Detection from 'H' to 'L'**

Exit Button input is detected on the falling edge of Exit Button input (Defaulted setting)

Configuration Card 6 8 ENT
/Configuration PIN**12-69. Set Door Contact Sensor Input Detection from 'L' to 'H'**

Door Contact input is detected on the raising edge of Door Contact input

Configuration Card 6 9 ENT
/Configuration PIN**12-70. Set Door Contact Sensor Input Detection from 'H' to 'L'**

Door Contact input is detected on the falling edge of Door Contact input (Defaulted setting)

Configuration Card 7 0 ENT
/Configuration PIN**12-71. Activate TTL Output to 'H'**

TTL output changes the state from logic '0' to logic '1' when it activates.

Configuration Card 7 1 ENT
/Configuration PIN**12-72. Activate TTL Output to 'L'**

TTL output changes the state from logic '1' to logic '0' when it activates. (Defaulted setting)

Configuration Card 7 2 ENT
/Configuration PIN**12-77. Enable Chime Bell Output**Configuration Card 7 7 ENT
/Configuration PIN

(Defaulted setting=Enable)

12-78. Disable Chime Bell OutputConfiguration Card 7 8 ENT
/Configuration PIN

12-80. Set Delay Time to Activate SECURE MODE

(mm=00~99 min., Defaulted Delay time= 00 min.)

Configuration Card
/Configuration PIN]

8 0 ENT

Command

m m ENT

Delay time

12-81. Set Door Open Time-out for Door Contact Sensor

(tt=00~99 sec., Defaulted value = 00 sec. means no detect Door Contact Sensor, refer to 12.24 for Alarm time settings)

Configuration Card
/Configuration PIN

8 1 ENT

Command

t t ENT

Door Open time-out

12-82. Set Number of Times of Try-Out

(NN=00~99 times, Defaulted Try-out numbers= 05 times)

Configuration Card
/Configuration PIN

8 2 ENT

Command

N N ENT

Try-out numbers

12-83. Set Input Keypress Time-out Time

(tt=10~99 sec., Defaulted Keypress time-out= 20 sec.,

Minimum tt = 10 sec.)

Configuration Card
/Configuration PIN

8 3 ENT

Command

t t ENT

Keypress time-out time

12-84. Set Tamper Alarm Output Port

(Refer to Table 1 for OM, Defaulted Output port= 02 Alarm Relay)

Configuration Card
/Configuration PIN

8 4 ENT

Command

O M ENT

Alarm Output Port

12-88. Enable Tamper Alarm

To comply with UL 294, the Standard for Access Control System Units, the Tamper Alarm must be enabled.

Configuration Card
/Configuration PIN 8 8 ENT

12-89. Disable Tamper Alarm

Configuration Card
/Configuration PIN 8 9 ENT (Defaulted setting)

12-99. Re-Initialize and Erase All Setup Data

Please use this command when you really want to erase all data and start the unit from the beginning.

Configuration Card
/Configuration PIN 9 9 ENT

Additional Function

12-73. Enable Keypad Input To Enter ID Number

Keypad input is enabled to enter the ID numbers through keypads.

Configuration Card
/Configuration PIN 7 3 ENT

12-74. Disable Keypad Input To Enter ID Number

Keypad input is disabled to enter the ID numbers through keypads.

(Defaulted setting)

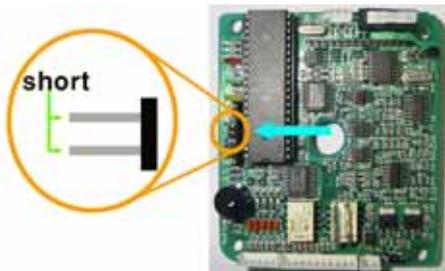
Configuration Card
/Configuration PIN 7 4 ENT

13. Initialization

When you lost the Configuration Card or forgot the Master PIN number, you may need to re-initialize the unit for new setup. There is a hard-wired Initialize function on the unit.

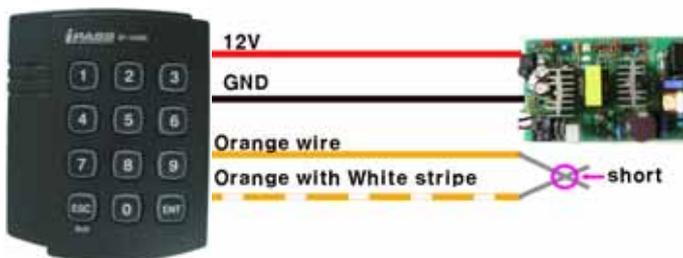
WARNING: You may lose all setup data after execute Initialize.

13-1. Hardware Initialization (When the master card or ID is lost)

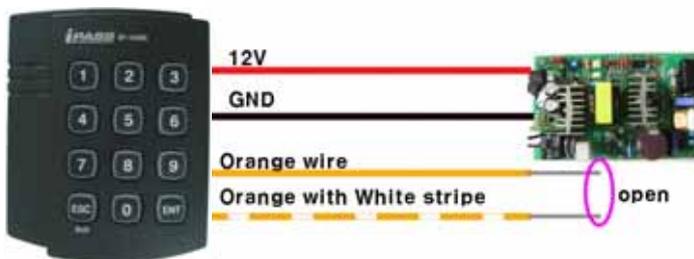


- 1) Open the top case taking out four bolts on the back.
- 2) As the left picture, make two jumpers short in state of being on power
- 3) 3-color LED blinking with beep sound indicates success of initialization

13-2. Wire Initialization (When the master card or ID is lost, 100R: Over V5.0.0)



- 1) Main power off.
- 2) Connect the orange and orange with white stripe wire together and power on.
- 3) 3-color LED blinking with beep sound indicates the success of initialization.



100R: Over V5.0.4

- 4) Disconnect those two wires and wire them as shown above(normal connection diagram).

100R: V5.0.0 ~ V5.0.3

- 4) Main power off again.
- 5) Disconnect orange wire and orange with white stripe wire as shown above(normal connection diagram) and power on.

14. FCC Registration Information

FCC REQUIREMENTS PART 15

Caution: Any changes or modifications in construction of this device which are not expressly approved by the manufacturer for compliance could void the user's authority to operate the equipment.

NOTE: 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 interface, and
2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A Digital Device, pursuant to Part 15 of the FCC Rules. These limits are designed to this equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the radio or television off and on, the user is encouraged to try to correct interference by one or more of the following measures.

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on another circuit.
4. Consult the dealer or an experienced radio/TV technician for help.

15. RMA Request Form

- RMA REQUEST FORM : ORIGINAL



IDTECK Co., Ltd.



5F, Ace Techno Tower B/D, 684-1, Deungchon-Dong, Gangseo-Gu, Seoul, 157-030, Korea
TEL : +82-2-2659-0055, FAX ; +82-2-2659-0086, www.idteck.com

RMA REQUEST FORM					
Send to: RMA Customer Service 5F, Ace Techno Tower B/D 684-1, Deungchon-Dong, Gangseo-Gu Seoul, 157-030, Korea Sales Person In Charge			RMA No. & Date : Original Invoice No. & Date : Requested from :		
Shipping Port : Air / Vessel :		Departure Date :			
NO	Model	Serial Number	Error Check Box by shipper		
1	Engineer Comment		RS 232 Com. <input type="checkbox"/>	Power <input type="checkbox"/>	Card Reading <input type="checkbox"/>
			Input/Output <input type="checkbox"/>	Keypad <input type="checkbox"/>	RS 422 Com <input type="checkbox"/>
			Others <input type="checkbox"/> :		
2	Engineer Comment		RS 232 Com. <input type="checkbox"/>	Power <input type="checkbox"/>	Card Reading <input type="checkbox"/>
			Input/Output <input type="checkbox"/>	Keypad <input type="checkbox"/>	RS 422 Com <input type="checkbox"/>
			Others <input type="checkbox"/> :		
3	Engineer Comment		RS 232 Com. <input type="checkbox"/>	Power <input type="checkbox"/>	Card Reading <input type="checkbox"/>
			Input/Output <input type="checkbox"/>	Keypad <input type="checkbox"/>	RS 422 Com <input type="checkbox"/>
			Others <input type="checkbox"/> :		
4	Engineer Comment		RS 232 Com. <input type="checkbox"/>	Power <input type="checkbox"/>	Card Reading <input type="checkbox"/>
			Input/Output <input type="checkbox"/>	Keypad <input type="checkbox"/>	RS 422 Com <input type="checkbox"/>
			Others <input type="checkbox"/> :		
5	Engineer Comment		RS 232 Com. <input type="checkbox"/>	Power <input type="checkbox"/>	Card Reading <input type="checkbox"/>
			Input/Output <input type="checkbox"/>	Keypad <input type="checkbox"/>	RS 422 Com <input type="checkbox"/>
			Others <input type="checkbox"/> :		
Manufacture's Verification					
Product Defective :			Installation Error :		
User's Misuse :			Connection Error :		
Communication Error :			Others :		
Packing Details					
Dimension(L:W:H) :			No. of Units:		
Net & Gross Weight :			No. of Boxes:		
Requested by:			Received by:		
_____ Signature of Buyer			_____ Signature of IDTECK		

- RMA REQUEST FORM : SAMPLE



IDTECK Co., Ltd.



5F, Ace Techno Tower B/D, 684-1, Deungchon-Dong, Gangseo-Gu, Seoul, 157-030, Korea
TEL : +82-2-2659-0055, FAX ; +82-2-2659-0086, www.idteck.com

RMA REQUEST FORM					
Send to: RMA Customer Service 5F, Ace Techno Tower B/D 684-1, Deungchon-Dong, Gangseo-Gu Seoul, 157-030, Korea			RMA No. & Date : We will send this No. , if needed. Original Invoice No. & Date : 00-00-0-000 / 2005.10.01		
Sales Person in Charge: Karina Kwak			Requested from : Mr. XXXX YYYY ABC Company Address: Country:		
Shipping Port :		Narita	Departure Date :		2005, 10. 15
Air / Vessel :		Air			
NO	Model	Serial Number	Error Check Box by Shipper		
1	SR 10	XXXXXXXXXXXXXX	RS 232 Com. <input type="checkbox"/>	Power Keypad <input type="checkbox"/>	Card Reading RS 422 Com <input type="checkbox"/>
	Engineer Comment	Write problem (must be detailed).	Others <input type="checkbox"/> :		
2	others		RS 232 Com. <input type="checkbox"/>	Power <input type="checkbox"/>	Card Reading <input type="checkbox"/>
	Engineer Comment		Input/Output <input type="checkbox"/>	Keypad <input type="checkbox"/>	RS 422 Com <input type="checkbox"/>
3			RS 232 Com. <input type="checkbox"/>	Power <input type="checkbox"/>	Card Reading <input type="checkbox"/>
	Engineer Comment		Input/Output <input type="checkbox"/>	Keypad <input type="checkbox"/>	RS 422 Com <input type="checkbox"/>
4			RS 232 Com. <input type="checkbox"/>	Power <input type="checkbox"/>	Card Reading <input type="checkbox"/>
	Engineer Comment		Input/Output <input type="checkbox"/>	Keypad <input type="checkbox"/>	RS 422 Com <input type="checkbox"/>
5			RS 232 Com. <input type="checkbox"/>	Power <input type="checkbox"/>	Card Reading <input type="checkbox"/>
	Engineer Comment		Input/Output <input type="checkbox"/>	Keypad <input type="checkbox"/>	RS 422 Com <input type="checkbox"/>
Manufacturer's Verification					
Product Defective :			Installation Error :		
User's Misuse :			Connection Error :		
Communication Error :			Others :		
Packing Details					
Dimension(L:W:H) :		30 * 25 * 80	No. of Units:		20
Net & Gross Weight :		150g	No. of Boxes:		2
Requested by: XXXX YYYY Signature of Buyer			Received by: _____ Signature of IDTECK		

16. Warranty and Service

The following warranty and service information applies only to the United States of America and Republic of Korea. For the information in other countries, please contact your local distributor. To obtain in or out of warranty service, please prepay shipment and return the unit to the appropriate facility listed below.

IN THE UNITED STATES

RF LOGICS Inc. Service Center
Headquarters and Western Region
370 Amapola Ave, #106
Torrance, CA 90501
Tel: (310) 782-8383
Fax: (310) 782-8298
E-mail: rflogics@rflogics.com
Web-site: www.rflogics.com

OUTSIDE OF THE UNITED STATES

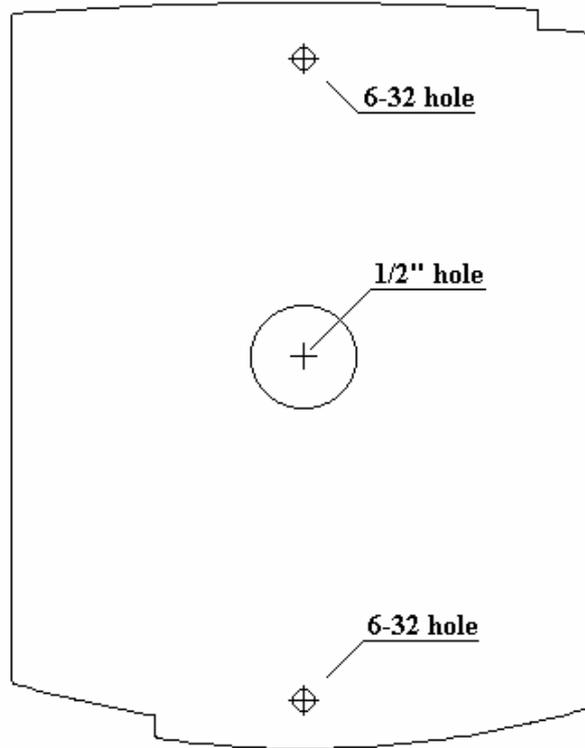
IDTECK CO., LTD. Service Center
5F Ace Techno Tower B/D
684-1 Deungchon-Dong, Gangseo-Gu,
SEOUL 157-030, KOREA
Tel.: +82 (2) 659-0055
Fax.: +82 (2) 659-0086
E-mail: webmaster@idteck.com
Web-site: www.idteck.com

Please use the original container, or pack the unit(s) in a sturdy carton with sufficient packing to prevent damage, include the following information:

1. A proof-of-purchase indicating model number and date of purchase.
2. Bill-to address
3. Ship-to address
4. Number and description of units shipped.
5. Name and telephone number of person to contact.
6. Reason for return and description of the problem.

NOTE: Damage occurring during shipment is deemed the responsibility of the carrier, and claims should be made directly to the carrier.

17. Template





The specification contained in this manual are subject to change without notice at any time

5F, Ace Techno Tower B/D, 684-1, Deungchon-Dong,
Gangseo-Gu, Seoul, 157-030, Korea
Tel : (82) 2 2659-0055
Fax : (82) 2 2659-0086
E-mail : webmaster@idteck.com

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