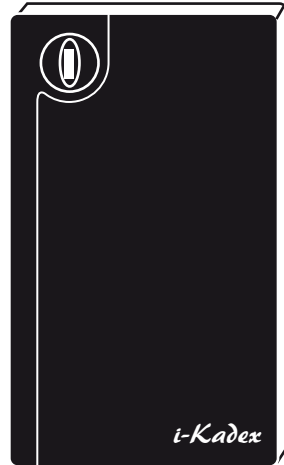


A Firm Access with
FingerTec
i-Kadex

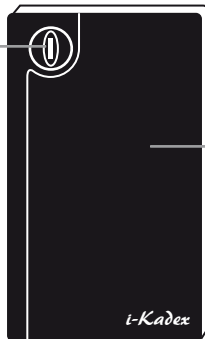


User Guide

1 INTRODUCTION

i-Kadex is a slave terminal for a card door access control system. The i-Kadex reads and captures information from a card, and sends the information to a master terminal for verification. The i-Kadex communicates with the master terminal via Wiegand 26-bit output and requires a master terminal with a Wiegand 26-bit input to accept signals from the slave.

LED Light Indicator
Red light: Indicates standby mode
Green light: Indicates that the card information is being read and sent to the master terminal for verification.

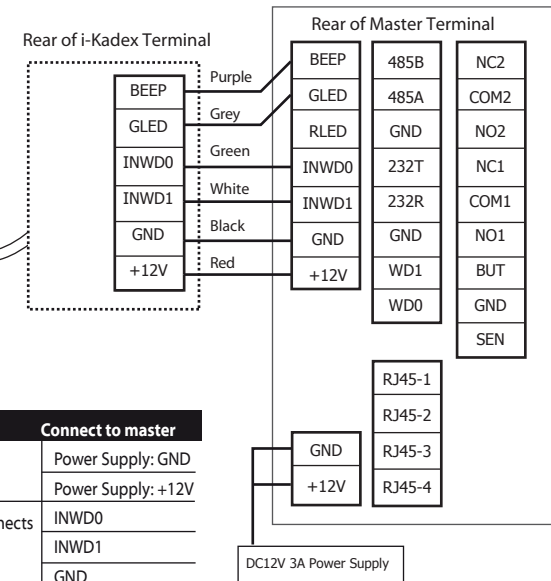


Card Scanning Area
To scan and receive card information for verification at the master reader. Default card type: RFID Card, 125kHz 40 to 80mm. Made to order: MIFARE, 13.56MHz 30 to 50mm

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2 Connections & Wiring Diagram



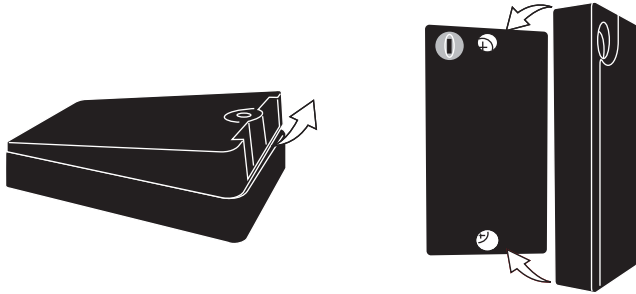
Color	Wire	Function	Connect to master
Black	GND	Supplies power (DC12V 3A) to i-Kadex	Power Supply: GND
Red	PWR		Power Supply: +12V
Green	WD0	Wiegand 26-bit output connects to the master terminal's, Wiegand 26-bit input	INWD0
White	WD1		INWD1
Black	GND		GND
Grey	LED	LED input from the master terminal	G LED
Purple	Beep	Buzzer input from the master terminal.	BEEP

Note: Only 1 black wire is provided. It can be shared for GND for power supply and Wiegand 26-bit output.

3 Installation

Note: Please read the instructions carefully before installing the i-Kadex.

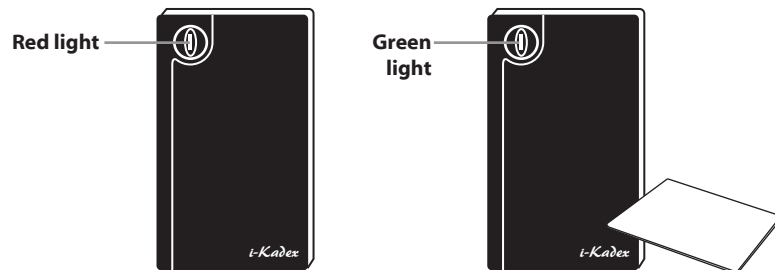
i-Kadex is powered by the master terminal, therefore requiring no extra power supply. View the details in the wiring diagram.



- 1 Remove the back piece of the i-Kadex.
- 2 Tighten the 2 screws to fix the back piece of the i-Kadex onto a wall. Place the front cover of the i-Kadex into position.

4 Verification • Card

i-Kadex is a slave terminal for a card system. It reads card ID and sends the information to a master terminal for verification. i-Kadex does not come with a memory, therefore it cannot perform card registration. Kindly make sure that card information is enrolled into the master terminal.



- 1 Make sure that the i-Kadex is in standby mode and your card has been enrolled into a master terminal.
- 2 Wave your card at the card induction area. Once the i-Kadex reads the card information, the LED will turn green and send the information to the master terminal for verification.

5 Verification • Master terminal indication

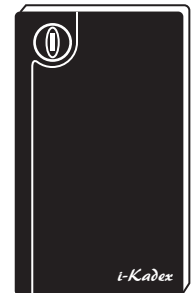
- 1 Once the master terminal verifies the card, the prompt "Verify" will be displayed.
- 2 If the card has not been enrolled or if there is something wrong with the card, the master terminal will prompt an "oo..oo.." sound indicating verification failure.

```
Verify
CARD: 0003837885
USER ID: 00001
VERIFIED
```

```
Verify PIN Card
No enroll
```

SPECIFICATIONS	
MODEL	i-Kadex
SURFACE FINISHING	Polycarbonate
TYPE OF SCANNER	RFID antenna
PROCESSOR	
MEMORY	Managed by master
ALGORITHM	
PRODUCT DIMENSION (L X W X H), mm	55 x 15 x 100
STORAGE	
• Cards	Storage in master
• Transaction	
ENROLLMENT & VERIFICATION	
• Methods	Card capturing station
• Card per user ID	
• Reading distance, mm	40 ~ 80 (RFID), 30 ~ 50 (Mifare)
• Verification time (sec)	Managed by master
CARD TECHNOLOGY	
• RFID: 64-bit, 125kHz	Yes
• MIFARE: MFIS50/S70, 13.56MHz	Made to order
COMMUNICATIONS	
• Method	Wiegand 26-bit output
OPERATING ENVIRONMENT	
• Temperature (°C)	-10 ~ 70
• Humidity (%)	20 ~ 80
• Power input	DC 12V 1A
ACCESS CONTROL	
• EM lock driving output	Managed by master
• Alarm output	
• Antipassback	

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Card