



# User Manual

Please read the following warnings before using the product.  
Shapes and colors of the images shown in this manual may differ from the actual products.

## User's guidance

- This product is certified by FCC, TELEC, PCI-PTS(V3.1), EMV L1, L2(V4.3).
- This user guide is protected by copyright.
- This user guide has been created by FLIGHT SYSTEM CONSULTING Inc. We have done our best not to create typos, editing errors, and leaving out any information.
- This product's program is legally protected. Illegal copying, transmitting, or erasing of the program is prohibited.
- This product's partial functions might have problems from the environment, user program, and other machines.
- The radio equipment can't be used for life saving services because there is possibility to have radio interference and failure.

# Contents

|                                     |    |
|-------------------------------------|----|
| Warnings Before Using Product ..... | 4  |
| Tips for using product .....        | 5  |
| Quality assurance .....             | 5  |
| Package contents .....              | 5  |
| Overview .....                      | 6  |
| LCD Display .....                   | 7  |
| Using cards .....                   | 8  |
| Using the barcode scanner .....     | 9  |
| How to Charge .....                 | 10 |
| Specification .....                 | 11 |

# Warnings Before Using Product



**Do not press power button on the device or touch the charging cable with wet hands.**

Risk of electric shock



**Please avoid vibration or impact on the device. When the device is not in use, unplug the USB cable and put it in a safe place where it won't drop.**



**Do not disassemble the product arbitrarily and remove the battery**

It may cause battery explosion in case battery is disassembled from the product and stored.



**Do not use your device at an explosive danger zone.**

It may cause ignition, explosion



**In case your device is wet, do not put your device in heaters, microwaves or etc to dry out your device.**

There is a risk of explosion or it can be the cause of malfunction.



**Do not use in places of high temperature and high humidity.**

The following can be the causes of malfunction: getting wet from the rain, spilling drinks, and taking it in with you at the sauna (high temp). In these cases, you cannot receive your free repair service.



**Do not remodel, take apart, or repair the device. Please take your device to an authorized service center.**

If not the case, you will not be able to get your free repairs.

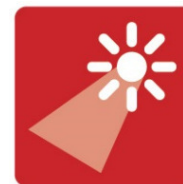


**Please follow instructions when using the battery.**



**Use caution when around other electronic devices with possible high frequency or electro-magnetic effects e.g. Audio, etc.**

Doing so will lead to the risk of product malfunctioning or a system error occurring.



**Avoid exposing product to direct sunlight.**

Do not use product in areas of high humidity. Doing so may cause low reliability and/or operational malfunction.



## **WARNING**

This information is for your own safety. Please observe the following precautions.

# Tips for Using Product

## Quality assurance

Guarantees for our mobile payment product and its parts against defects, under proper use, for a standard period of 1 year from the original date of purchasing.

## Package contents

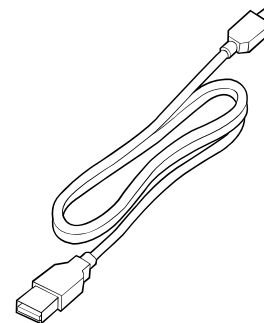
Please make sure you have the right contents when open the package.



Brain



Charging CRADLE



Charging Cable



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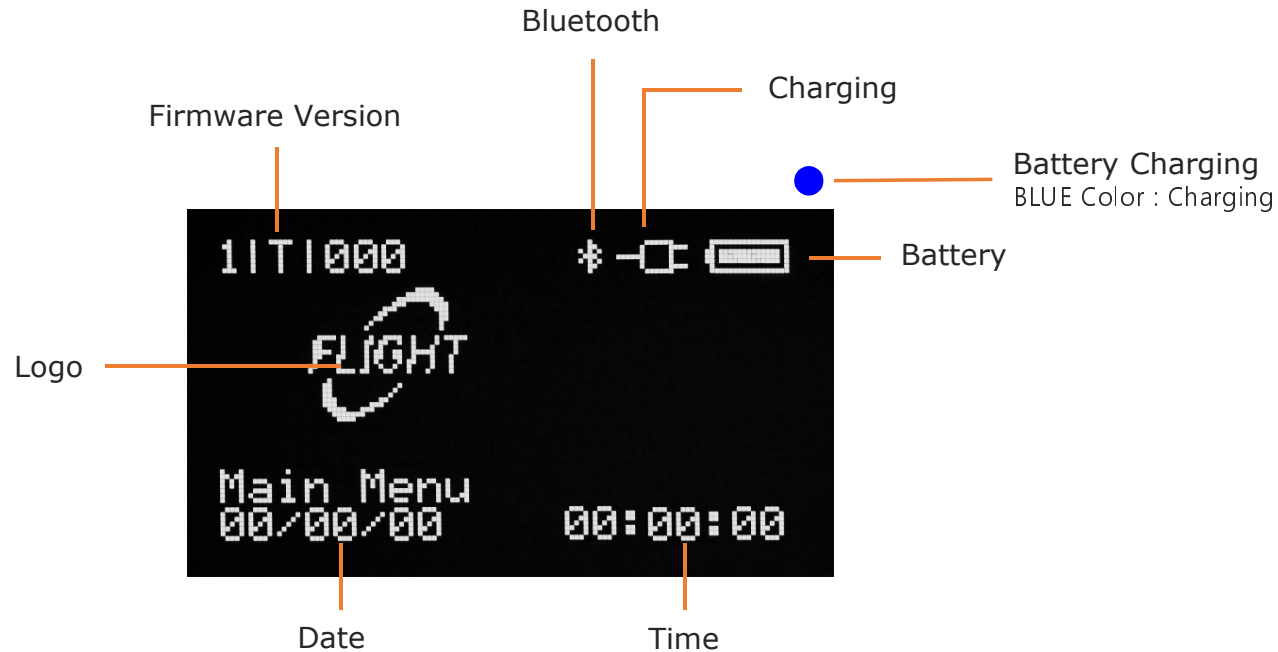
- The illustrations may differ from your actual items.
- If any items are missing or damaged, please contact us or your dealer for assistance.
- User manuals are available for download at <http://www.incredist.com>

# Tips for Using Product

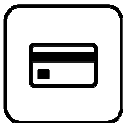
## Overview



## LCD Display



### LED



**RED**  
MSR Read Mode



**BLUE**  
EMV Read Mode

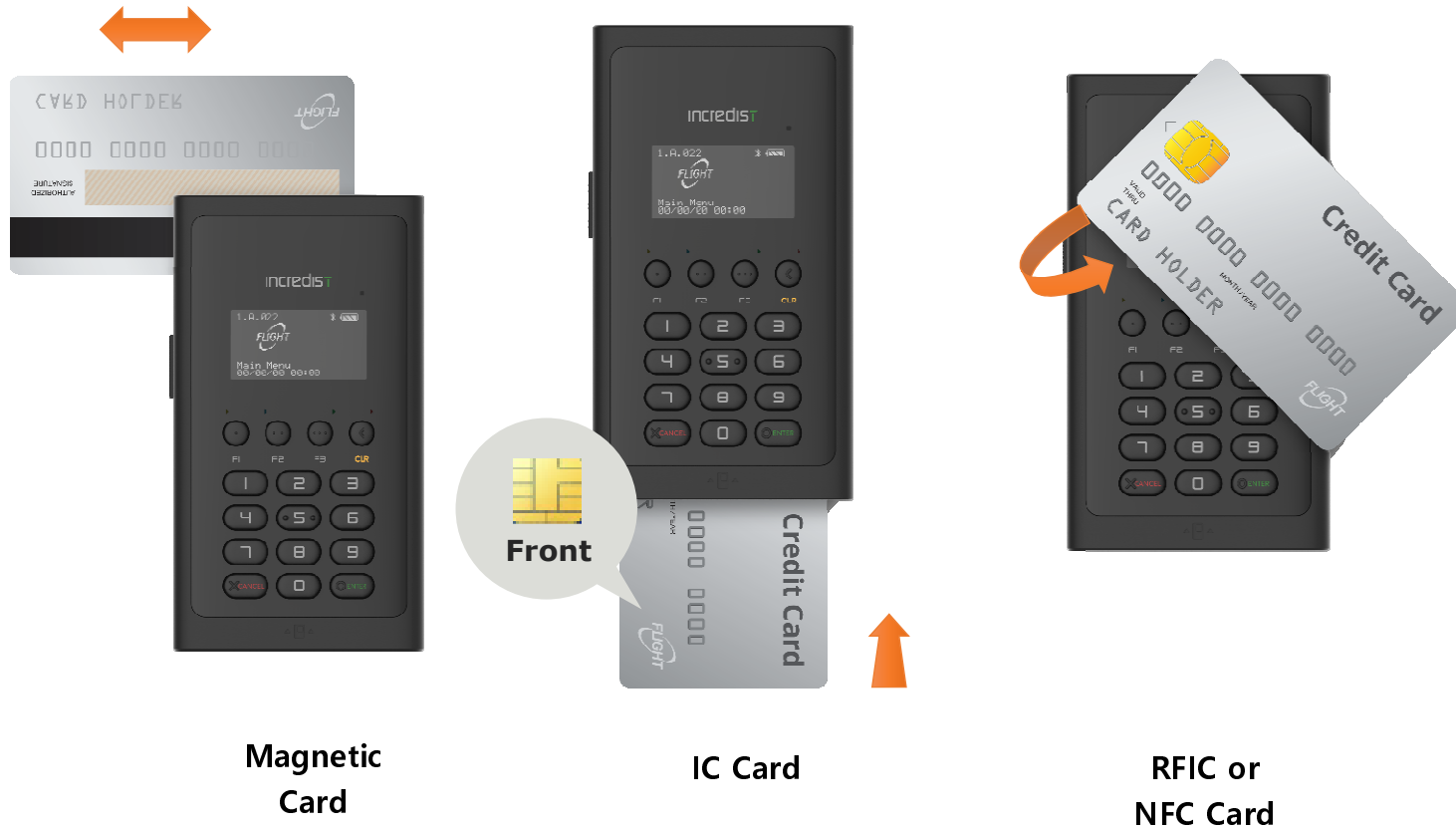


**ORANGE**  
Barcode Read mode



**GREEN**  
Contactless Mode

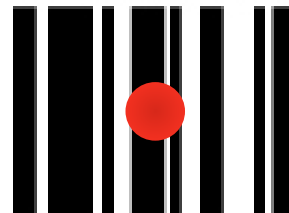
## Using cards



## Using the barcode scanner

Laser aimer appears from the embedded barcode scanner right of top on the brain when barcode command is sent.  
Barcode usage procedure is as follows.

1. Beep the [SCAN] button pushed rear side of brain.
  2. Move the aiming position to the center of the barcode.
  3. Adjust the distance between the brain and the barcode  
For normal barcodes, position the aimer at a distance is 10~12cm.
  4. Keep aiming position to the center of the barcode until you hear a beep.
- ※ If the barcode scanner reads the barcode, you will hear a beep.



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- If laser aimer disappear, press barcode button on the brain. Then laser aimer will appear again.  
(it is applied Barcode mode is operating only)

## How to Charge



Using Micro USB charging adaptor



Using charging CRADLE)



- Please use 5V/500mA charger.
- Please make sure that turn off brain's power during charging

## Specification

| Feature        |                        | Parameters                                             |                                 |
|----------------|------------------------|--------------------------------------------------------|---------------------------------|
| MCU            |                        | Secure MCU                                             |                                 |
| Memory         | Flash                  | 1 Mbyte                                                |                                 |
|                | SDRAM                  | 256 Kbyte                                              |                                 |
| LCD Screen     | Screen Size            | 2.3"                                                   |                                 |
|                | Pixel                  | 128 X 64 DOT                                           |                                 |
|                | Characters             | 8 Line, 16 Characters (each line)                      |                                 |
| Card readers   | Mag stripe Reader      | ISO7810/7811, RAW Mode support, 3 Track encrypted Head | Bi-directional swipe            |
|                | Smart Card Reader      | ISO7816, 1 Slot, on/off line support                   | EMV Compliant, JIS I/II         |
|                | Contactless Reader     | 13.56MHz, ISO/IEC 14443 A/B Type, Felica               |                                 |
| Socket         | SAM                    | None                                                   |                                 |
| Pin Pad        | KEYS                   | 13 Keys & 3 functional keys                            |                                 |
|                | Method                 | Physical                                               |                                 |
| Encryption     |                        | RSA1024, RSA2048, DES, T-DES, AES128, AES256           |                                 |
| Key Management |                        | DUKPT, Fixed                                           |                                 |
| Buzzer         |                        | Yes                                                    |                                 |
| LED            |                        | 5ea                                                    | 2xBlue, Red, Green, Orange      |
| Barcode Reader |                        | Zebra SE4710 2D barcode                                | PDF-417, microPDF-417, QR, etc. |
| Connectivity   | Wireless communication | Bluetooth 4.0 (BLE)                                    |                                 |
|                | Terminal connectivity  | micro USB                                              | USB full speed                  |
| Battery        |                        | Li-ion Battery, 3.7V, 920mAh                           |                                 |
| Dimensions     |                        | Appox. 120(L) x 28(H) x 66(W)mm                        |                                 |
| Weight         |                        | 170g                                                   |                                 |
| Power Charge   |                        | 2 hour                                                 | 5V/500mA                        |
| Environment    |                        | 0°C / 10% ~ 50°C / 90%                                 |                                 |
| Certification  |                        | FCC, CE, PCI-PTS(V4.0), EMV L1, L2(V4.3)               |                                 |

## **FCC Information to User**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. 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 equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## **Caution**

Modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**FCC Compliance Information :** 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 undesired operation

This equipment is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

### **European Union Regulatory Notice**

Compliance with these directives implies conformity to harmonized European standards (European Norms) that are listed in the

EU Declaration of Conformity issued by Inkel corporation for this product or product family. This compliance is indicated by the following conformity marking placed on the product.

**CE 1177**

**The wireless telecommunications functionality of this product may be used in the following EU and EFTA countries:**

Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, and United Kingdom.

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