D-Think®

1 Introduction

D-Think Technologies,Inc. Launch of long-range LF handheld reader long-range LF handheld reader (D-Think_X10-LF), it has the following characteristics:

1) Tag formats supported: EMID、FDX-B（ISO11784/11785）,FDX-A

2) Reading distance: 12mm*2mmGlass tag—EMID, FDX-B of 10 to 12 cm, FDX-A of 7 to 9cm; 30mm diameter animal electronic ear tag—EMID, FDX-B up to 18cm above

3) With memory function, can save more than 2,000 the number of tags

4) Support USB, Bluetooth communication

5) Has the power to monitor, low power alarm, ultra-low power automatic shutdown function, automatic shutdown no operation timeout

6) Apply to pets, pigs, cattle, sheep, fish and other livestock industry management

2 Product information

Operating Frequency: 125KHz/134.2KHz;

Screen: 16 * 2 blue background and white character LCD;

Communication: Bluetooth or USB;

Power supply: Two 3.7V lithium battery;
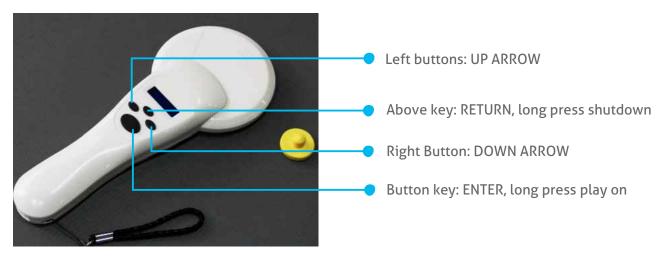
Power consumption: search label 2W, usually 0.4W;

Working temperature: -10℃ ~ 50℃;

Storage temperature: -30℃ ~ 70℃;

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3 Usage profile

1) Key:

Left buttons: UP ARROW

Above key: RETURN, long press shutdown

Right Button: DOWN ARROW

Button key: ENTER, long press play on

2) Power on › Long press "ENTER" 2S.

3) Shutdown in two ways: a) Via the menu option to shut down
                           b) handset idle state, press "RETURN" 2S

4) Automatic shutdown

The following two situations will automatically turn off

  a) **2 minutes without any operation**
     In order to facilitate communication operations, when USB or Bluetooth connection, you can send command
     to turn off the automatic shutdown function

  b) **The power is less than 0%**
     When the power is less than 0%, regardless of whether the automatic power off function turned on, will
     automatically shut down to protect the battery.

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5) Power Monitoring
 a) When the battery is below 30%, the handset warning display "Low power!", while beep 0.5S.
 b) When the battery is less than 0%, the phone warns display "No power!", while beep 0.5S, and then will
   automatically shut down.

6) Communication
   Supports USB or Bluetooth communication, see specific "D-Think_X10-LF communication protocol."

4 Menu

1) Main interface

First row from left to right: Show "B" indicates that Bluetooth is turned on
                               Show "S" indicates that the stored tag read
                               "x%" indicates current remaining capacity

Second row: LD RFID Reader

2) Menu

(1) Tag scan

Click the "ENTER" button, continuously scan tags 20S, find a tag display tag number, and a short beep loudly. If the scan is finished, did not find a tag, short beeps twice.
Long press "ENTER", the tag has been scanned until the button is released.
Find a tag display tag number, and beeps once, and wait for the button is released. If the scan is finished, did not find a tag, short beeps twice. You can press the "RETURN" to exit the process of seeking tag.

Display Description: a) If you find a tag:
                        First line: Tag type current tag storage number (open storage function will be displayed)
                        Second row: Tag number

                         b) if not find a tag - Display "No tag found"

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Tag number format:

FDXB-DEC: 15 decimal. 3 for the country code before and after the 12 international identification code.

EMID-DEC: By the tag number after 4 bytes content conversion obtained 10 decimal.

FDXA-BCD: By the tag 5 bytes (each 7 bit) content conversion obtained 10 BCD code.

(2) Tag storage option

Store: Memory read tag number
Not store: No memory read tag number

(3) Tags number – The machine can store up to 2011 tags records.

Storage: The number has been stored
Free: Remaining space

(4) Tags content

Short press: increment / decrement a tag display
Long press: the first 10 times every 200 ms increase/ decrease a tag shows, the second 10 times every 200 ms increase/ decrease 10 tags displayed after every 200 ms increase / decrease 100 tags display.

(5) Memory erase

This action will erase sector 2 to 56 all content.

(6) Bluetooth power option

On : Turn on Bluetooth
Off: Turn off Bluetooth

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(7) Auto power off option

On : Turn on auto power off function
Off: Turn off auto power off function

If no automatic shutdown feature after boot can access this menu closes. However, this configuration is not saved after shutdown, reboot will restore the automatic shutdown feature.

(8) Power off

Shutdown

(9) About

First line: product model, software version number
Second line: Company Website

5 Version

V1.03 2012-2-23

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