AgriEid Smart Stick Reader

Operation Manual

1. Introduction

The AgriEid Smart Stick Reader provides NLIS functions including reading, displaying, and transmitting electronic tag numbers to any smart phone, tablet, desktop or laptop device for storage and management.

Including Apple, iOS, Windows and Android operating systems.

This manual is intended to provide a complete overview of the AgriEid Smart Stick Reader and should be carefully read before operating the device.

2. Features

2.1. Intended Use

RFID Animal Identification and Tracking Management (NLIS)

2.2. Physical characteristics

Size of reading head:	50mm
Size of length:	45cm to 120cm
Weight:	≤0.3kg
Screen:	50mm

2.3. Environmental

Operating Temperature Range	-10 to 50 °C
Storage Temperature Range	-20 to 65 °C
Humidity Max:	90%

2.4. Electronic

Battery Capacity：3000mAh

Continuous working time 20 hours

Communication mode: Bluetooth

Frequency: 134.2 KHz

Reading range: 5-8CM

Waterproof of reading head: IP57

Compatible with the ISO Standards 11784 and 11785, with FDX-B.and HDX capability

3. Getting Started

FOR YOUR PROTECTION, please read these safety instructions completely before applying power to, or operating the system.

3.1. Unpacking

The following table lists the items which should be received :

ITEMS	INCLUDED
AgriEid Smart Stick Reader	√
USB Cable for Charging	√
AgriEid Smart Stick Reader Operation Manual	√

Each item should be examined for any noticeable defects or damage that may have occurred during shipment although it is packed carefully. If any defect or damage exists, please contact AgriEid.

3.2. Key Board Functions

The handheld keyboard is multifunctional. In different modes, it has different functions.

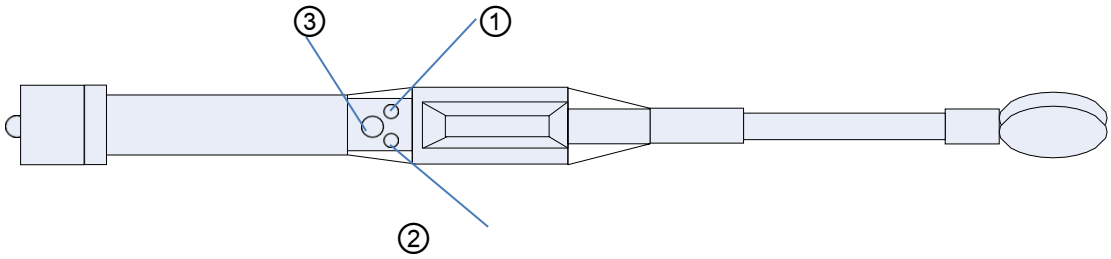

Figure3-1 The keyboard

①--- Set button

②--- Enter button

③--Power/Scan button

3.2.1. Power/scan

Press the 'Power/Scan' button to power up the reader, the version of the software will be showed on the screen. Seconds after the reader turned on, the reader begins to scan.

The reader can be turned off by hold down the 'Power/Scan' button for seconds.

You can scan by pressing the ‘Power/Scan’ button and quit the scanning operation by pressing the ‘Enter’ button.

The device will shut down automatically after 15 minutes, when not in use.

3.2.2. General Settings

Press the ‘Set’ button to enter the menu setting interface, there are 4 options you can choose (see Table 1 below). Press the ‘Enter’ button to choose the option (mark >), press the ‘Enter’ button to enter. Press the ‘Power/Scan’ button to return to the previous menu.

Table 1 - menu settings

	Option	Description
1	language	English and other options
2	Bluetooth	There are 3 modes, ’EMU KEB STD’, ’EMU KBD SMART’, and ‘BLE PERIPHERAL’. You can press ‘Set’ button to select a mode, then press ‘Enter’ button to choose the mode (the device will indicate you ‘waiting…’ for set the parameter), at last there is a mark’*’before the current mode.
3	About	Show the device information, including the SN and the version of the soft.
4	Shut down	Press the ‘Enter’ button to power off the device.

Notes for Bluetooth:

- EMU KEB STD mode: shown the data from the reader and the cursor will jump to the next line.
- EMU KEB SMART mode: besides the functions of the EMU KEB STD, the keyboard will pop automatically for operator to add information.
- BLE PERIPHERAL mode: reserved for APP connection

3.3. Bluetooth connection

You can choose any mobile device that has Bluetooth and Virtual Keyboard driven apps (Notes, Excel, Word etc) such as iPhone, iPad, Android Smartphone and Tablets etc.

Open the Bluetooth function of the mobile device, and then connect the AgriEid device called ‘Ear Tag Reader’.

Open the notes app on an iPad (for example), then create a new or open an existing note, the blinking cursor confirms the scanner is ready for receiving data from the reader.

4. Scanning

1) Press the ‘Power/Scan’ button to detect (see figure4-1).

Figure 4-1 scanning

2) If there is no tag detected in 20 seconds, the information ‘NO Tag’ and ’ press the Power/Scan button to scan’ will be shown on the screen(see figure 4-2). You can press the ‘Power/Scan’ button to detect again.

Figure4-2 No Tag

3) If a tag is detected, the tag number will be shown on the screen (see figure 4-3).

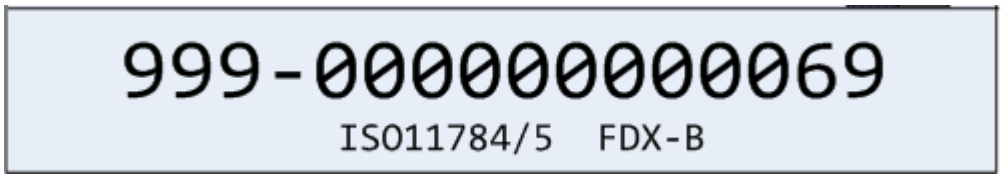

Figure 4-3 tag number displayed

4) If the Bluetooth connection is secure, the tag number will transmit to the mobile device automatically (see figure 4-4)

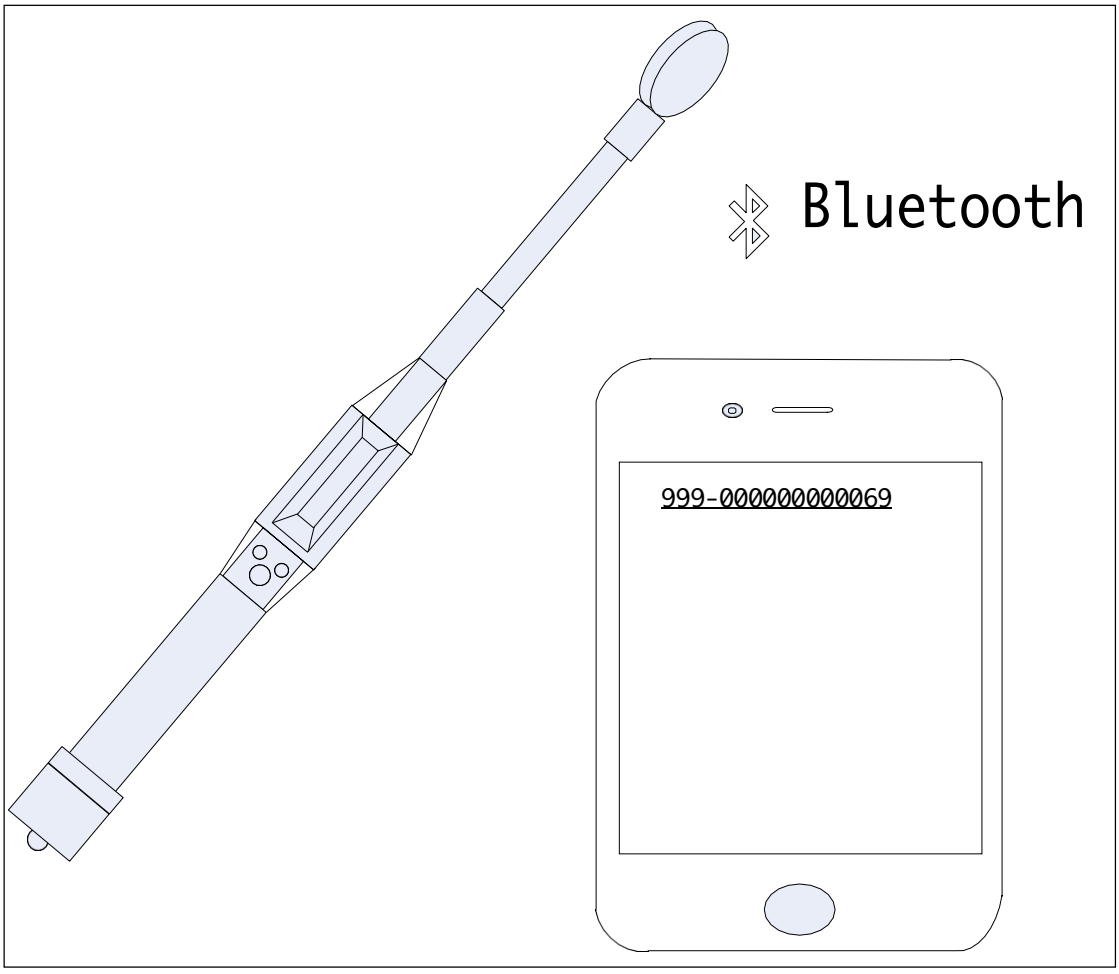

Figure 4-4 data transmission in ‘notes’ mobile app

5. Maintance

5.1. Charging

When battery goes down, it is necessary to recharge the reader. Unscrew the back cover, and then connect the USB Charger and USB Cable with the reader to charge the reader as shown in figure 5-1. When in charging, the battery indicator light will be green.

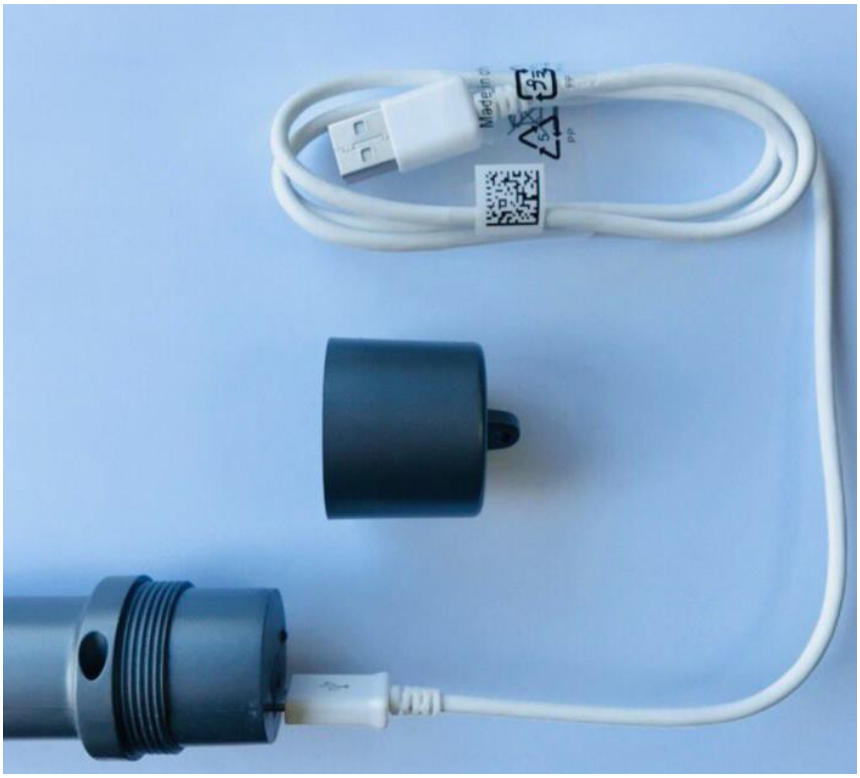

Figure 5-1 charge the reader

To see the status of charging, turn on the reader.

If the battery indicator bar is 100% lit and the flash sign is not blinking this means the battery is fully charged. Unplug the USB cable and screw the cover back on the device.

5.2. Cleaning

Periodic cleaning of the reader is required. The reader can be cleaned by soft cloth or paper or water directly at the reading header. The reader with the waterproof level of IP67 andcan be washed using clean water.

5.3. Storage

When not in use the device should be protected from dust, water and temperature extremes.

5.4. Maintenance

1) The AgriEid Smart Stick Reader needs to be taken good care of during and after use.
2) Do NOT drop it from high level.
3) Prevent high pressure from being applied to the screen.
4) Regularly charge the battery.