Operation Instruction for Sveaverken MooCollar

SCN200

Sveaverken Svea Agri AB

Contents

Safety Precautions

Routine

- Please read the operation instruction before the installation, adjustment, inspection and maintenance of the MooCollar and other work. Improper installation and operation may lead to serious injury, for which the manufacturer shall assume no responsibility.
- The MooCollar must be matched with the corresponding gateway; otherwise it cannot be used normally.

Warning

- Protective equipment is required for the installation, adjustment, inspection and maintenance of the MooCollar.
- Long-term use may lead to neck-tag fall-out or wear and tear. Please adjust and replace the neck strap in time to avoid physical injury to animals.
- Regular inspection and maintenance are essential for the normal operation of the device.
- If the device has to be used by children aged 8 and above, people with relatively weak extremity, sensory or mental capacity and people lacking experience and expertise, relevant personnel must receive guidance and training on safety usage specifications for the device and relevant hazardous matters.
- This device is not a toy for children!
- The cleaning and maintenance of device must not be handled by children without supervision.
- For safety, damaged device must be replaced by the manufacturer, its service agent or other qualified personnel,

Danger

- The MooCollar contains battery. Please avoid heavy extrusion and hitting.

- Please keep the MooCollar away from fire!

Product Introduction

Sveaverken MooCollar collects positioning data through GPS chip, and transmits them to the back-end server by wireless communication. Users can view the position and activity track of animals on the mobile APP or Web, and can also set an electric fence on the map, so that when the cow walks out of the fence, an alarm message will be sent to the user APP to remind the user to quickly find the lost animals, helping reduce the the losses and management cost.

The MooCollar is provided with a large-capacity lithium battery and a solar panel for battery charging, extending the service duration. The MooCollar is also designed with the anti-dismantle detection function, so that an alarm message will be sent to user APP immediately when the neck-tag is removed.

Sveaverken MooCollar Lora communication frequency band is divided into 868 MHz and 923 MHz.

Product Specifications

Specifications of Sveaverken MooCollar	
model	SCN200
Size of sensor unit (length*width*height)	123x80x33.5（mm）
Weight of sensor unit	350g
Size of clump weight (length*width*height)	86x66x30（mm）
Weight of clump weight	500g
Protection grade	IP66
Battery life	1years+
Communication mode	LoRa
GPS positioning accuracy	5-10m

Structural composition of MooCollar:

1 Sensor unit

2 Buckle

3 Neckband

4 Clump weight

Installation

1、MooCollars are generally installed outdoors and work with a gateway, which uses a power supply of AC100-265 V or solar energy. Before using MooCollars, install the gateway on a pole or on the wall and connect it to a cloud server through 4G network, WiFi, or Ethernet. The coverage radius of a single gateway is about 1.2 km. If the grazing area is larger than the total coverage of gateways, use more gateways to fully cover the grazing area. One gateway can work with 500 MooCollars. If the herd is larger than that, use more gateways.

2、A MooCollar set includes a neck strap with a metal buckle, a sensor unit and a clump weight. Open the package, and take out the above components.

3、The device shall be preassembled before wearing. Put the sensor unit and the clump weight on the neck strap, and then put the entire device on the neck of animals. First put the sensor unit on the neck strap and then the clump weight. See below for the preassembled state of device. Please note the following:

4、The picture below shows the state of device on the neck of animals, with the tail of neck strap fastened by the metal buckle to form a circle. In the preassembled state, the tail of neck strap is not fastened by the metal buckle.

5、After the equipment is put on, the top of the sensor unit faces upward (convenient for solar power supply), and the clump weight faces the bottom

6、The relative position of the sensor unit and the clump weight on the neck strap should be adjusted according to the neck circumference. After the MooCollar is put on the neck of animals, fasten the neck strap. The sensor unit shall be on one side of the neck, the clump weight right below the neck, and the buckle on the other side.

7、After the neck strap is fastened, there should be space left between the neck strap and the neck of animals, otherwise it may be uncomfortable for the animals. Under serious circumstances it may even lead to injury. The space between the neck strap and the neck should be enough to fit an adult's fist in (about 8cm).

8、The duty cycle was not exceeded 0.1% in a period of 1 hour.

Instructions of APP

Login

1. Get your account and password from the manufacturer or dealer.

2. Enter the account and password.
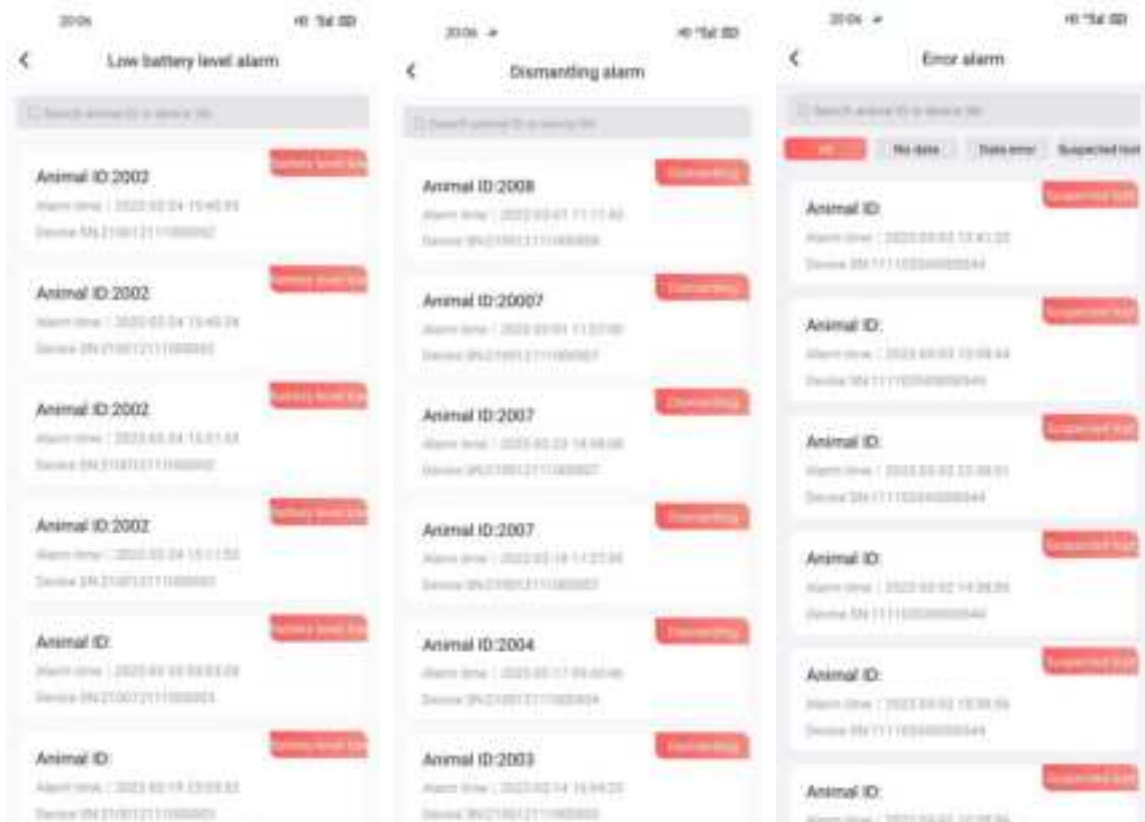
3. Tap login to start using the app.

Homepage

1. The homepage shows locations, alarms, and collar wearing of all animals.

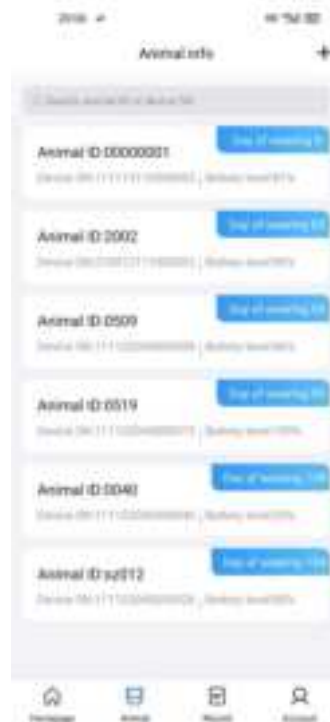2. Tap Homepage, Animal, Record, and Account to change the screen.

3. Tap Low battery level alarm, Off-boundary alarm, Dismantling alarm, or Error alarm to view the corresponding alarm records.
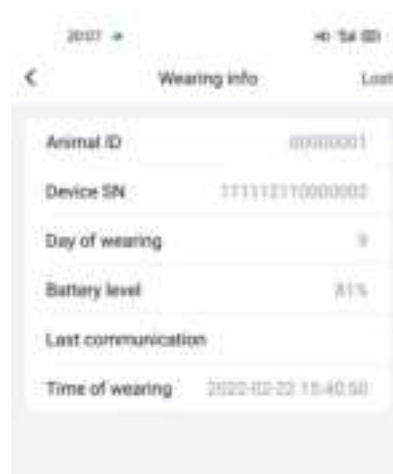
Animal Management

1、Tap Animal to open the Animal info screen.

2、Tap + at the top right to enter Wearing Collar screen. You can enter the animal ID or device SN, or scan the QR code to get the collar information.

1、 Tap an entry in the Animal info screen to open the Wearing info screen of this collar and view the detailed wearing information.
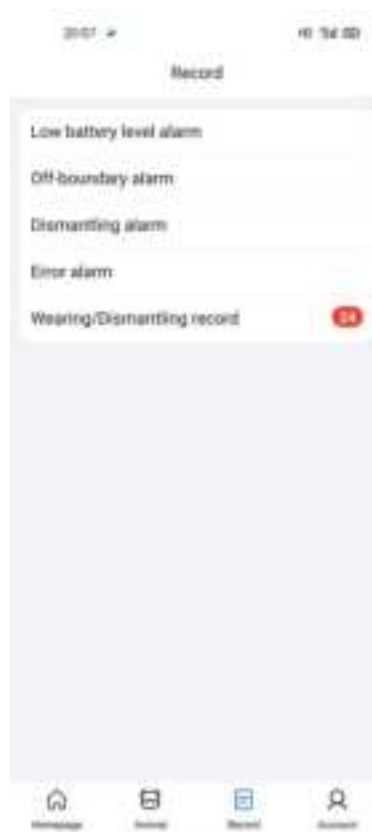

2、 If you tap Lost, a reminder message "Check if collar is lost. Animal info of lost collar cannot be found in animal list." pops up. Tap Cancel or Lost to complete.

Record

    1. Tap Record to open the Record screen, which shows the Low battery level alarm, Off-boundary alarm, Dismantling alarm, and Wearing/Dismantling record. Tap one alarm type to view details.
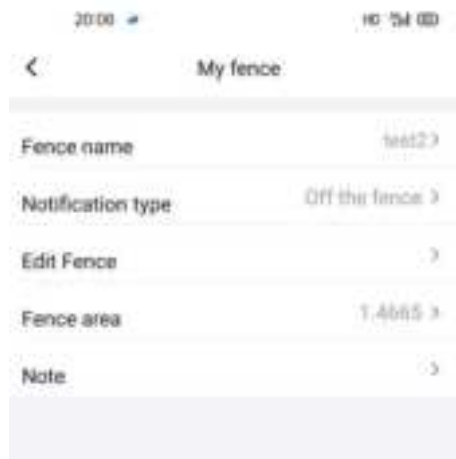

Account

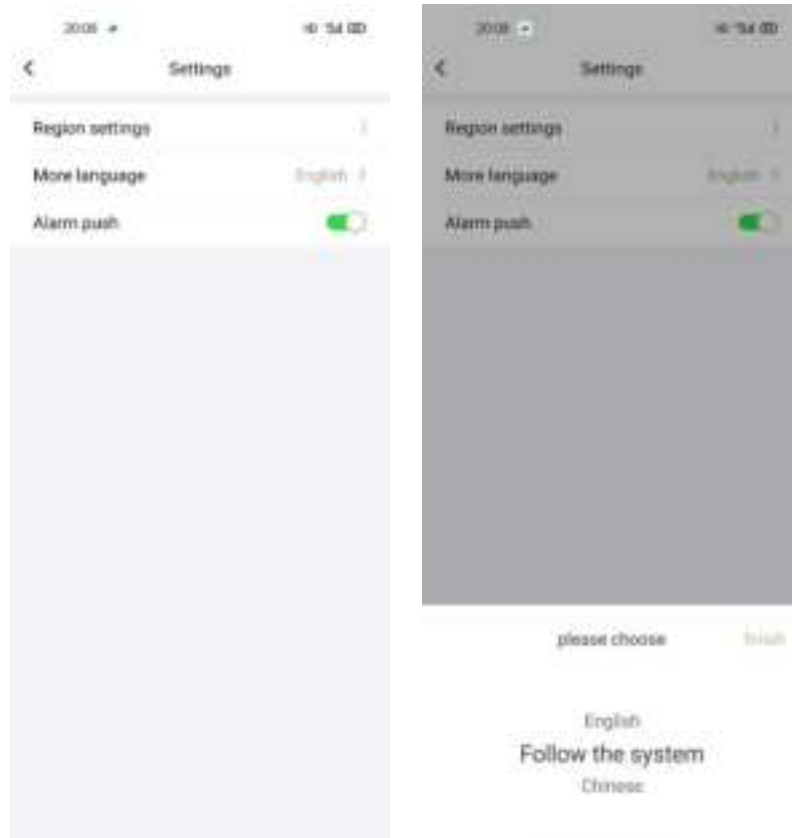   1、 Tap Account to open the following screen.

2、Tap My farm to set the farm name, organization code, contact, contact telephone number, and farm address.

3、 Tap E fence to open the screen to set the fence name and edit the fence. The system automatically calculates the area inside the fence.

4、Tap Settings to set the region, language, and alarm push. Tap More language, select a language, and tap finish.

5、 To change your password, enter the old password and the new password, and enter the new password again to confirm, and then tap Save.

Disclaimer

Sveaverken bears no joint and several liability for any damage caused by the following conditions in operation:

1. Accidents caused by improper storage, such as placement of battery or other parts in fire, or making the battery and other parts within the reach of children;

2. Damages caused by problems such as improper operation (incorrect wearing, incorrect operation in the app, intentional damage, and other destructive behaviors), and installation not compliant to the operation guide, or uses in fields other than animal husbandry;

3. Damages caused by force majeure events (such as fire, flood, earthquake, lightning, mud avalanche, and nuclear leakage), or damages caused by farm animals, wild animal attack, insect disaster, livestock disease, or other similar natural factors (including but not limited to entry of corrosive liquid, scratches, and strong radiation);

4. Failures or damages caused by tampering, change of specifications, or installation, addition, or extension of parts that are not sold, authorized, or recognized by Sveaverken; and

5. Accidents caused by improper use of this product, or negligence, breach of contract, defamation, or infringement of copyright or other intellectual property rights, and any loss incurred thereby, except for those expressly stated by Sveaverken.

Common Faults and Solutions

Product	Fault	Solution
MooCollar	Failed to connect to the gateway and activate the MooCollar.	Shake the MooCollar to activate it for the first use.
	Low battery level alarm upon the connection.	Check the battery, and charge the MooCollar with the magnetic charging cable if necessary.
	The neck strap is severely worn.	Replace it if necessary.
	The MooCollar is not in the right position as the neck strap is loosened.	Tighten the neck strap.
	The housing of the sensor unit is worn.	Remove it and contact the manufacturer or dealer.
	The gateway fails to receive any data after the connection is established.	Check the gateway and its configurations.
Gateway	The power indicator of the PoE adapter is off.	Check whether the power supply works normally.
	The power indicator of the gateway is off.	Check whether the PoE and the network cables are normal.
	The network indicator is off, and the gateway cannot connect to the network.	Check the network or network cables.
	The system indicator is solid red.	Contact the technical support.
	The LoRa indicator stays off.	Check the gateway configurations and whether there is any activated collar nearby.
	Unable to log in the gateway	Check whether the IP address

	through Web connection.	is correct.

FCC statements:

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.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or changes to this equipment. Such modifications or changes could void the user's authority to operate the equipment.

NOTE: 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 or more 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.

Federal Communication Commission (FCC) Radiation Exposure Statement

When using the product, maintain a distance of 20cm from the body to ensure compliance with RF exposure requirements.

CE statements:

Do not use the device in the environment at too high or too low temperature,
never expose the mobile phone under strong sunshine or too wet environment.
The suitable temperature for the product and accessories is -20~+55℃.

If you use a third-party charger, the recommended output voltage/current of the adaptor is DC 5V/1A, and the adapter shall be CE approval type.

CAUTION RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

RF exposure information: The Maximum Permissible Exposure (MPE) level has been calculated based on a distance of d=20 cm between the device and the human body. To maintain compliance with RF exposure requirement, use product that maintain a 20cm distance between the device and human body.

Operation Frequency	Max. Perp
863.1-869.9MHz	11.076 dBm

This product can be used across EU member states.

EU Regulatory Conformance
Hereby, Sveaverken Svea Agri AB declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.
For the declaration of conformity, visit the Web site http://www.sveaverken.com.

CE