User Manual for Smart Heat Lamp SSH100

Sveaverken Svea Agri AB

Högmossevägen 11
SE-641 39 Katrineholm
Tel: +46-150-48 77 00,
Fax: +46-150-48 77 77
www.sveaverken.com

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I. Safety Precautions

GENERAL

- Please read this manual before installing, adjusting, inspecting, and maintaining the Smart Heat Lamp. Improper installation and operation may cause serious injury, for which the manufacturer will assume no responsibility!
- Please carefully read this manual to install and use the Smart Heat Lamp.

WARNING

- The AC power supply should comply with the product specifications!
- Do not touch the hot lamp shade with your hands!
- The circuit, ammeter, and air switch should comply with the load requirements of the product!
- Wear PPEs during the installation, adjustment, inspection, and maintenance of the Smart heat lamp!
- The bulb has a service life of 8000 H. At the end the life, please contact Sveaverken to purchase a replacement to avoid affecting the lamp effect in use!
- It is quite essential to inspect and maintain the device regularly for its proper operation!
- The device which is damaged must be replaced by the manufacturer, its service agent or similar qualified team to avoid danger!

DANGER

- The bulb which is fragile must not be squeezed or hit!
- The lamp shade which is easy to deform must not be stacked or squeezed to avoid affecting the effect in use.

II. Product Introductions

Temperature Control lamps are often required for poultry or livestock breeding and greenhouses. However, the traditional lamps with only two levels of brightness control may affect the growth of poultry and livestock at high or low temperature.Smart Heat Lamp is capable of adjusting the brightness based

on the preset target temperature to keep the breeding sheds and greenhouses at constant temperature to avoid repeated manual adjustments, thus reducing contact between humans and animals and minimizing power consumption.

Heat lamps are particularly important for pig breeding.

Due to the high demand for temperature of piglets, the ambient temperature has an important effect on the growth and survival of piglets.The suitable temperature for piglets is 32~34 ℃ at birth, 30~32 ℃ during the first three days, 28~32 ℃ during the next four days, 26~28 ℃ within 2 weeks postpartum, 24~26 ℃ within 3 weeks postpartum, 24 °C after weaning, and gradually drops to the same level as the ambient environment.Traditionally, the manual adjustment of the lamp height and the repeated adjustment of brightness at the different growth stages of piglets result in huge labor costs.

The Smart Heat Lamp is capable of accurately controlling its luminous power through Smart algorithm based on the ambient temperature in real time, saving electric energy, reducing labor costs, and improving the survival of piglets and the welfare of human and livestock.

Tests show that a 175 W traditional heat lamp consumes about 1,500 watts a year, while the Smart Heat Lamp consumes only 1,000 watts a year, saving 1/3 of the cost.

Executive standard:

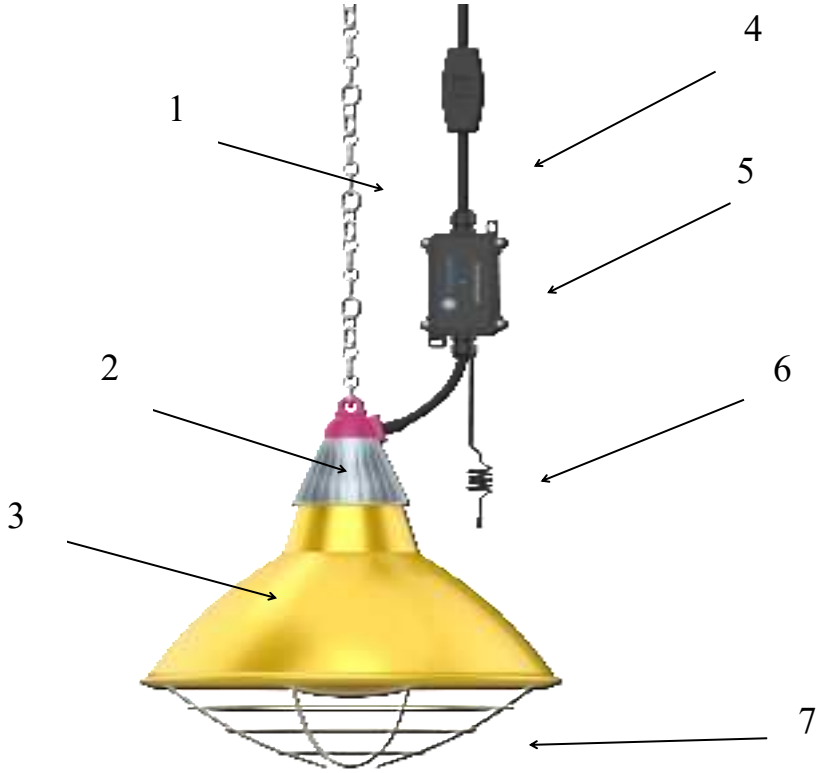
Model	Executive standard
SSH100	GBT/23140-2009

III. Specifications

Specifications of Smart Heat Lamp	
Model	SSH100
Power supply voltage	AC220V~AC240V
Rated power	175 W
Hanging chain	2 m stainless steel
Type of light source	Infrared bulb
Wire length	1.5 m/1.75 m/2 m/2.5 m
Wire specification	0.75 cm^2
Plug type	National/American standard triangle plug/customized
Dimensions	300*φ330 mm
IP rating	IPX4
Control mode	IOT
Bulb life	>5000 h

Certification	CE/PSE
Package	10 pcs/box
Remark	Lamp shades and bulbs packaged separately

IV. Device Installation



1. Device composition

1.1 Anti-rust iron chain, 2 m long, lamp height adjustable as required.

1.2 Heat-resistant lamp holder, with good flame retardance and heat dissipation effect.

1.3 Aluminum alloy lamp shade, with heat-resistant coating to prevent oxidation.

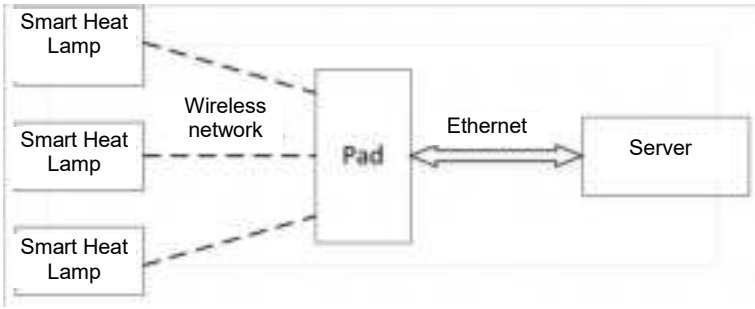
1.4 Manual switch, convenient and efficient.

1.5 Smart control box, more Smart and energy-saving.

1.6 Temperature probe, with high accuracy and large range.

1.7 Protective net, scald prevention, easy to disassemble, maintain and clean.

2. System architecture



3. Assembly steps

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<td>1. Align the fixing screws of the lamp holder with the fixing holes at the top of the lamp shade, and assemble the two components;

2. After fixing the lamp holder and the lamp shade, tighten the screws with a cross screwdriver

3. After aligning the lamp thread with the lamp base, turn the bulb clockwise, and tighten and fix it to the lamp base;</td>
<td>4. Remove the lamp protective net, and install it into the mounting groove, with one end through the net limit hole on one side of the lamp shade;

5. The installation of the protective net is completed;

6. Connect one end of the hanging iron chain to the lamp holder, and fix the other end to the hanging position;

7. The assembly of the heat lamp is completed;

8. Note that the temperature probe shall be installed 4 cm below the edge of the lamp</td>
</tr>
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		shade.

V. APP Instructions

The APP which is mainly designed for front-line team enables users to manage all lamps with one click via Pad. In addition to remote device management, it also supports the backup of the Pad local data to the cloud via the Internet.This APP greatly improves the management efficiency of heat lamps.

1. Homepage

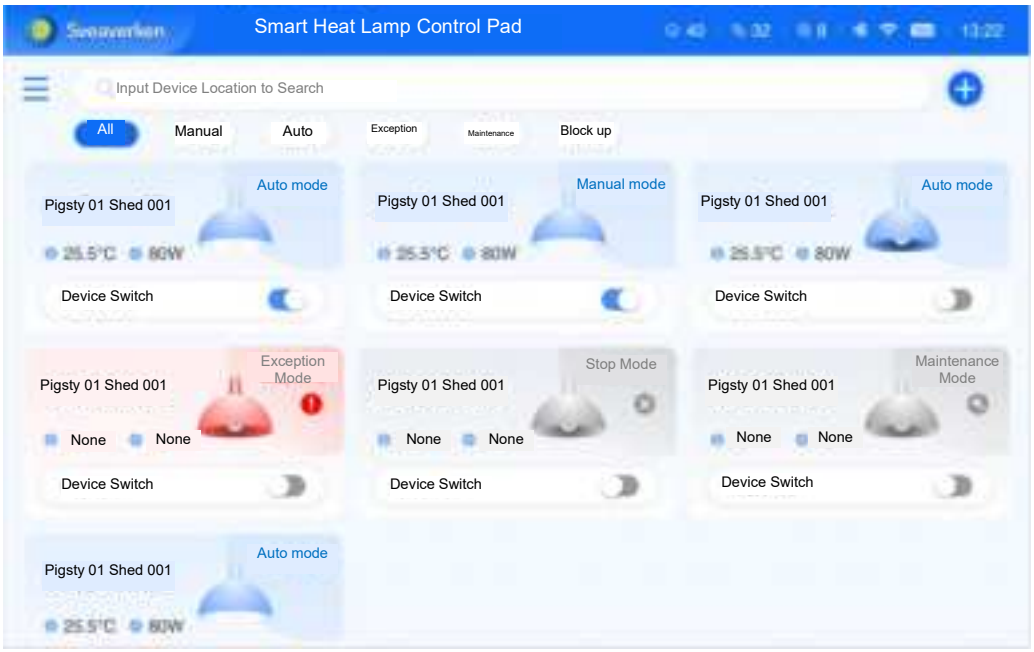
1.1 Ready-to-use in local mode without login;

1.2 Icon-based display that delivers the real-time status of devices;

1.3 Top search box where you can enter keywords to quickly select devices;

1.4. Clicking the ON/OFF icon enables you to quickly turn on/off the bulbs;

1.5 Clicking the “+” on the right of the search bar enables you to scan and add nearby devices.

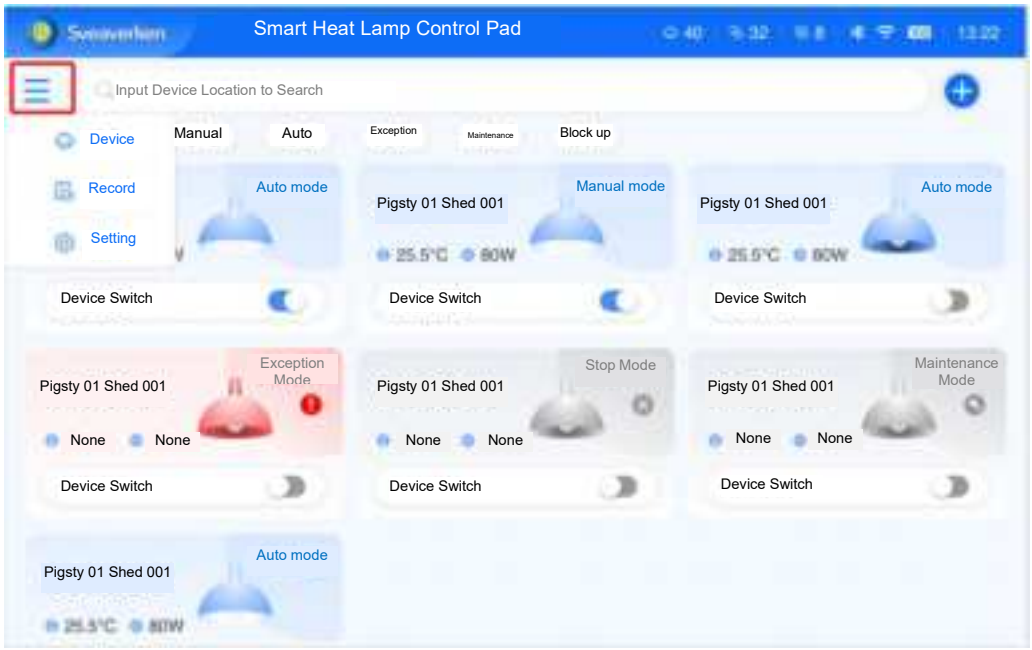


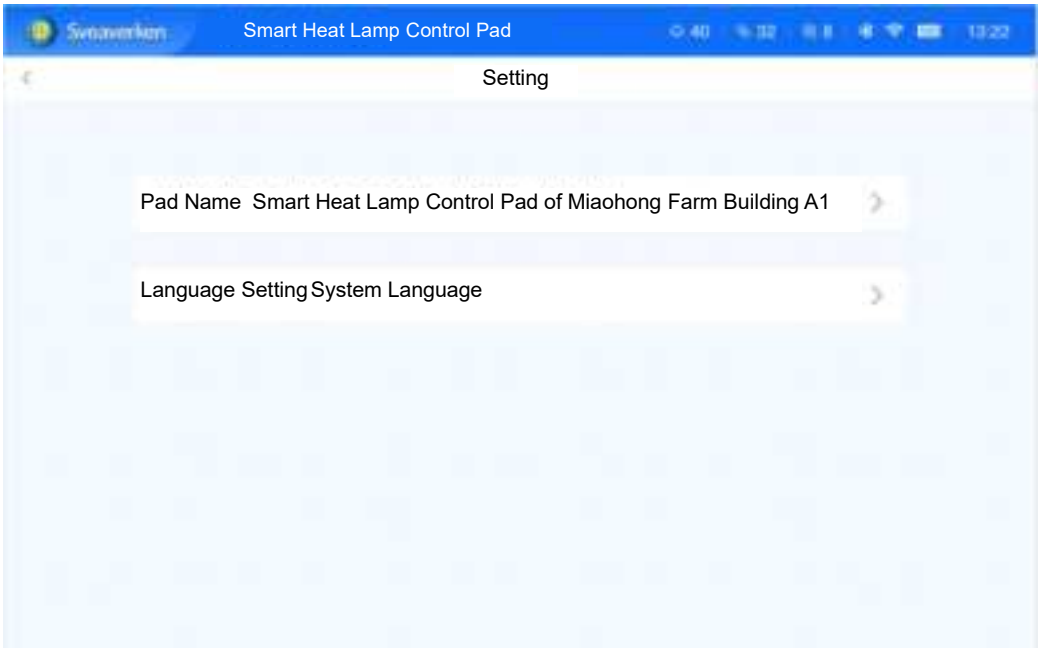
2. Language Setting

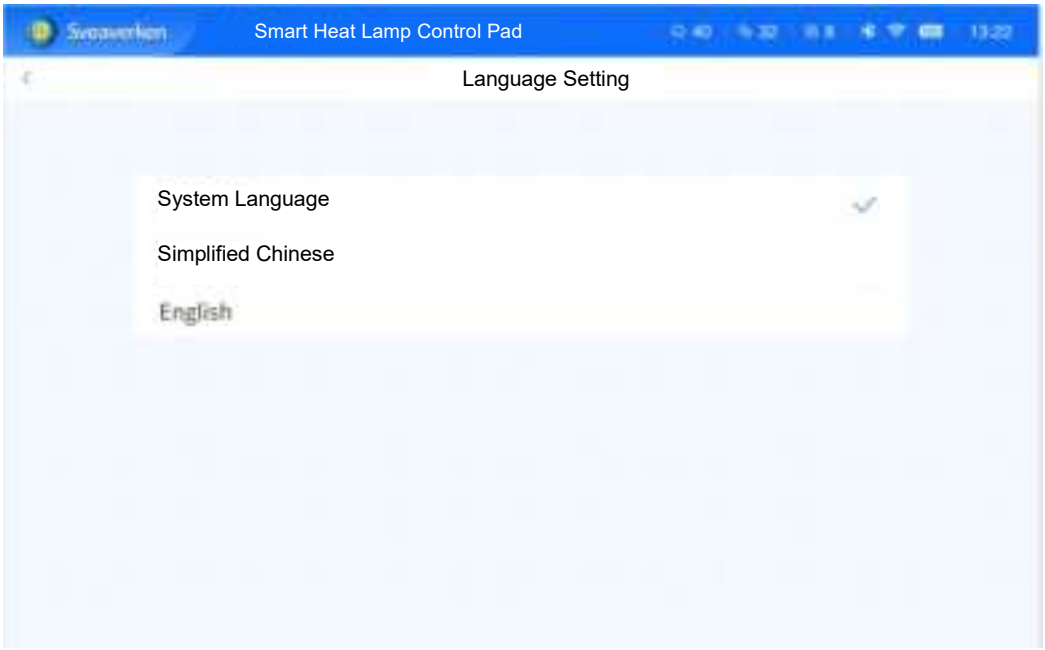
2.1 Click the navigation bar at the top of the homepage,

2.2 Go to the Setting interface

2.3 Set the language


Smart Heat Lamp Control Pad
Input Device Location to Search
Device
Record
Setting
Manual
Auto
Exception
Maintenance
Block up
Auto mode
Pigsty 01 Shed 001
Device Switch
Manual mode
Pigsty 01 Shed 001
Device Switch
Auto mode
Pigsty 01 Shed 001
Device Switch
Exception Mode
Pigsty 01 Shed 001
None
None
Device Switch
Stop Mode
Pigsty 01 Shed 001
None
None
Device Switch
Maintenance Mode
Pigsty 01 Shed 001
None
None
Device Switch
Auto mode
Pigsty 01 Shed 001

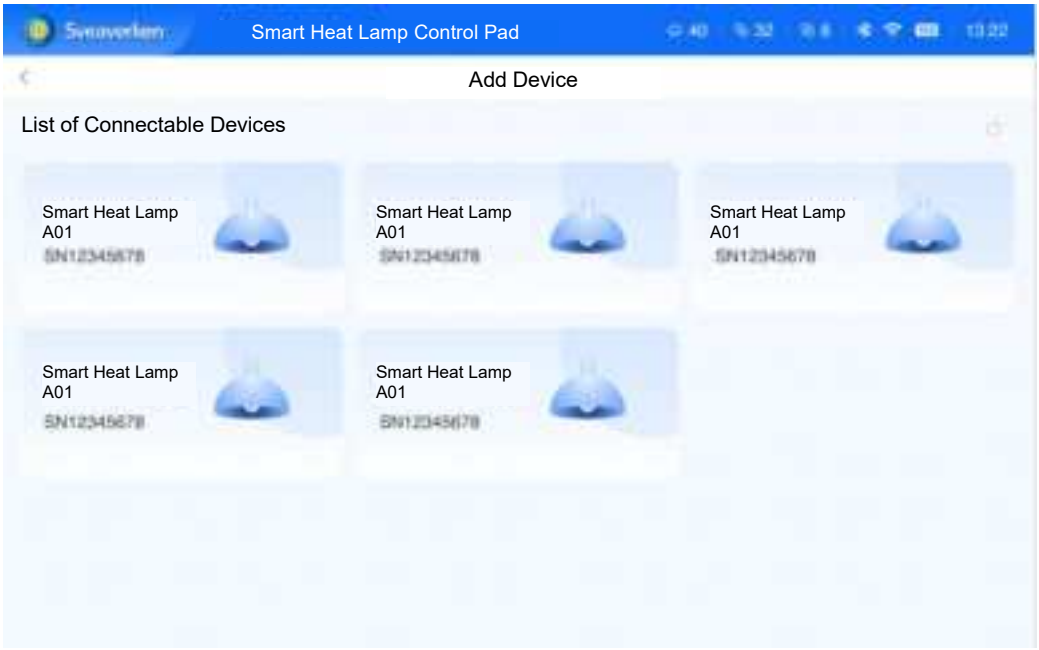

Smart Heat Lamp Control Pad
Setting
Pad Name Smart Heat Lamp Control Pad of Miaohong Farm Building A1
Language Setting System Language

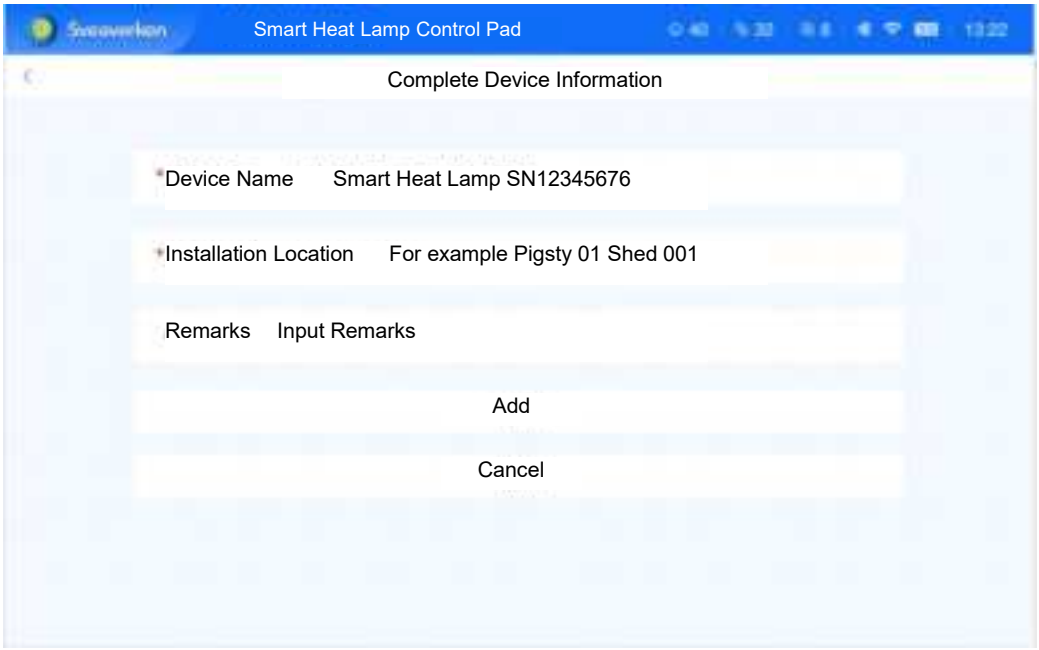


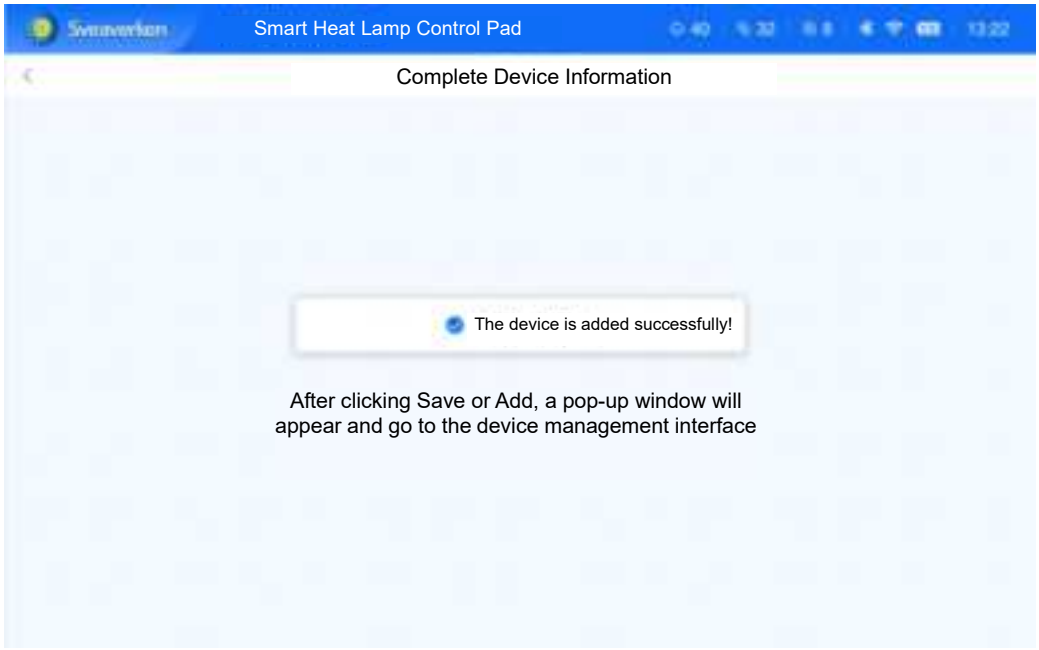
3. Device Adding

3.1 Click “+” to display a list of nearby connectable devices

3.2 Click the device icon to complete the device information.



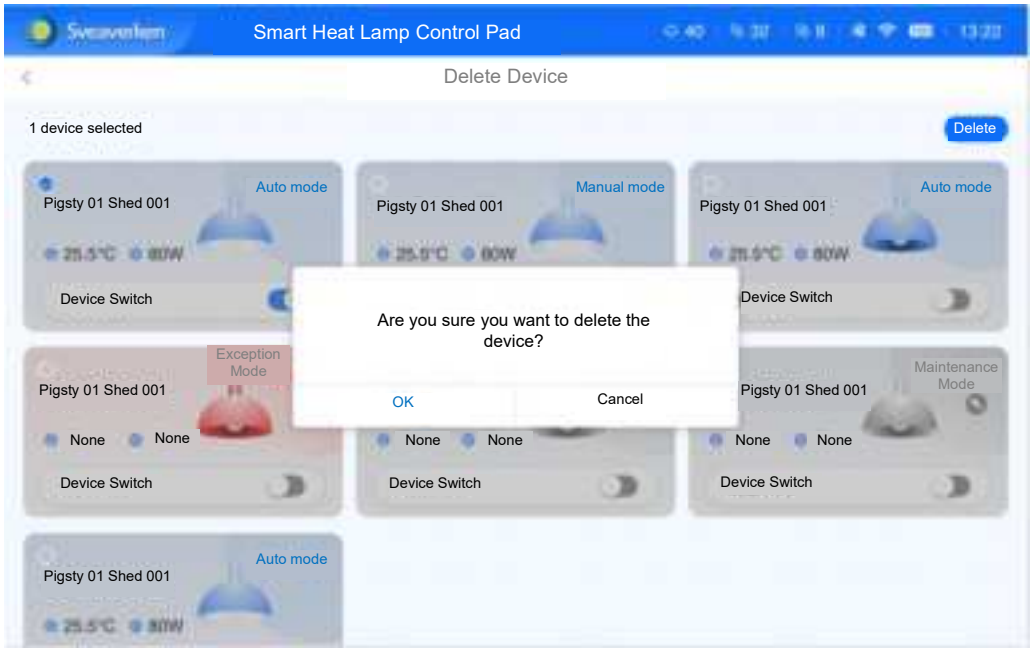




4. Device Deletion

4.1 Press and hold the icon on the homepage to go to the Delete interface

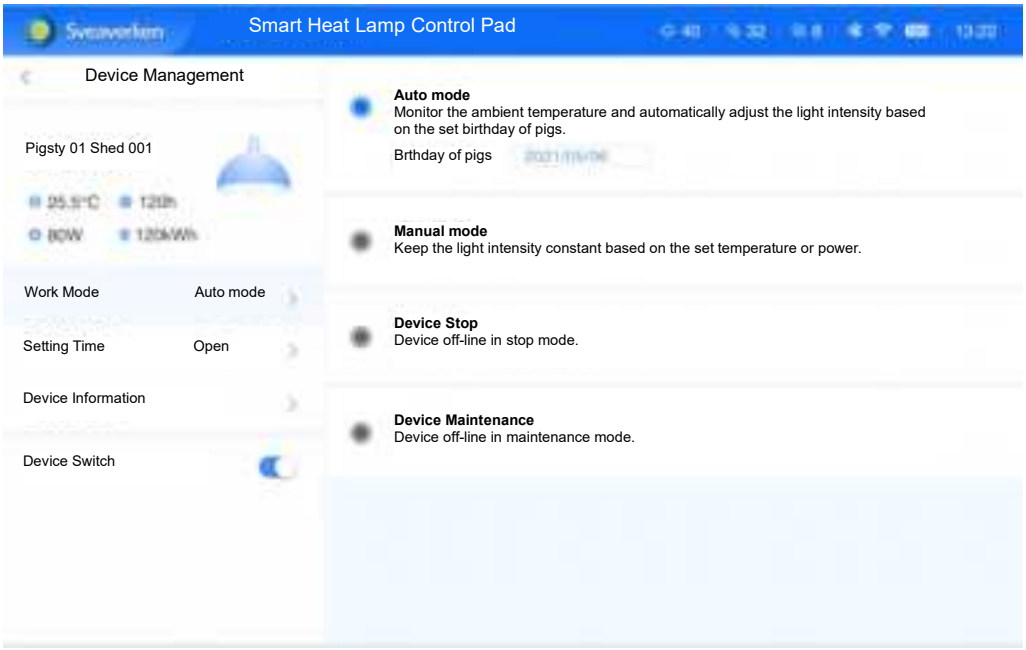
4.2 Select the device to be deleted in the dialog box and click Delete

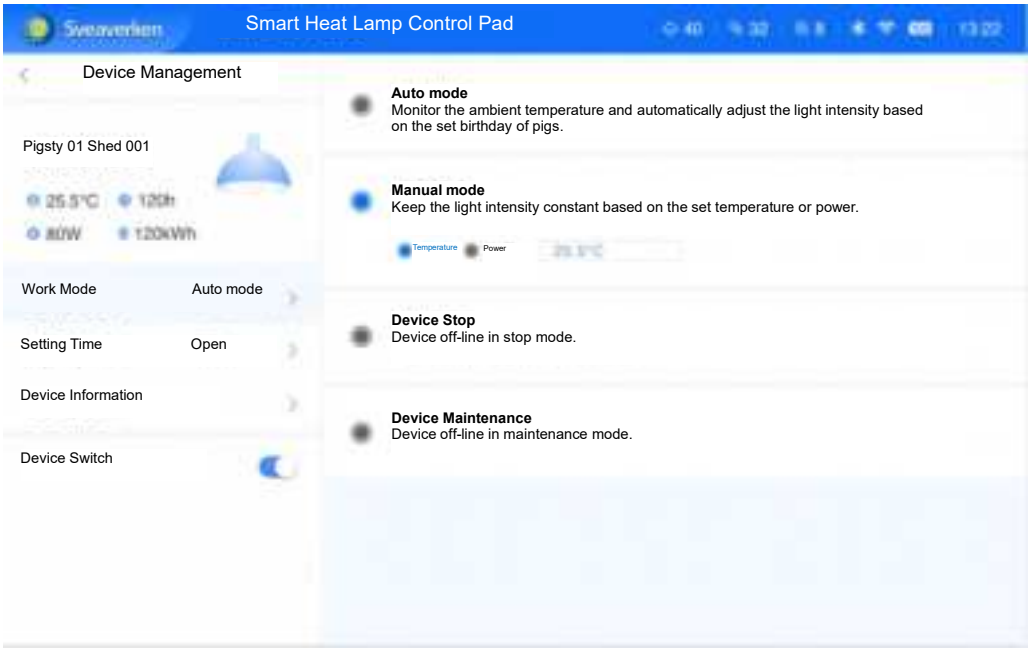


5. Device Management

5.1 Click the icon on the homepage to go to the device detail interface

5.2 Edit the device work mode, setting time, device information, and device switch


Smart Heat Lamp Control Pad
Device Management
Pigsty 01 Shed 001
Work Mode
Auto mode
Setting Time
Open
Device Information
Device Switch
Auto mode
Monitor the ambient temperature and automatically adjust the light intensity based on the set birthday of pigs.
Brthday of pigs
Manual mode
Keep the light intensity constant based on the set temperature or power.
Device Stop
Device off-line in stop mode.
Device Maintenance
Device off-line in maintenance mode.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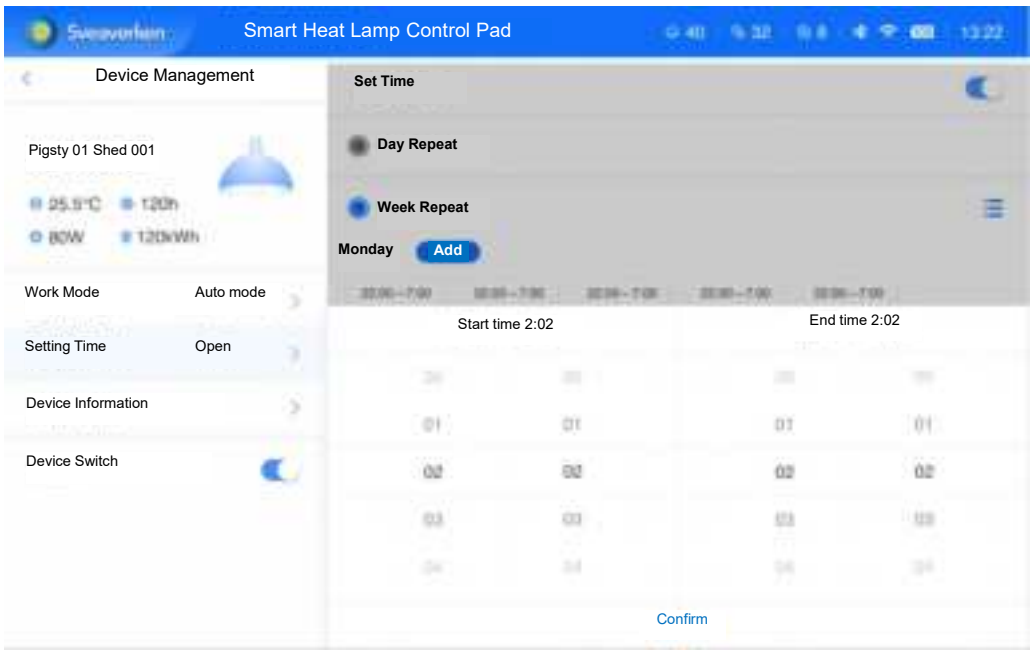
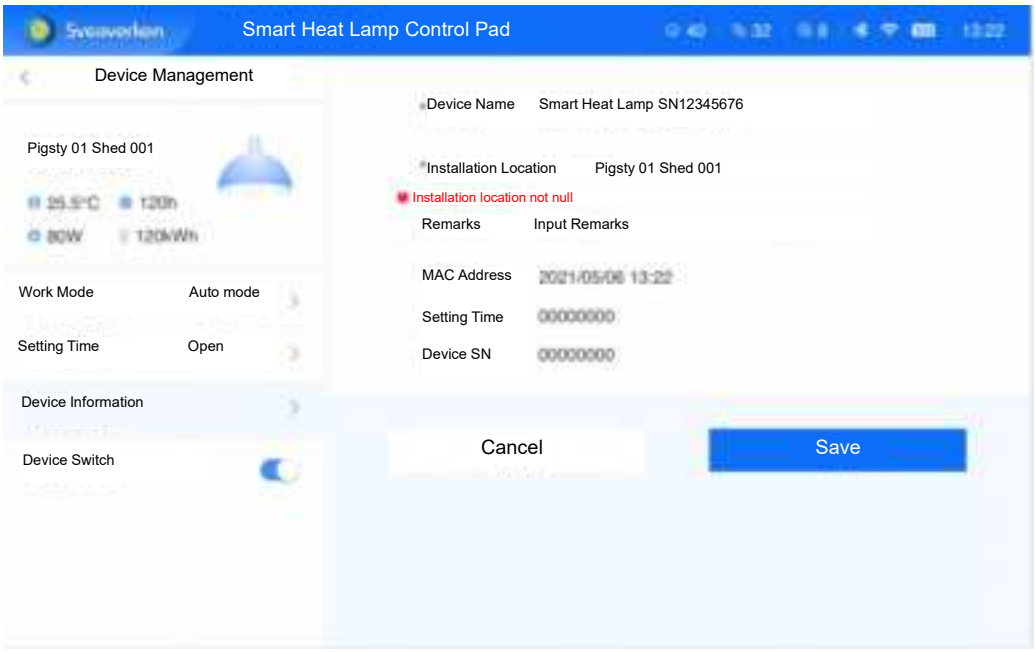
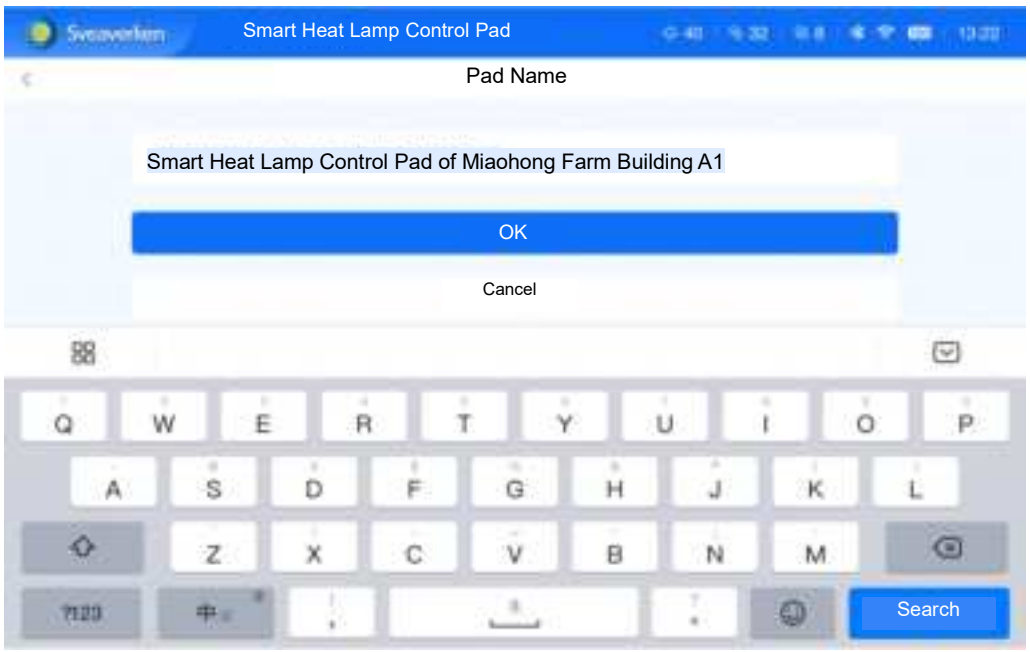
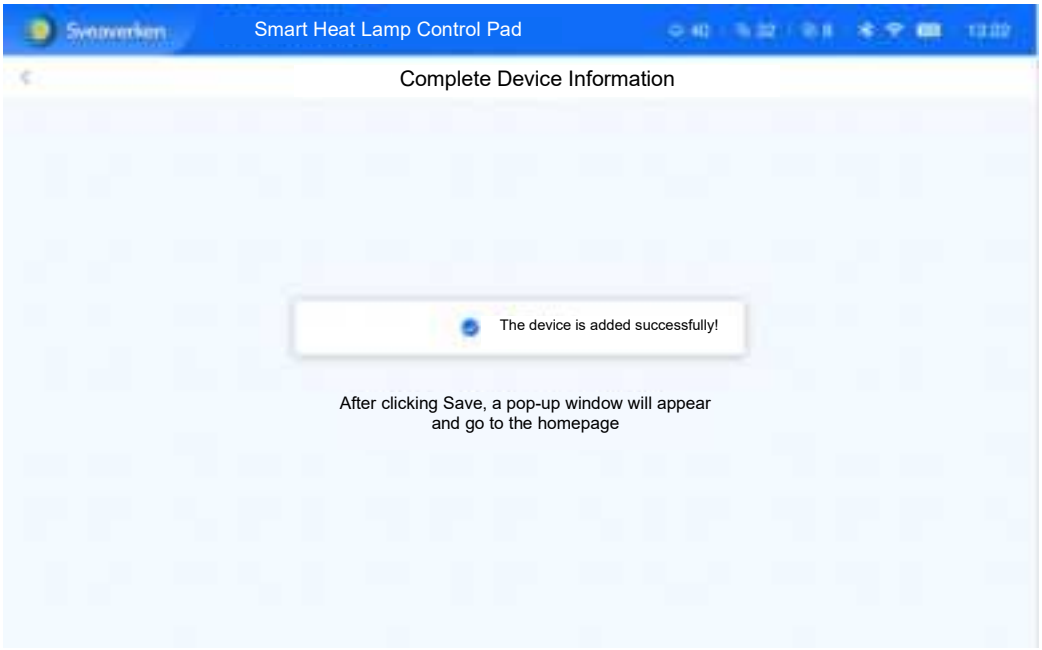




6. Information Management





7. FCC Statement BT

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.

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