

# HYDRO-PRO

Environmental Control System

Software Users Manual



# C o n t e n t s

<b>1.1</b>	<b>Registration</b>	<b>01</b>
1.1.1	Application Download	01
1.1.2	Registering an Account	02
<b>1.2</b>	<b>Binding a New Device</b>	<b>03</b>
<b>1.3</b>	<b>Mobile Applications Instructions</b>	<b>07</b>
1.3.1	Home Page	07
1.3.2	Device Details	09
1.3.3	CO2 Setting	11
1.3.4	Humidity Settings	14
1.3.5	Temperature setting	15
1.3.6	Lighting Control	16
1.3.7	General Settings	17
<b>1.4</b>	<b>Website</b>	<b>18</b>

# 1.1 Registration

## 1.1.1 Application Download

Scan and download overseas application :



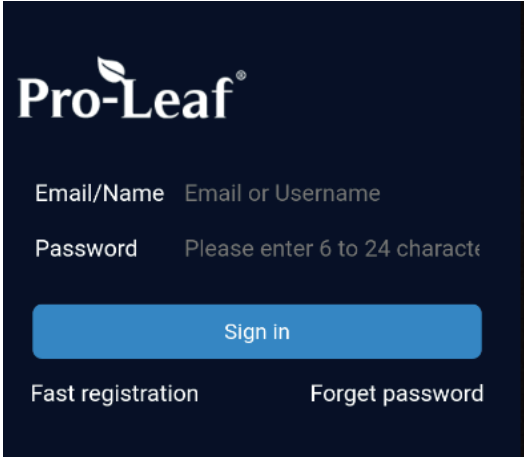
**iPhone**



**Android**

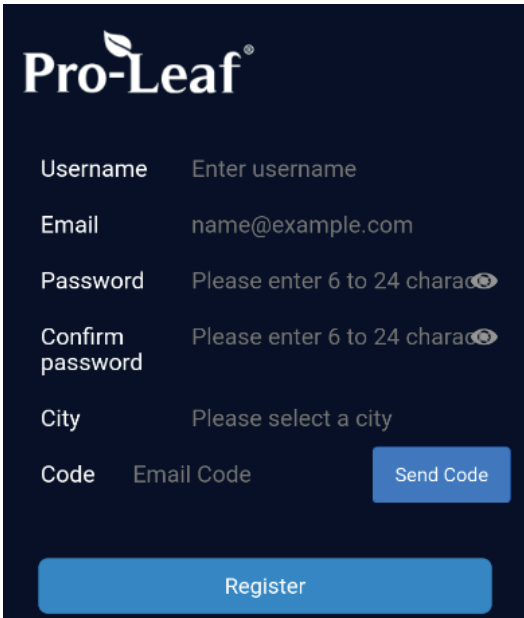
## 1.1.2 Registering an Account

Tap [ Quick Registration ] on the login interface



The image shows the Pro-Leaf login interface. At the top is the Pro-Leaf logo. Below it are two input fields: 'Email/Name' with the placeholder 'Email or Username' and 'Password' with the placeholder 'Please enter 6 to 24 characters'. A blue 'Sign in' button is centered below the fields. At the bottom, there are two links: 'Fast registration' and 'Forget password'.

Enter the Username, E-mail and Password, the APP will send the verification code by email, use the verification code in the Inbox (maybe in the spam), complete the registration with verification code, and log in the APP after successful registration.

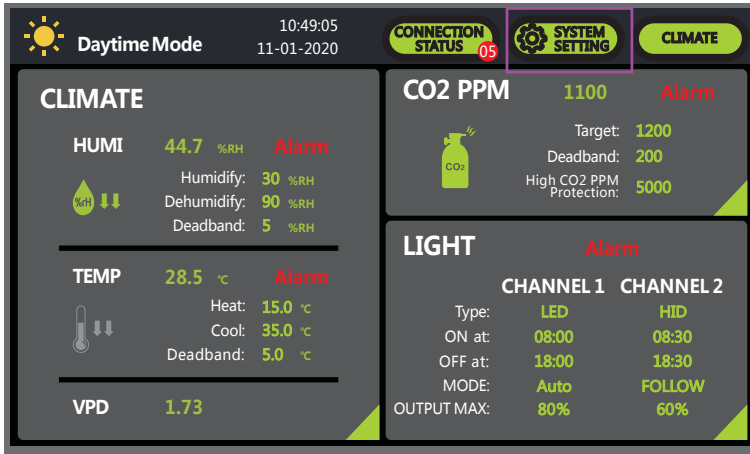


The image shows the Pro-Leaf registration interface. At the top is the Pro-Leaf logo. Below it are five input fields: 'Username' with placeholder 'Enter username', 'Email' with placeholder 'name@example.com', 'Password' with placeholder 'Please enter 6 to 24 characters' and an eye icon, 'Confirm password' with placeholder 'Please enter 6 to 24 characters' and an eye icon, and 'City' with placeholder 'Please select a city'. Below these fields is a 'Code' field with placeholder 'Email Code' and a blue 'Send Code' button. At the bottom is a large blue 'Register' button.

## 1.2 Binding a New Device

You need to restart the Hydro-Pro after plugged into the internet cable to connect to the Internet.

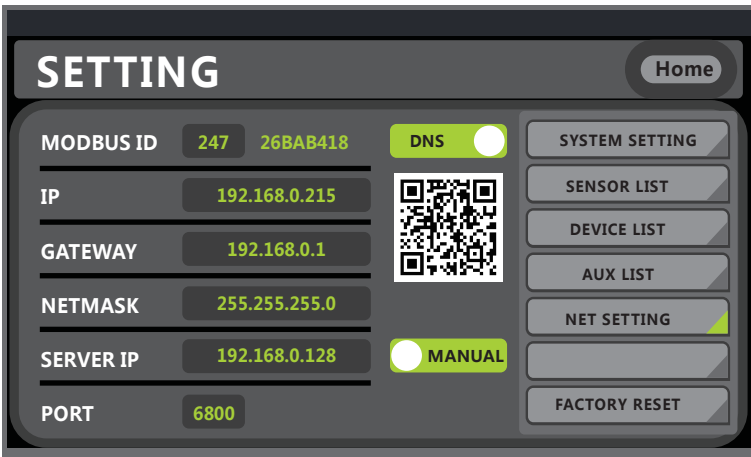
Step 1: Tap SYSTEM SETTING:



Step 2: Tap NET SETTING:



Step 3: IP shows the LAN IP means that the network is worked. The overseas SERVER IP shows Amazon Cloud , and the domestic shows SERVER IP Alibaba Cloud.

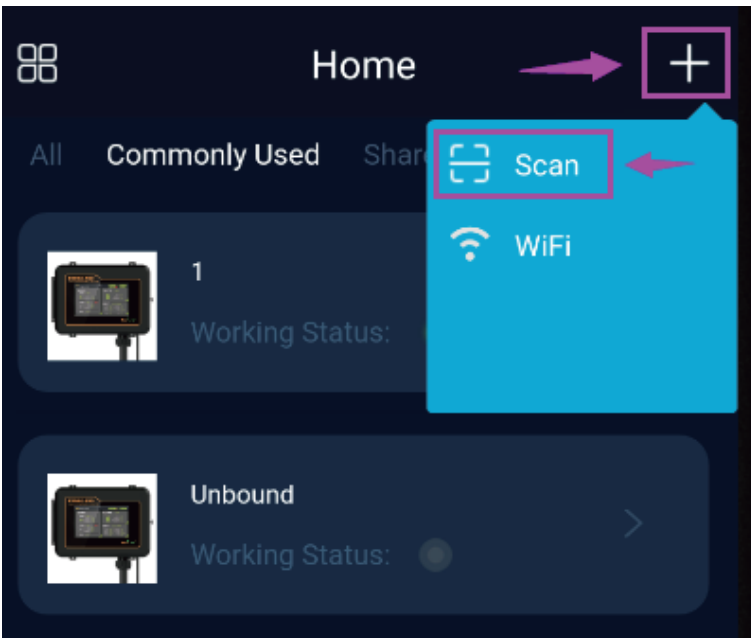


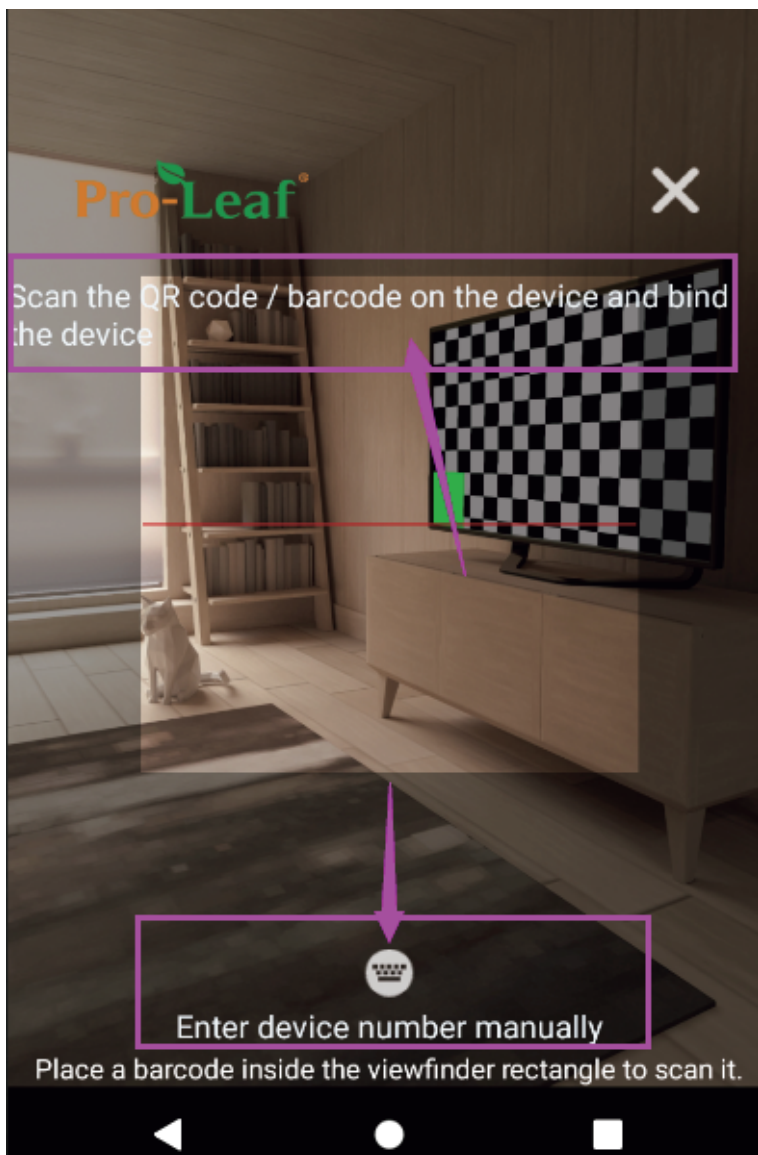
Step 4: Open the mobile APP and click on the upper right corner "+" enter the Scan page and scan the QR code of the device on the NET SETTING page to bind the device.

**Note:** If your device does not automatically connect to APP due to certain limitations of router, please follow below steps to resolve this issue.

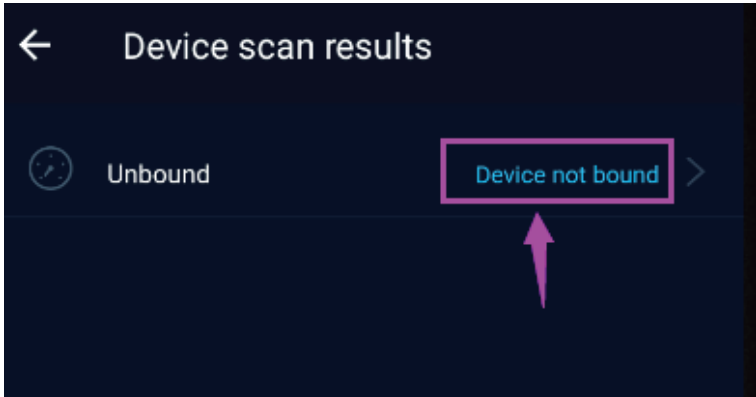
Step 1: Switch to manual mode then enter IP: 13.57.62.222

Step 2: Reboot the device.





Step 5: Tap the “Device not bound” to bind the device.




Step 6: Enter the device name, select the area, and tap confirm to complete the process.

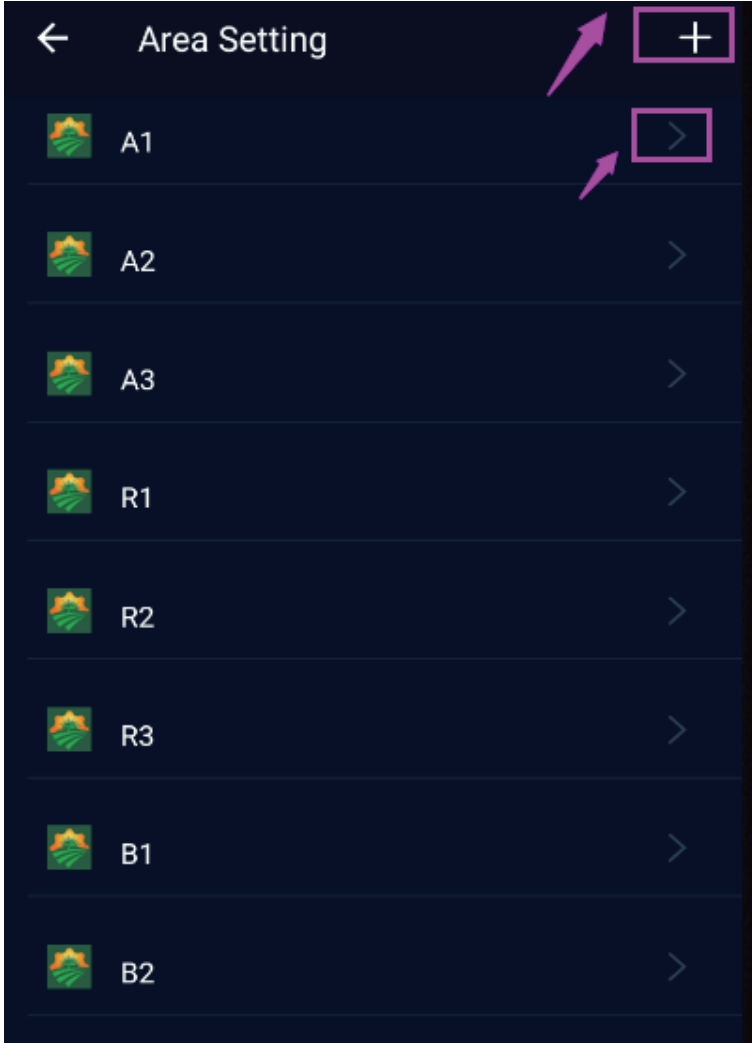





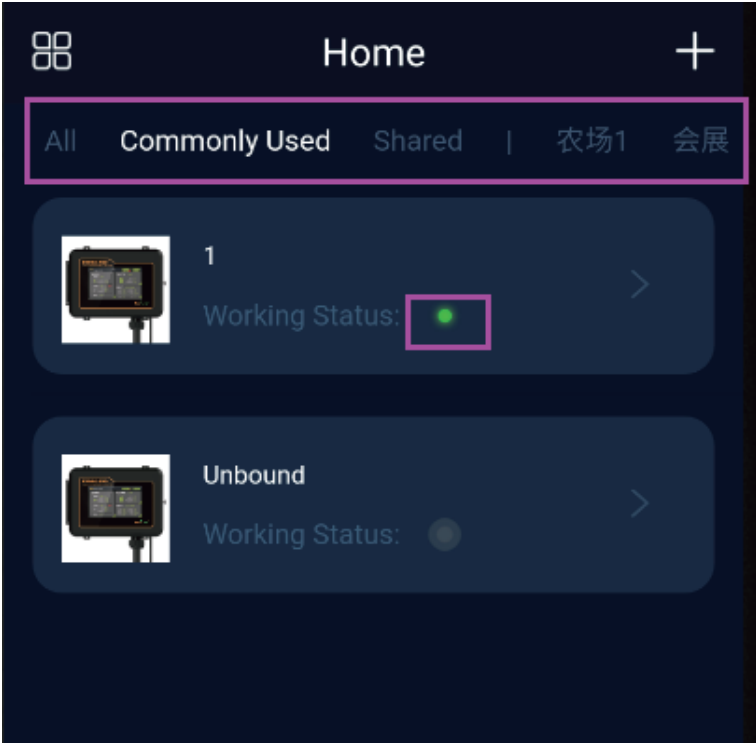
# 1.3 Mobile Applications Instructions

## 1.3.1 Home Page

Tap the  icon on the upper left corner to manage multiple grow areas. Grower can add new devices to a specified area, an area can have multiple devices, but a device can only in one area.



Grower can tap the icon of a area to query the device status in this area. This icon  indicates that the device is online.

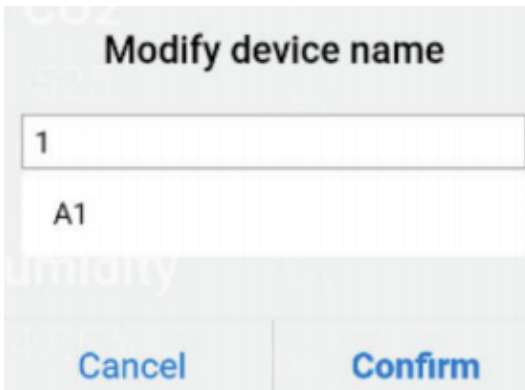


## 1.3.2 Device Details

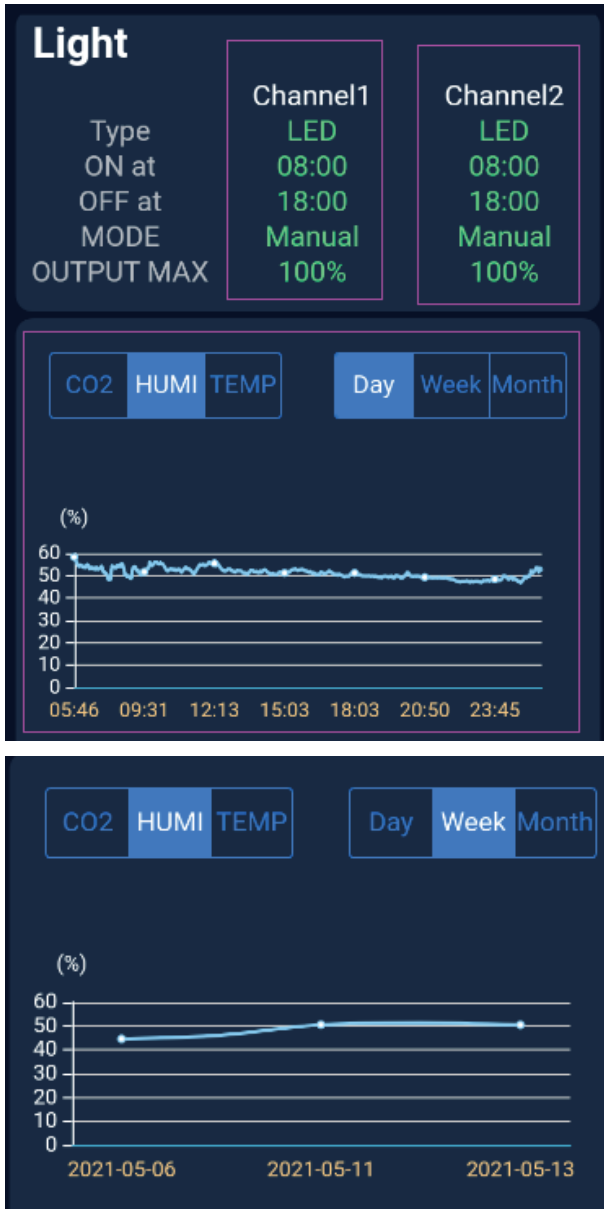


Tap CO2, humidity, temperature, light to enter the setting page.

Tap the device name grower can rename the device and corresponding area:



CO2, humidity and temperature statistics can be displayed on a daily/weekly/monthly basis.



### 1.3.3 CO2 Setting

The WORKING modes of CO2 are Monitoring mode /PPM UP/Fuzzy Logic. The working mode switch takes effect immediately without save.

When the working mode is PPM UP or Fuzzy Logic:

(1) When CO2 & TEMP lock is On, the CO2 device will be shut down during cooling process.

(2) When CO2 & HUMID Lock is On, the CO2 device will be shut down during dehumidifying process.

CO2			
Working mode		PPM UP	
Target	-	1200	+ ppm
Deadband	-	300	+ ppm
High Alarm	-	2000	+ ppm

CO2 & Temp Lock  ON

CO2 & HUMID Lock  OFF

Save settings

When CO2 & TEMP lock is On, the CO2 device will be shut down during cooling process.

The screenshot shows the 'Device Details' screen of an application. At the top, there is a back arrow on the left and a gear icon on the right. Below the title, there is a circular device image and a slider set to '1'. The main content is organized into three rows, each representing a different environmental parameter. Each row has a left column for the current value and a right column for minimum and maximum values. The CO2 row shows a current value of 483 and a 'CO2 & Temp Lock' status box with a pink arrow pointing to the current value. The Humidity row shows a current value of 52.6% and a 'Humidification' status. The Temperature row shows a current value of 28.8°C and a 'Cooling' status box with a pink arrow pointing to the current value.

Parameter	Current Value	Max	Min	Status
CO2	483	2146	377	CO2 & Temp Lock
Humidity	52.6%	76.9%	29.8%	Humidification
Temperature	28.8°C	32.4°C	23.1°C	Cooling

When CO2 & HUMI Lock is On, the CO2 device will be shut down during dehumidifying process.

The screenshot shows a mobile application interface titled "Device Details". At the top left is a back arrow, and at the top right is a gear icon for settings. Below the title is a circular profile picture of a device and a blue pill-shaped button with the number "1". The main content is organized into three rows, each representing a different environmental metric. Each row has a left column for the current value and a right column for maximum and minimum values. The CO2 row shows a current value of 478, with a "CO2 & Humi Lock" status box. The Humidity row shows a current value of 52.0% and a "Dehumidification" status box. The Temperature row shows a current value of 28.8°C and a "Cooling" status box.

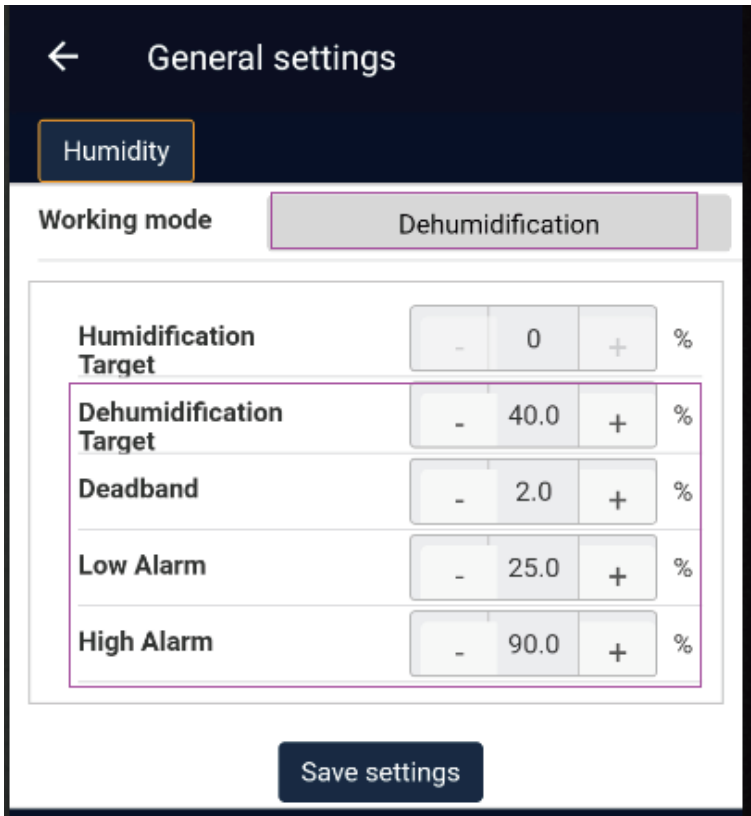
Metric	Current Value	Max	Min	Status
CO2	478	2146	377	CO2 & Humi Lock
Humidity	52.0%	76.9%	29.8%	Dehumidification
Temperature	28.8°C	32.4°C	23.1°C	Cooling

### 1.3.4 Humidity Settings

Humidity working mode: monitoring mode/humidification/dehumidification/automatic. The working mode switch takes effect immediately without save.

(1) When the working mode is humidification, only the humidification target value can be modified. When the ambient humidity is lower than the preset value, the humidifier starts.

(2) When the working mode is dehumidification, only the dehumidification target value can be modified. When the ambient humidity is higher than the preset dehumidification target, the dehumidifier starts.



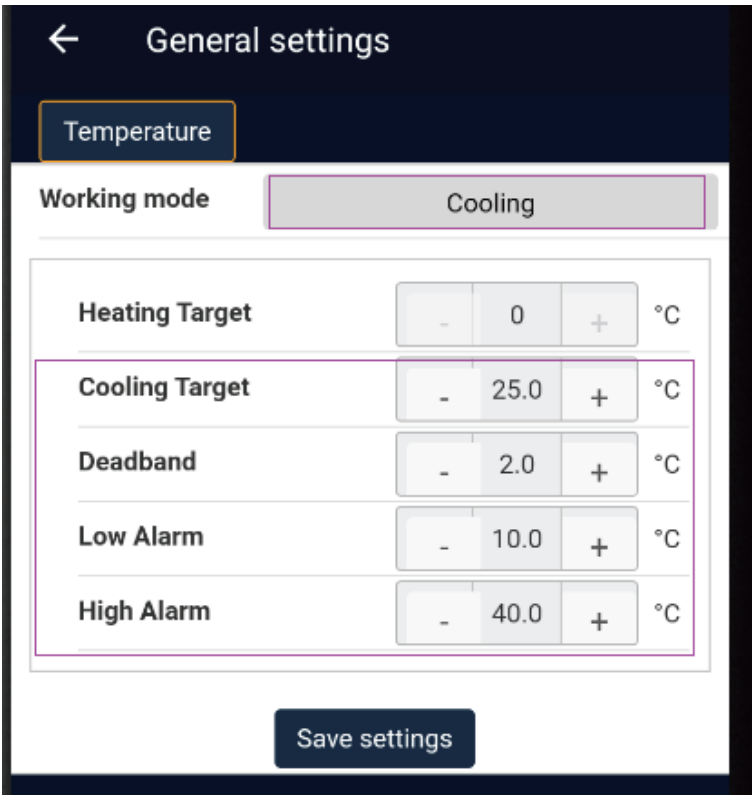


### 1.3.5 Temperature setting

Temperature working mode: monitoring mode/heating/cooling/automatic. The working mode switch takes effect immediately without clicking save.

(1) When the working mode is heating, only the heating target value can be modified. When the temperature is lower than the heating target value, start the heating device.

(2) When the working mode is cooling, only the cooling target value can be modified. When the temperature is higher than the cooling target value, start the cooling device.

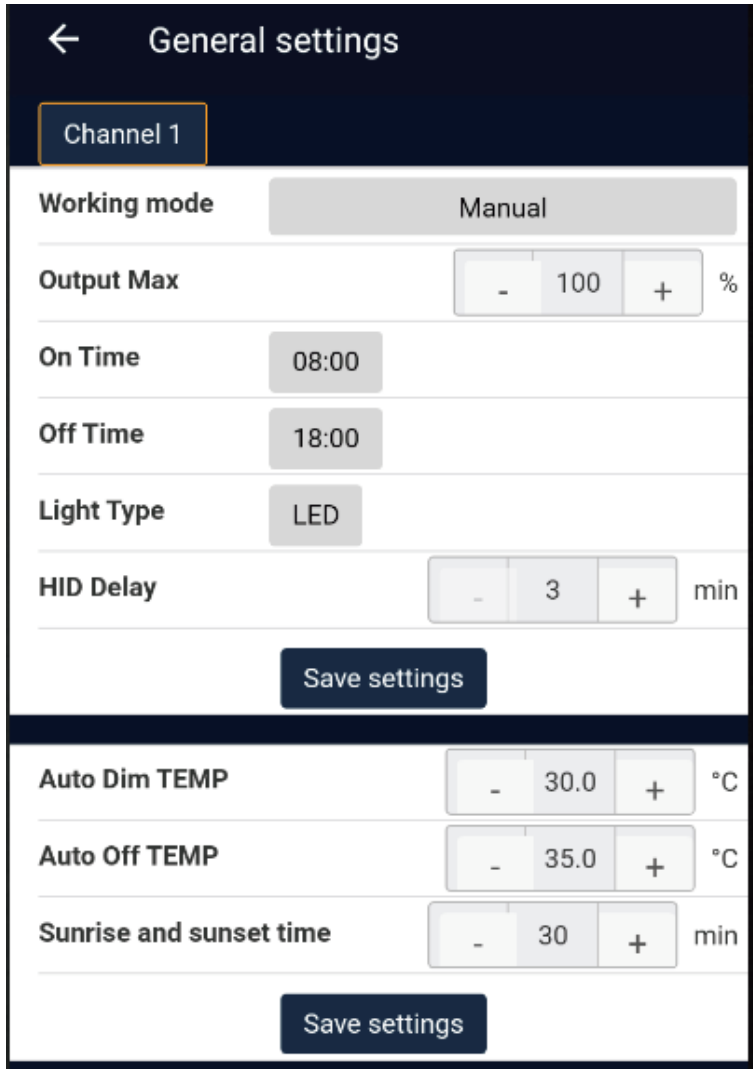


### 1.3.6 Lighting Control

(1) Channel 1 working mode includes Manual mode and Automatic mode.

(2) Channel 2 working mode includes Manual mode, Following mode and Independent mode.

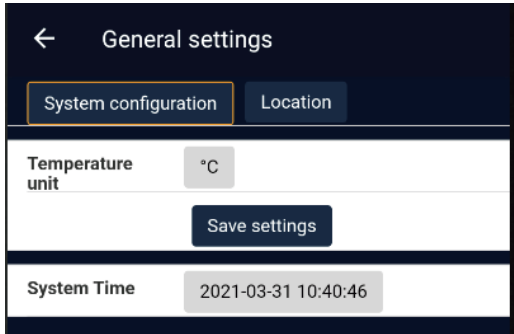
(3) Temperature control setting is effective for Channel 1 and Channel 2, and the following settings Automatic dimming temperature , Automatic off temperature, sunrise and sunset time are set for both Channels.



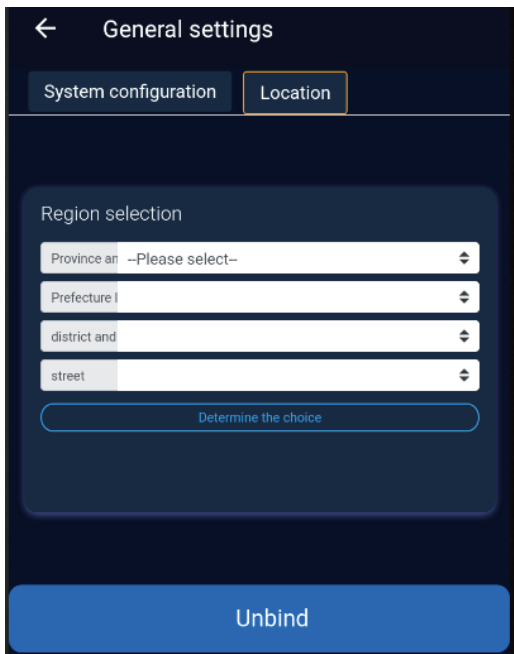
### 1.3.7 General Settings

Tap  on the upper right corner of device to enter General Settings page.

(1) System Configuration: Grower can set the Temperature unit and System time.



(2) Location setting You can set the geographical location of the device and unbind the device.



## 1.4 Website

To access the PC web version, enter the address:

**[http://guardian.pro-leaf.com/pc/html/home/device\\_pc\\_index.html](http://guardian.pro-leaf.com/pc/html/home/device_pc_index.html)** in the PC browser. Please refer to the user manual of the mobile app for operating instructions.