HYDRO-PRO

Environmental Control System

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	10:49:05		IRRIGATION STATUS	CONNECTION STATUS	SYSTEM SETTING

Daytime Mode 11-01-2020

CLIMATE

HUMI 44.7 %RH

Humidify: 30 %RH
Dehumidify: 90 %RH
Deadband: 5 %RH

TEMP 28.5 ℃

Heat: 15.0 ℃
Cool: 35.0 ℃
Deadband: 5.0 ℃

VPD 1.73

CO2 PPM 1100

Target: 1200
Deadband: 200
High CO2 PPM Protection: 5000

LIGHT

	CHANNEL 1	CHANNEL 2
Type:	LED	HID
ON at:	08:00	08:30
OFF at:	18:00	18:30
MODE:	Auto	FOLLOW
OUTPUT MAX:	80%	60%

Pro-Leaf®

C o n t e n t s

1.1 Registration

1.1.1 Application Download

Scan and download overseas application :
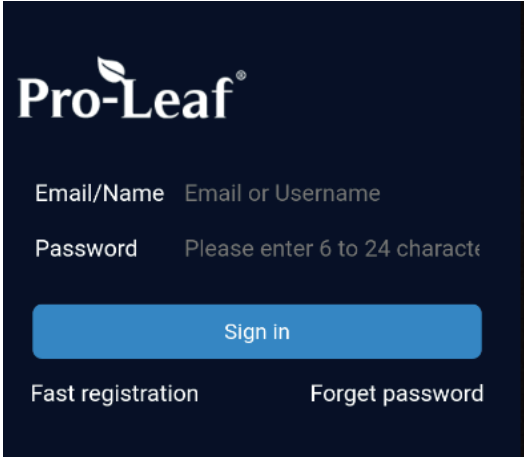
iPhone

Android

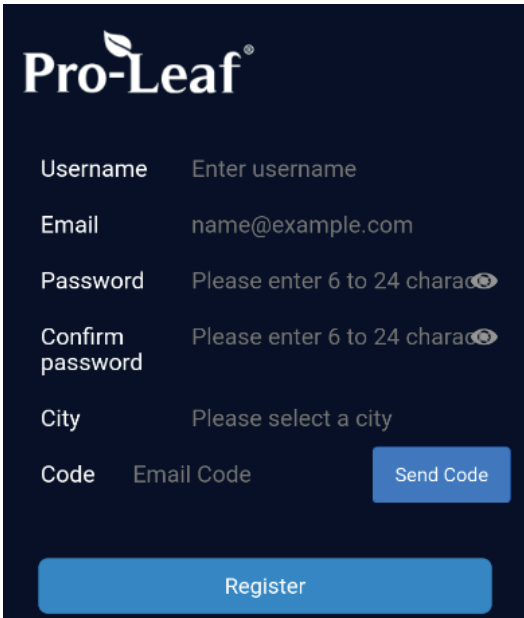## 1.1.2 Registering an Account

Tap [Quick Registration] on the login interface

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.
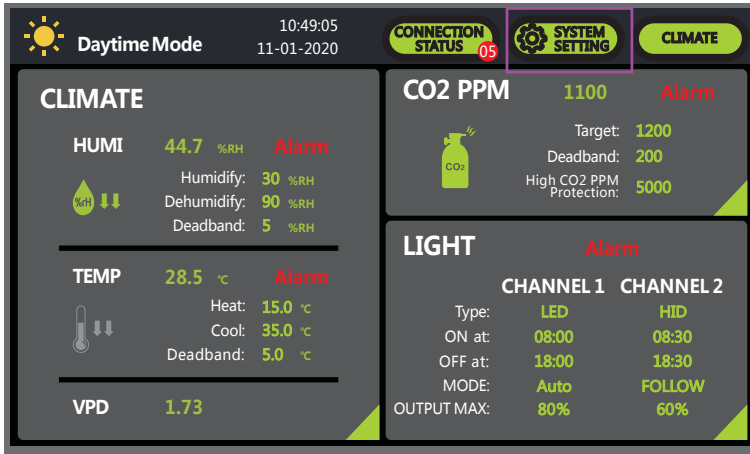
1.2 Binding a New Device

You need to restart the Hydro-Pro after plugged into the internet cable to connect to the Internet.
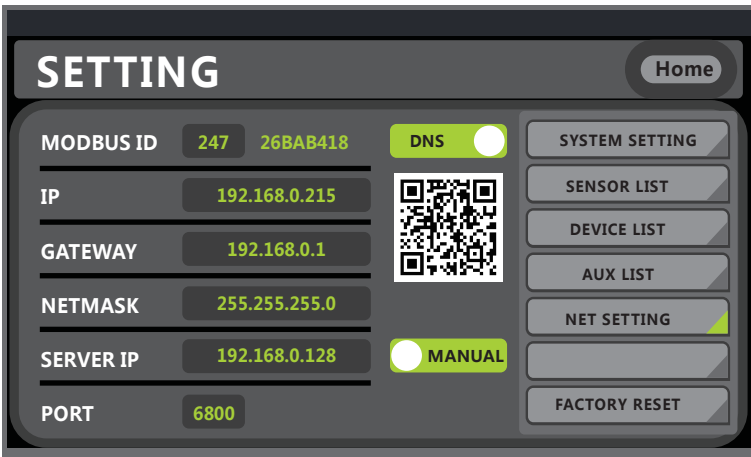
Step 1: Tap SYSTEM SETTING:

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.

SETTING

MODBUS ID	247 26BAB418	**DNS** ⬤
IP	192.168.0.215	
GATEWAY	192.168.0.1	
NETMASK	255.255.255.0	
SERVER IP	192.168.0.128	⬤ **MANUAL**
PORT	6800	

Home

SYSTEM SETTING
SENSOR LIST
DEVICE LIST
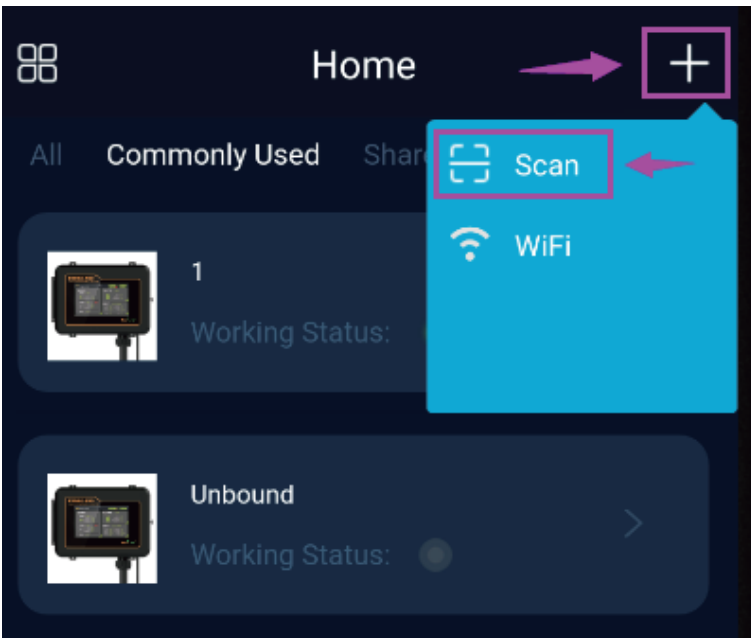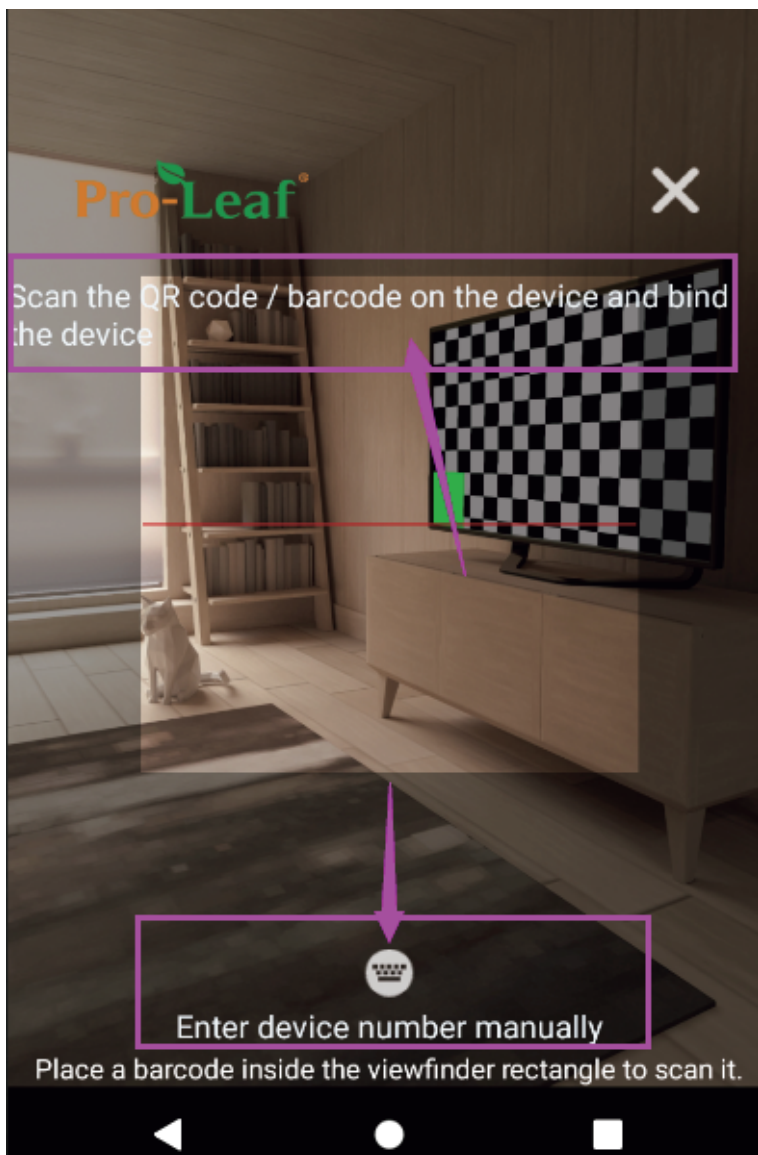AUX LIST
NET SETTING
FACTORY RESET

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 automaticly connect to APP due to certain limitations of router, please follow below steps to resolve this issue.
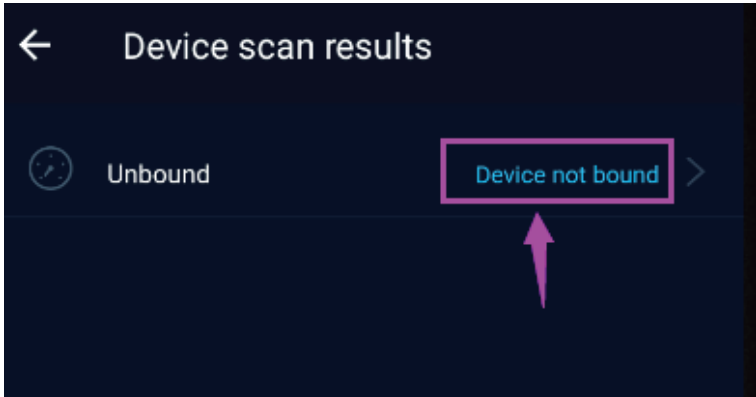
Step 1: Switch to manual mode then enter IP: 13.57.62.222

Step 2: Reboot the device.

Scan the QR code / barcode on the device and bind the device

Enter device number manually

Place a barcode inside the viewfinder rectangle to scan it.

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.
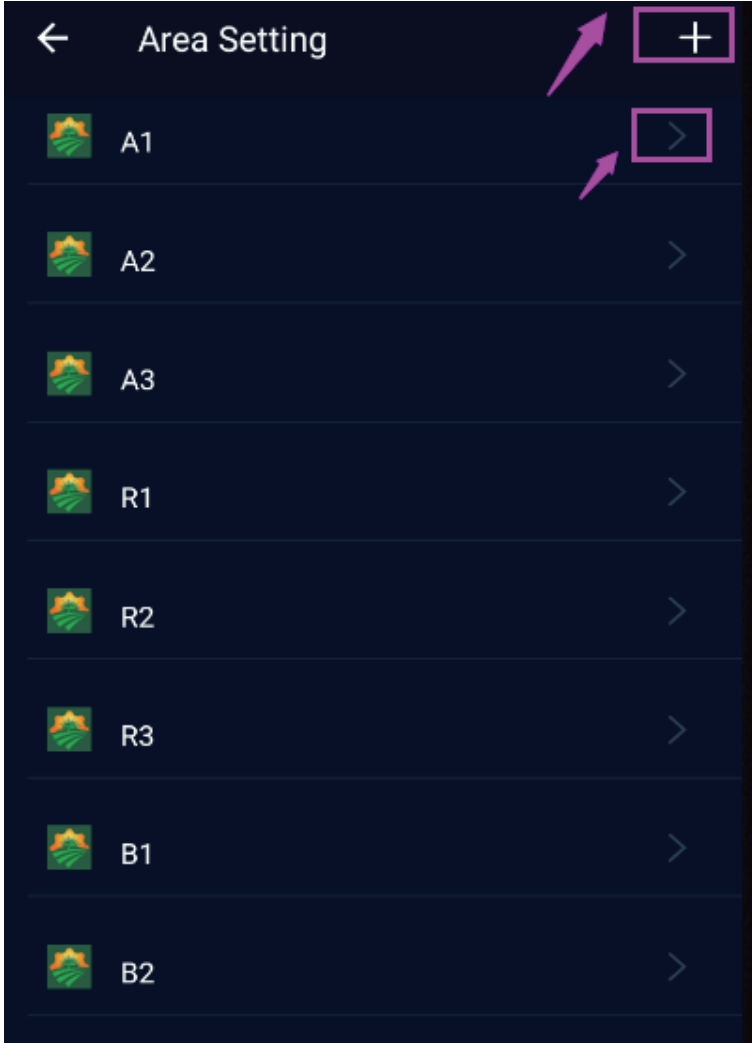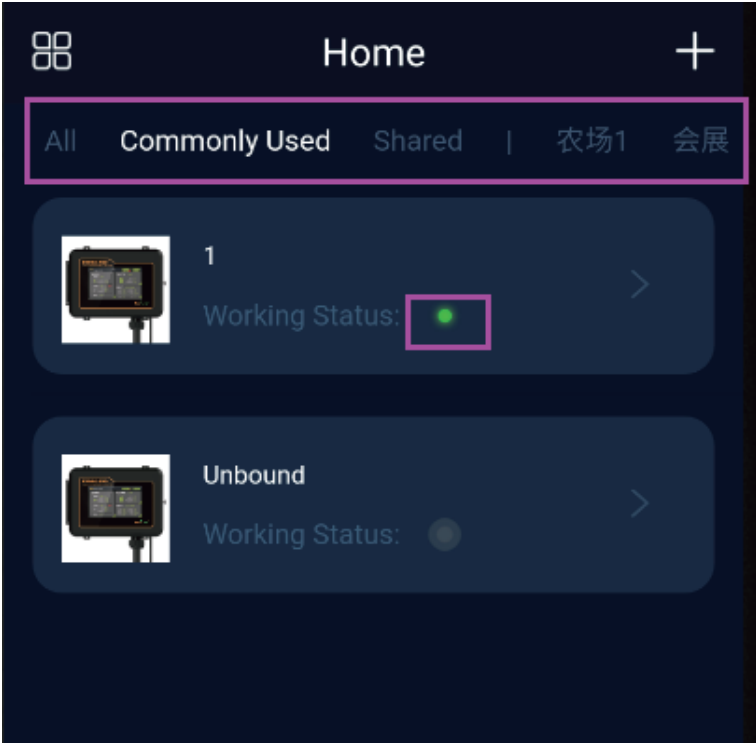
1.3 Mobile Applications Instructions

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.
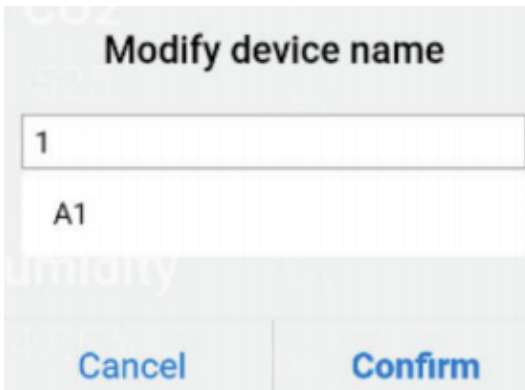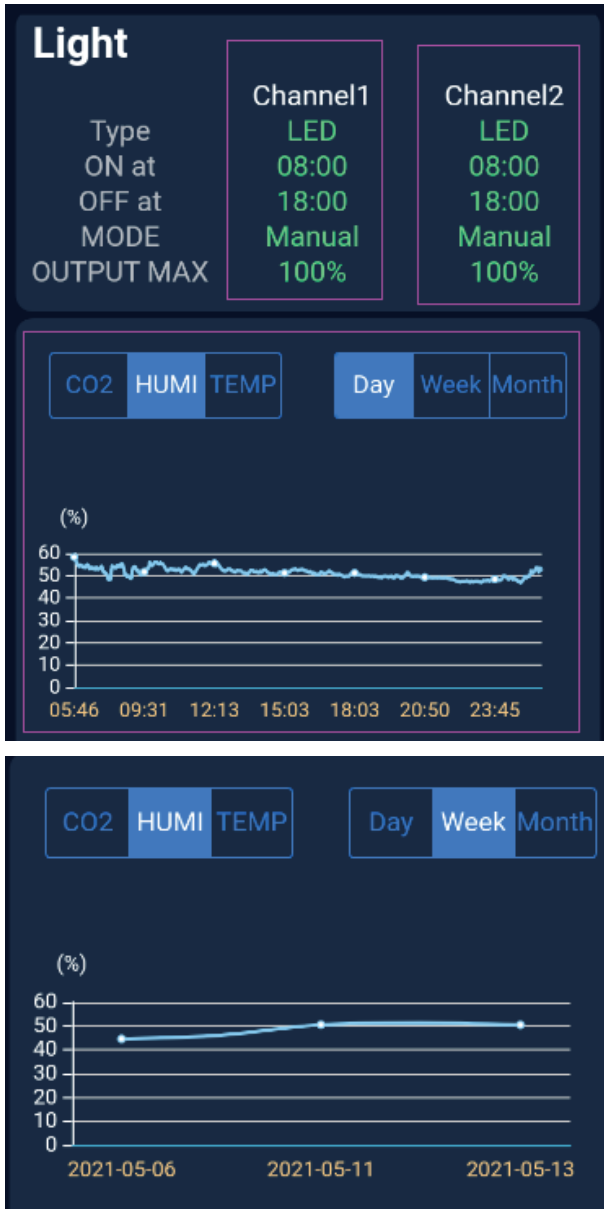
1.3.2 Device Details

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

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

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

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.
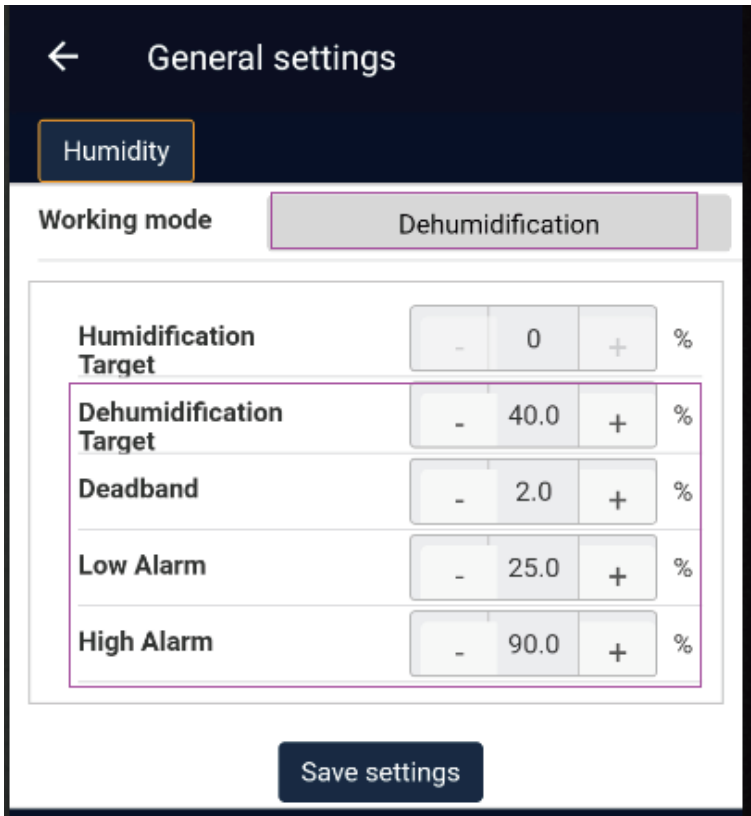
1.3.5 Temperature setting

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.
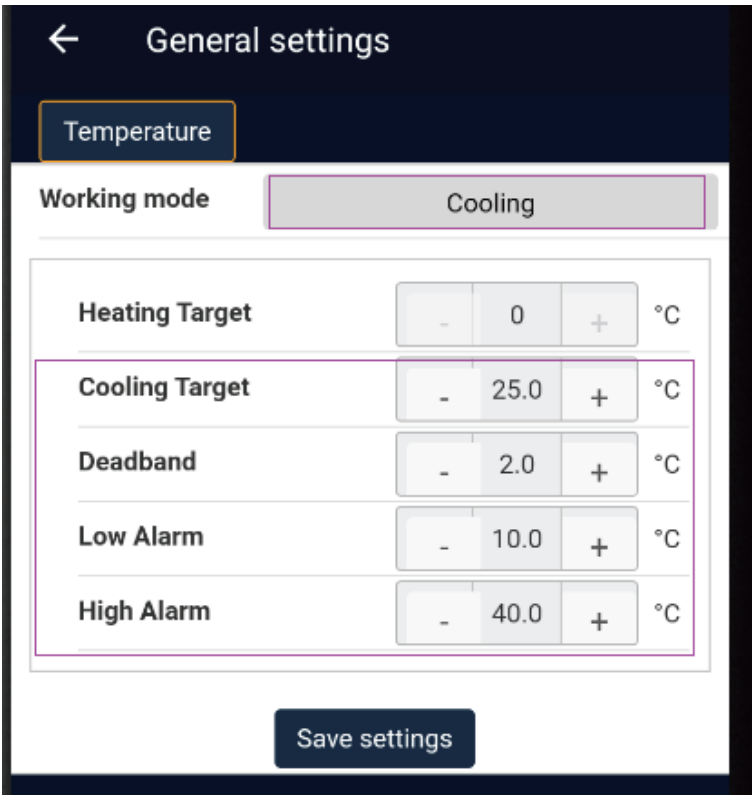
1.3.6 Lighting Control

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

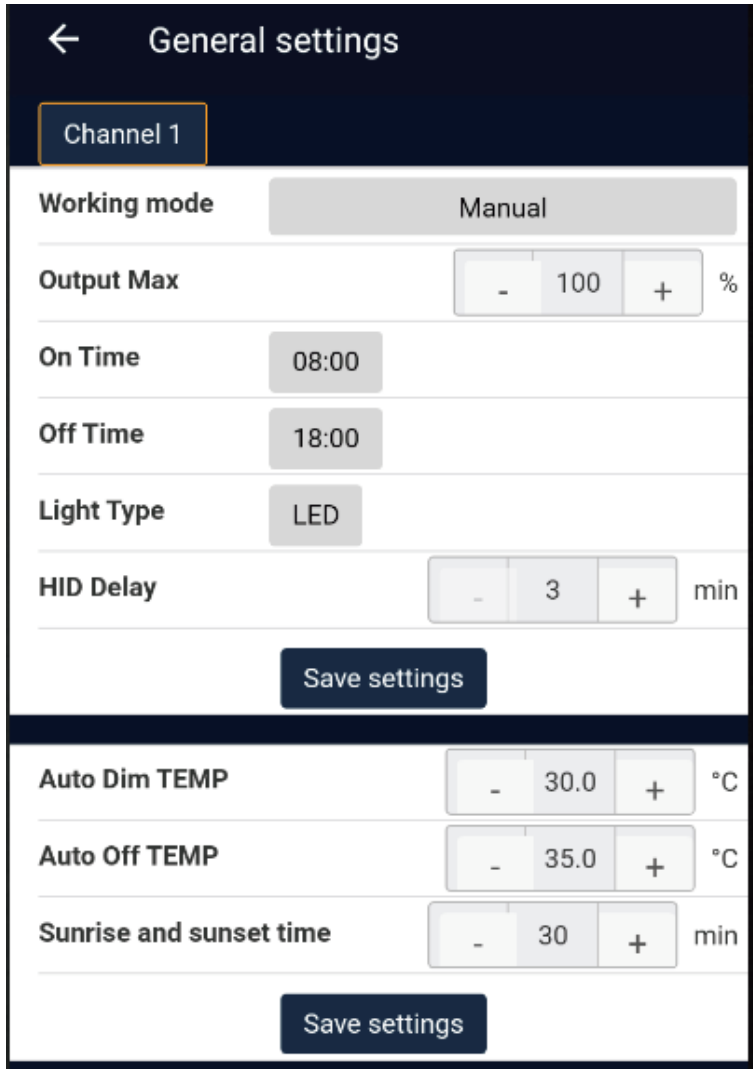(2) Channel 2 working mode includes Manual mode, Following mode and Independent mode.

(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.

| ←	General settings	
Channel 1		
Working mode	Manual	
Output Max	− 100 +	%
On Time	08:00	
Off Time	18:00	
Light Type	LED	
HID Delay	− 3 +	min
	Save settings	
Auto Dim TEMP	− 30.0 +	°C
Auto Off TEMP	− 35.0 +	°C
Sunrise and sunset time	− 30 +	min
	Save settings	

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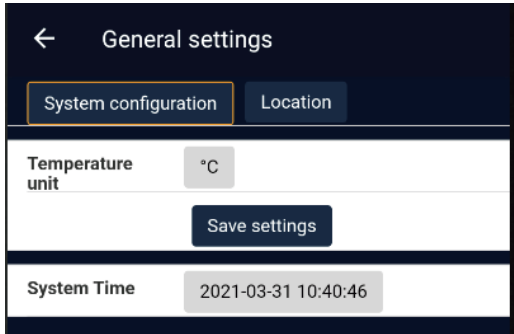
(2) Location setting You can set the geographical location of the device and unbind the device.
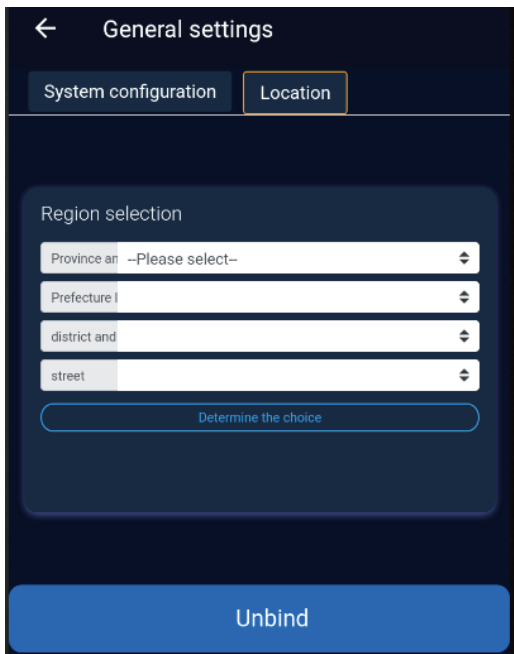
1.4 Website

To access the PC web version, enter the address:

http://guardian.pro-leaf.com/pc/html/home/device_pc_index.html in the PC browser.Please refer to the user manual of the mobile app for operating instructions.