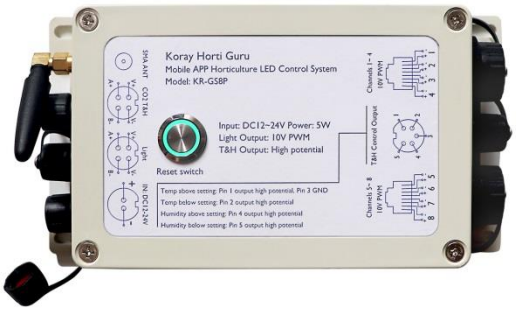
APP Horticulture LED control system, plant light temperature and humidity controller

MODEL: KR-GS8P series www.koraylight.com www.xinelam.com

Description: KR-GS8P mobile APP Horticulture LED control system, plant light temperature and humidity controller, Up to 8 channels of spectral light adjustment, self-editing the light time and light intensity of the plant growth stage, up to one year of timing control, to meet the light requirements of different plants and different growth periods, by adjusting different spectra, apply plants Light requirements at different stages such as germination, group cultivation, growth, flowering, fruiting and harvesting; suitable for commercial planting of medicinal plants and professional experimental planting.

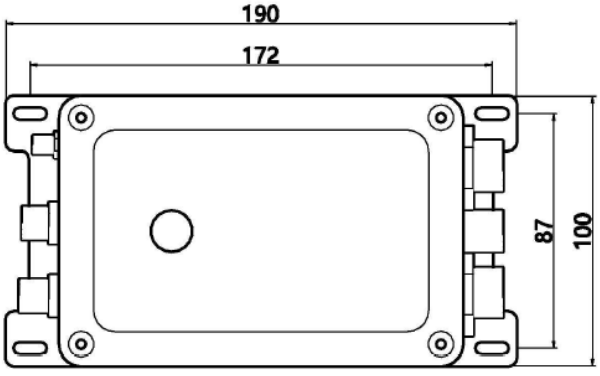


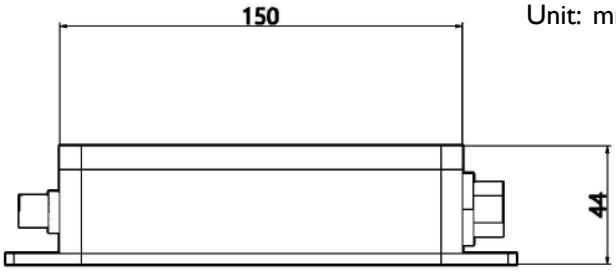
1. Mobile APP plant grow light control system, automatic adjustment of spectrum and light
2. Illumination, temperature and humidity display control in real time (requires additional sensors and control equipment)
3. Built-in optimal medicinal plant growth program, and can set the light program according to the needs, can edit plant growth light recipes, light time (up to 1 year), spectrum, light intensity at different growth stages
4. Light adjustment output:10V PWM, Max 8 channels
5. Abnormal temperature and humidity, high potential output
6. Input voltage DC12-24V, power consumption 5W
7. CE RoHS FCC

ITEM	Comment
Model	KR-GS8P
Mobile User Interface	Horti-Guru
Lighting control output	10V PWM （Percentage display）RJ45 network cable socket
Abnormal temperature and humidity	High potential output
Photometric sensor input signal	RS485 Modbus ANSI/TIA/EIA-485
Temperature and humidity sensor signals	RS485 Modbus ANSI/TIA/EIA-485
Input voltage and power consumption	DC12-24V 5W
Operating temperature: -20 °C ~ 40°C , Lifespan: 50,000 hours (Note:Ta 25 °C)	

The above data is for reference only!

Dimension:





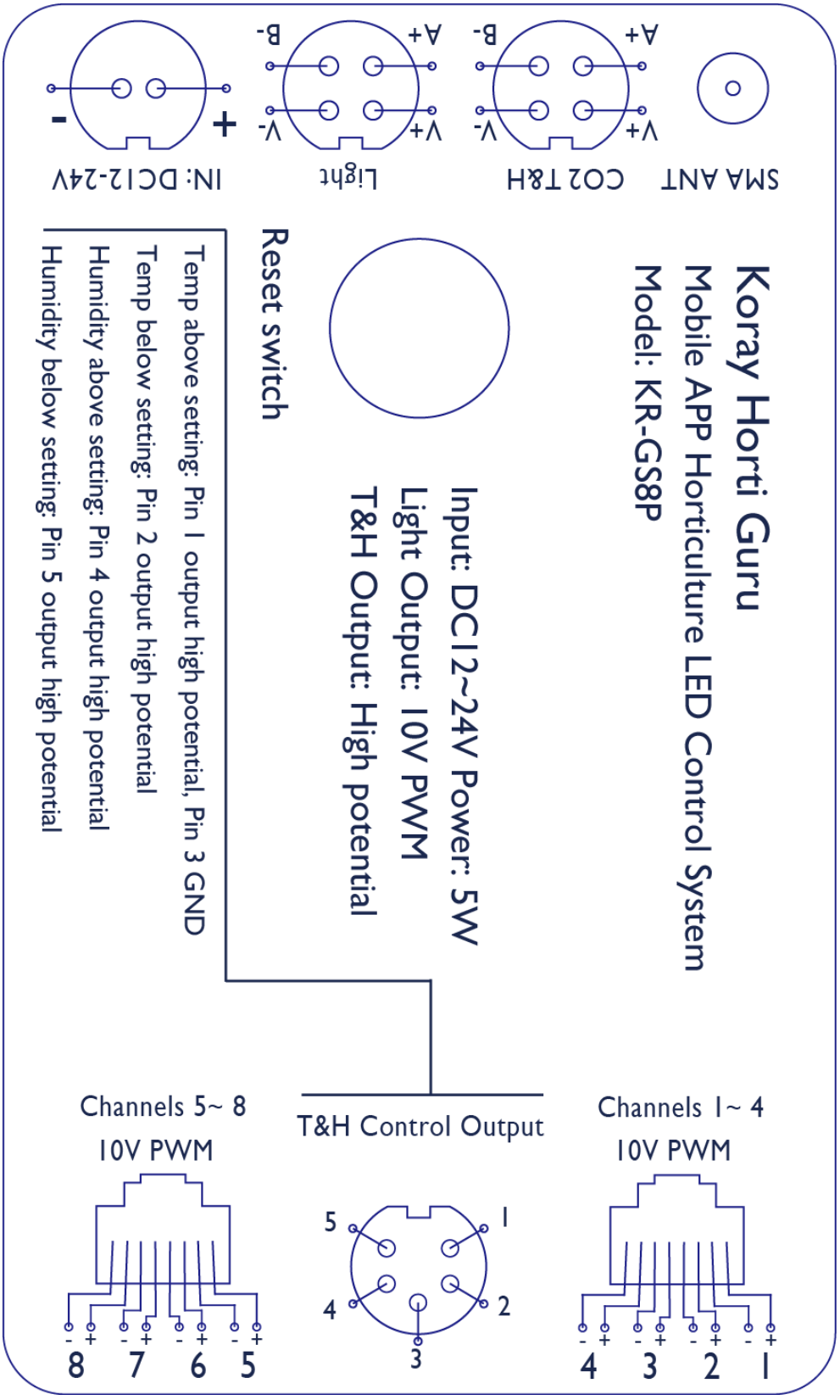
Unit: mm

Input
DC12-24V

T&H
RS485 Modbus

CO2

SMA Antenna



Dimming output
CH 5-8

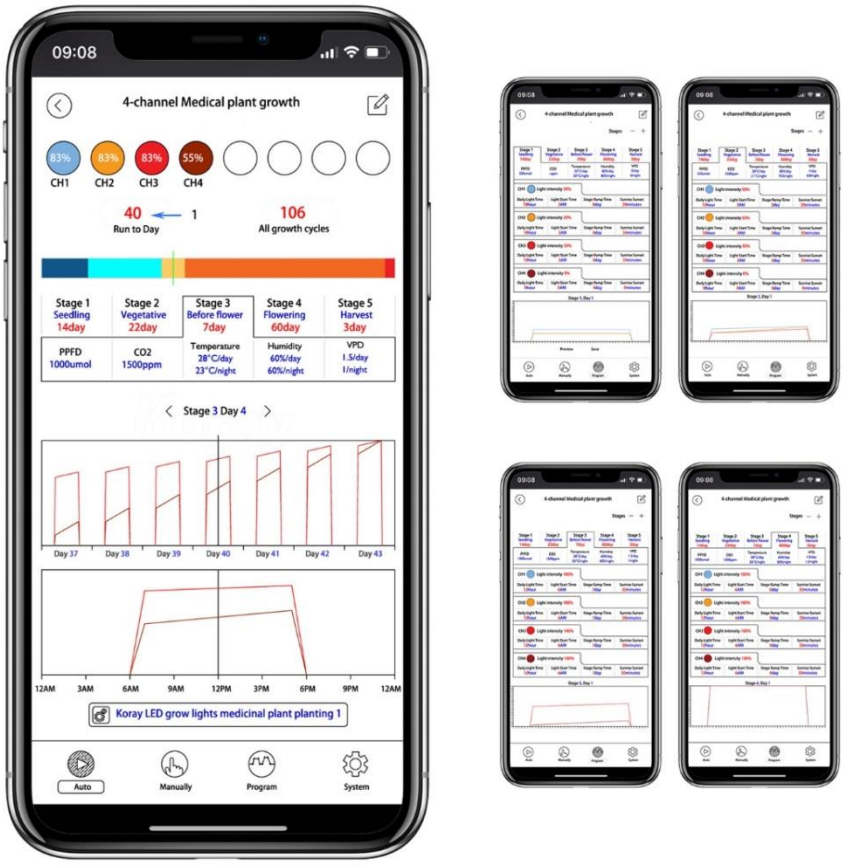
Temperature and humidity
control output

Dimming output
CH1-4

1. Install Horti Guru APP control system program
   Search Horti Guru in the App Store, or scan the QR code, download and install the APP, and register an APP account

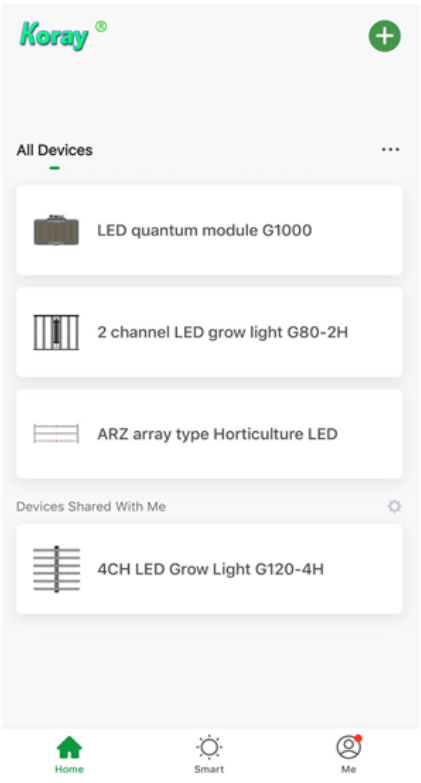
Recommended "Horti Guru" LED Grow Lights Control System

Horti Guru APP control system, has applied for patent, trademark and copyright, counterfeiting must be investigated



2. Add device

1.

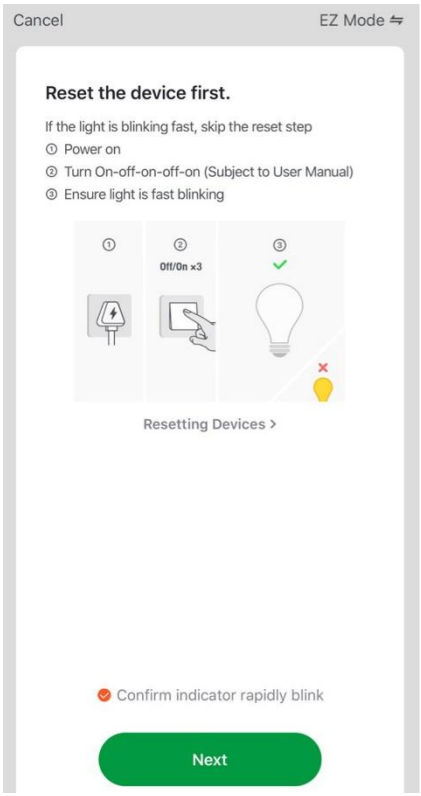


Click +Add device

2.

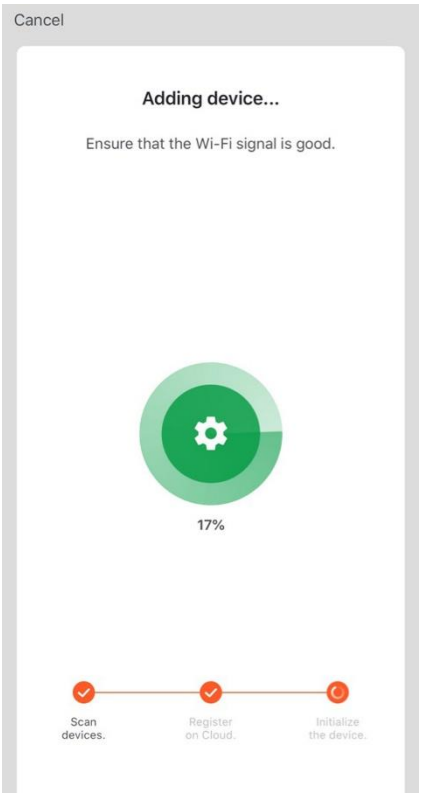
Add device manually
Click Horticulture LED

3.



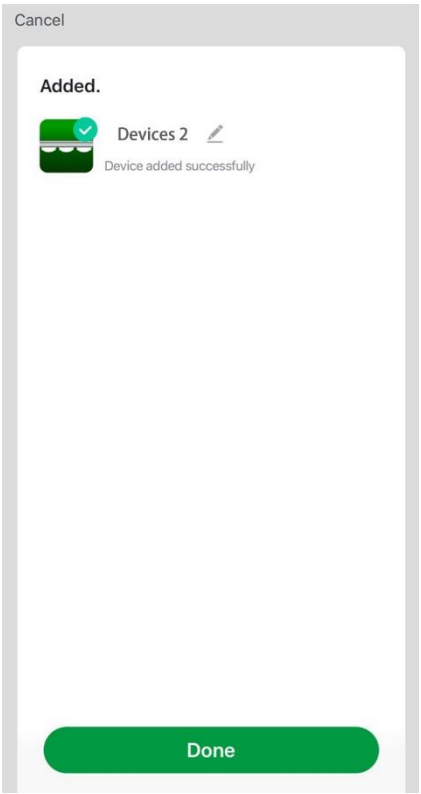
The red indicator light flashes quickly
Check to go to the next step

4.



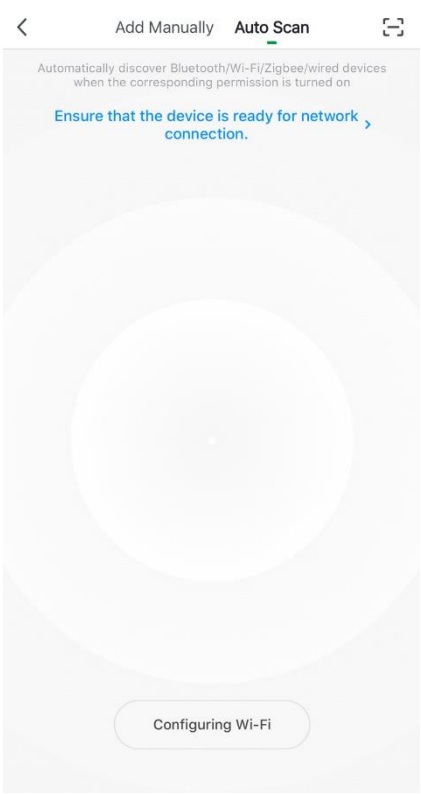
Search for registered devices

5.



Device added successfully
Device initial password 0000

6.

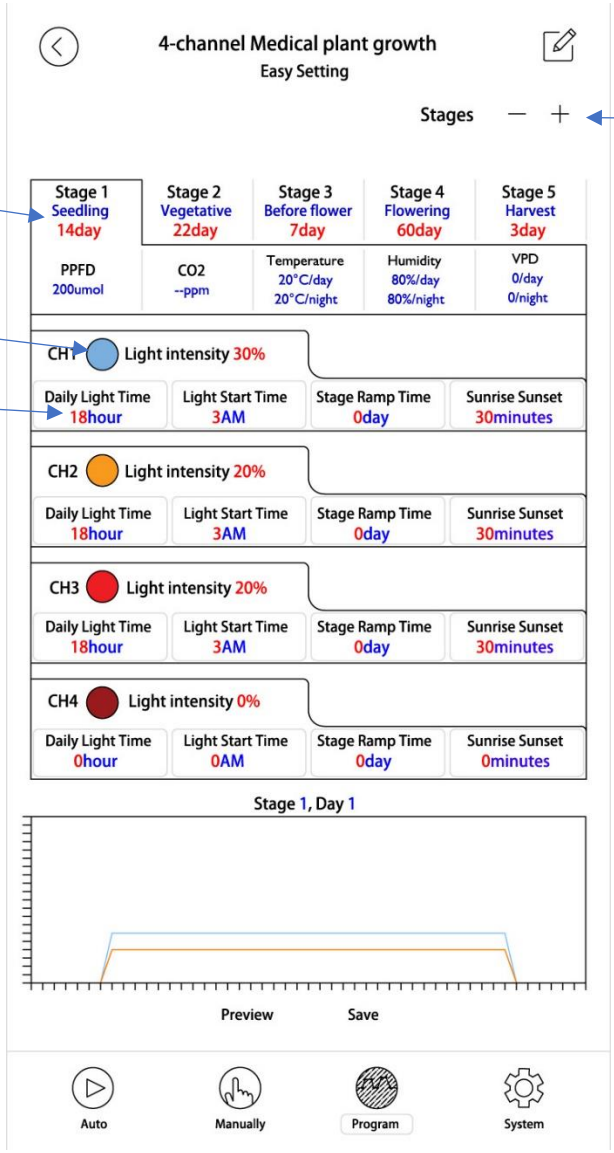


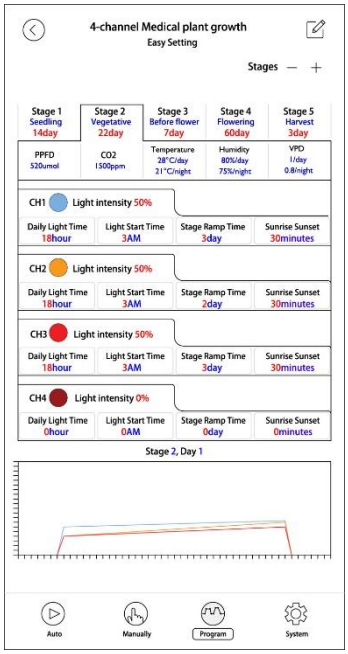
Click AutoScan
Add device automatically

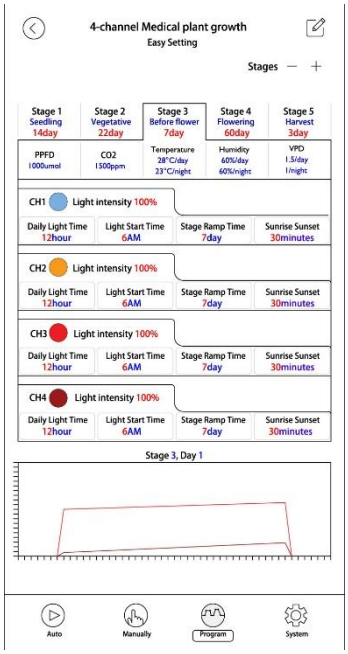
Note: 1. Restore factory settings-long press for 10 seconds, the indicator will change color; 2. Clear cache data-click the switch 10 times

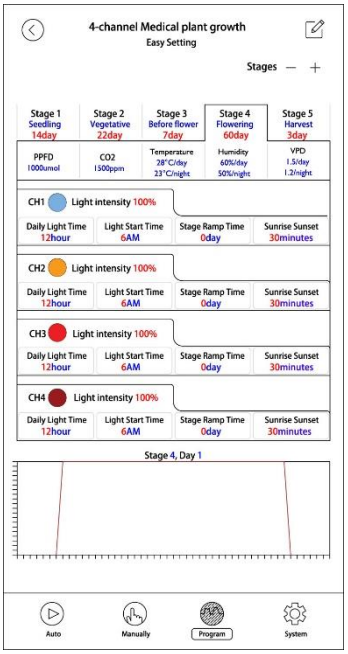
3. Programming settings (setting of light time, light intensity, spectrum, temperature and humidity, carbon dioxide

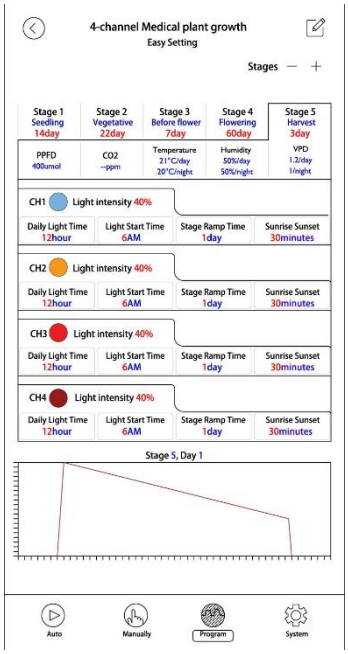
concentration), Built-in program 1: 4-channel Medical plant growth









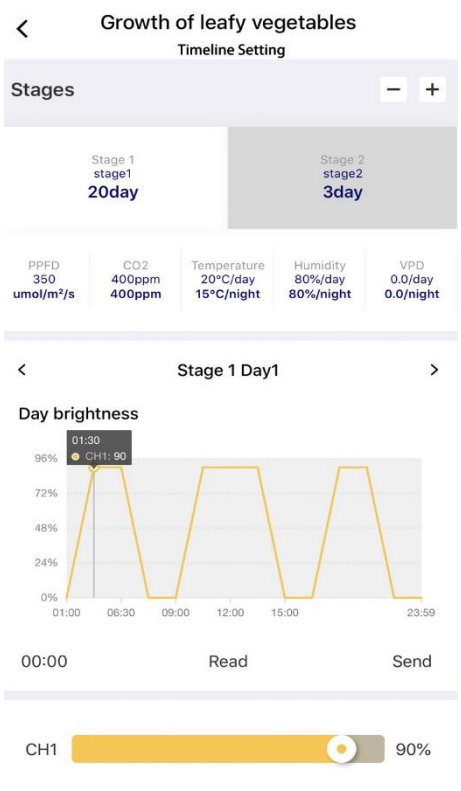


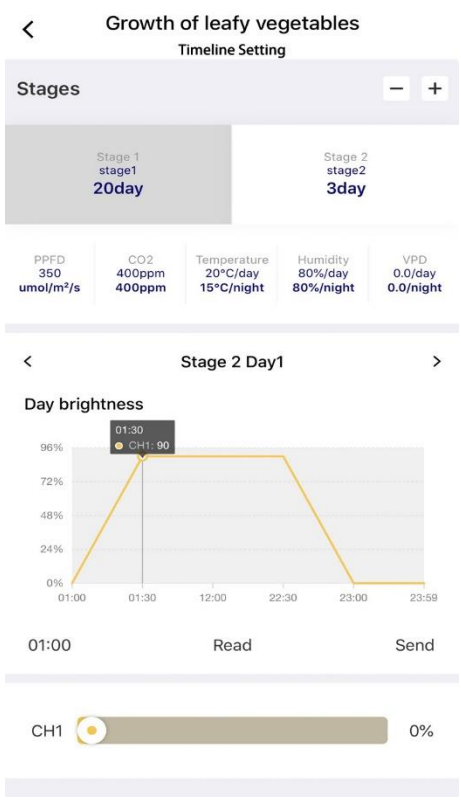
Program 1 is a full-cycle growth program for medicinal plants, including five stages: seedling, vegetative growth, flowering preparation, flowering, and harvesting. You can choose any day to start operation according to your needs.

4. Built-in program 2: 2 CH Medical plant growth

The built-in program 2 is a dual-channel medicinal plant growth light, which is divided into three stages: vegetative growth, flowering, and harvest. You can choose any day to start operation according to your needs; this program is also suitable for single-channel medicinal plant growth, Choose CH1.

Built-in program 3: Growth of leafy vegetables





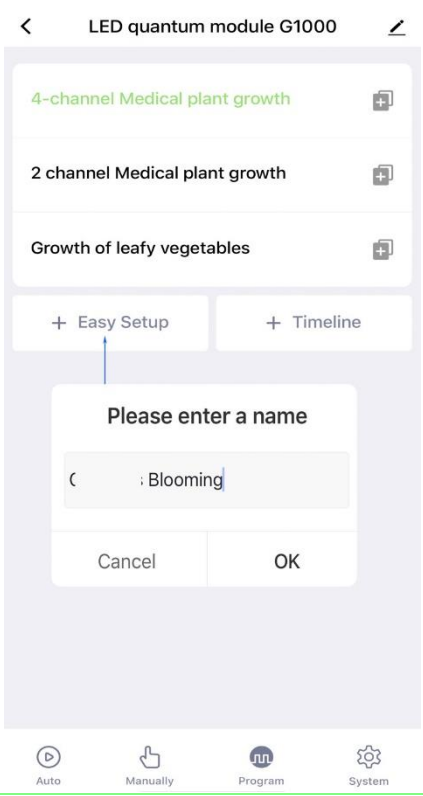
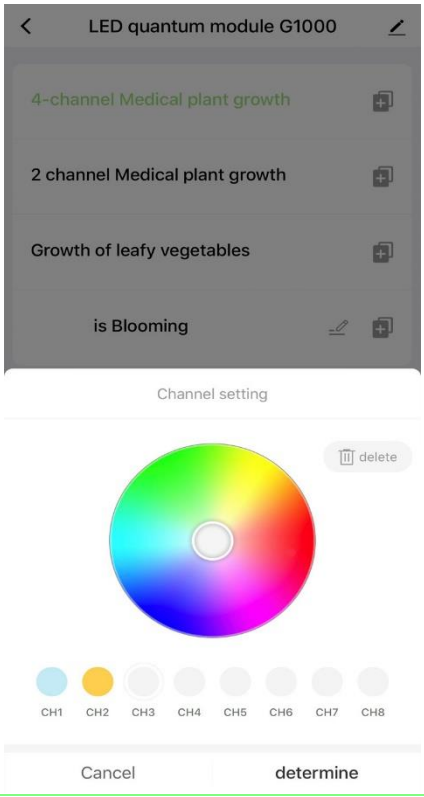
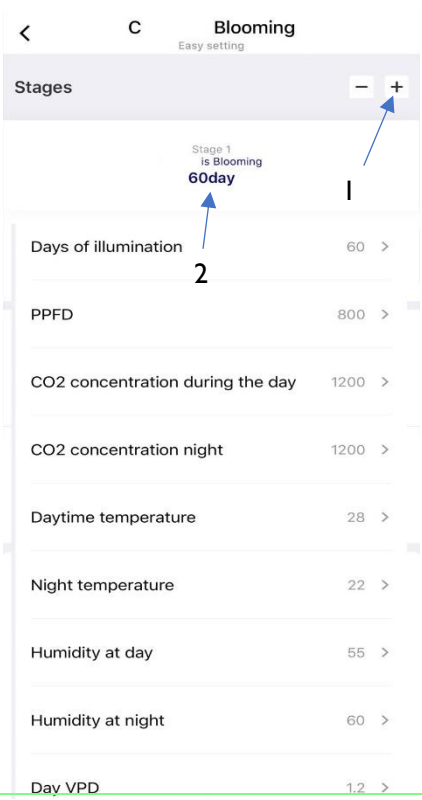
Stage 1, It lights up 3 segments for 6 hours every days; namely, off for 2 hours, Sunrise and sunset time is 30 minutes

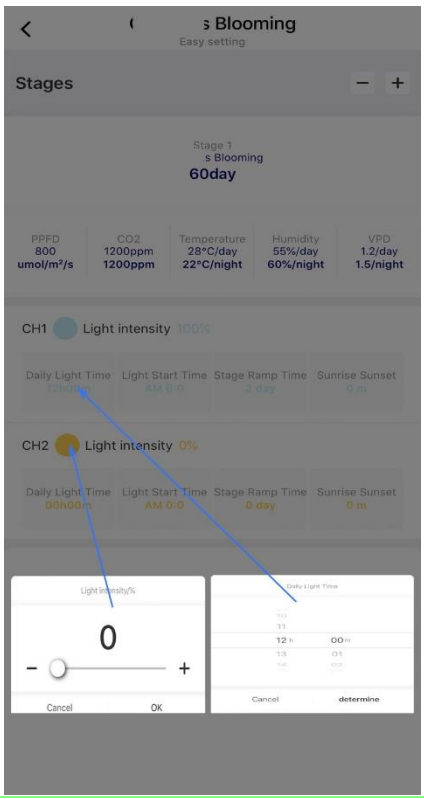
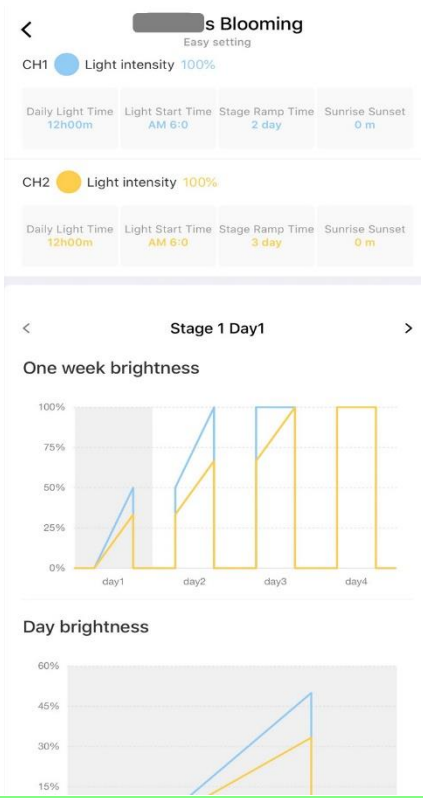
Stage 2, light up for 22 hours a day, that is, turn off for 2 hours, light up for 22 hours, and the sunrise and sunset time is 30 minutes

This program uses 1 day as 2 days to speed up plant growth

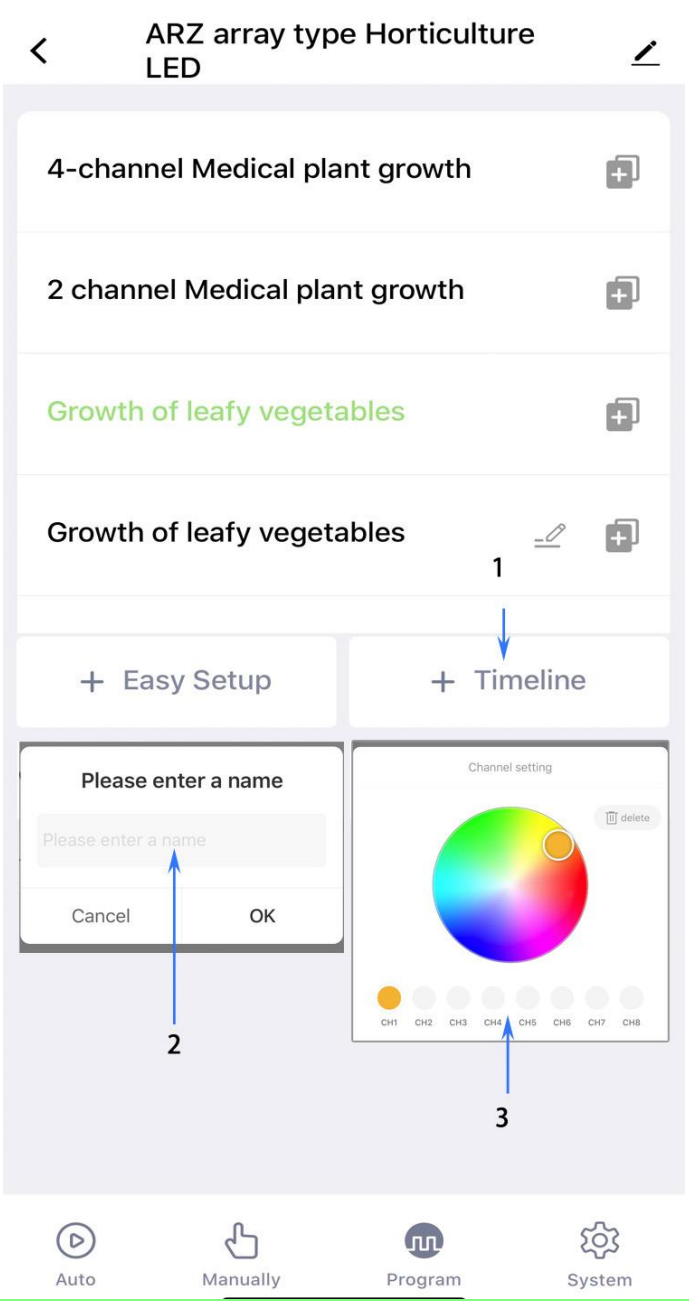
Built-in program 3 is a leafy vegetable growing program. It is edited by timeline. Every day, open 3 segments for 6 hours; namely, off for 2 hours, on for 6 hours, off for 2 hours, on for 6 hours, off for 2 hours, on for 6 hours, off 2 hour.

5. Program setting-easy setting

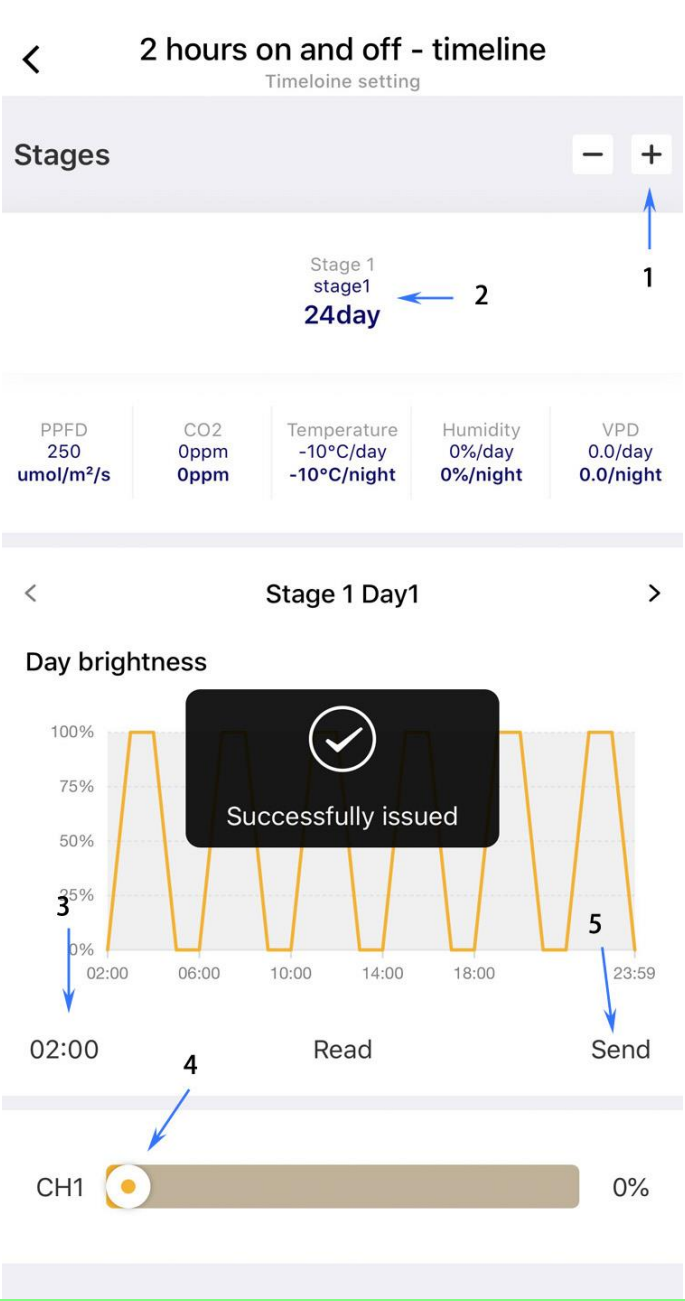
1	2	3
		
Click to enter easy settings Set the program name	Channel selection (color and number of channels)	Click + to increase the planting stage Click 2, set the number of days, PPFD, CO2, temperature and humidity

4	5	
		
Tap Settings, the highest brightness of this stage, daily lighting time, start time, stage transition period and sunrise and sunset time	Automatically generate timeline after setting	

6. Program settings-timeline settings

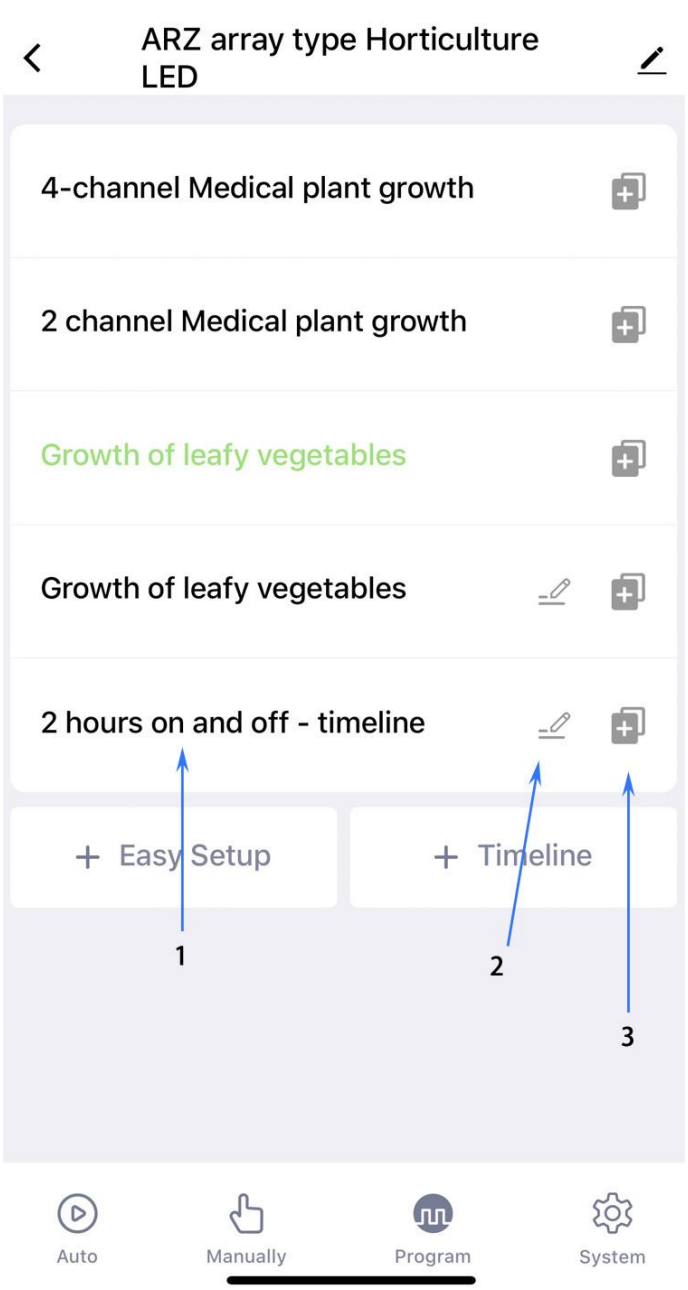


1. Click to add timeline program settings
2. Enter the program name
3. Set the number of channels and channel colors

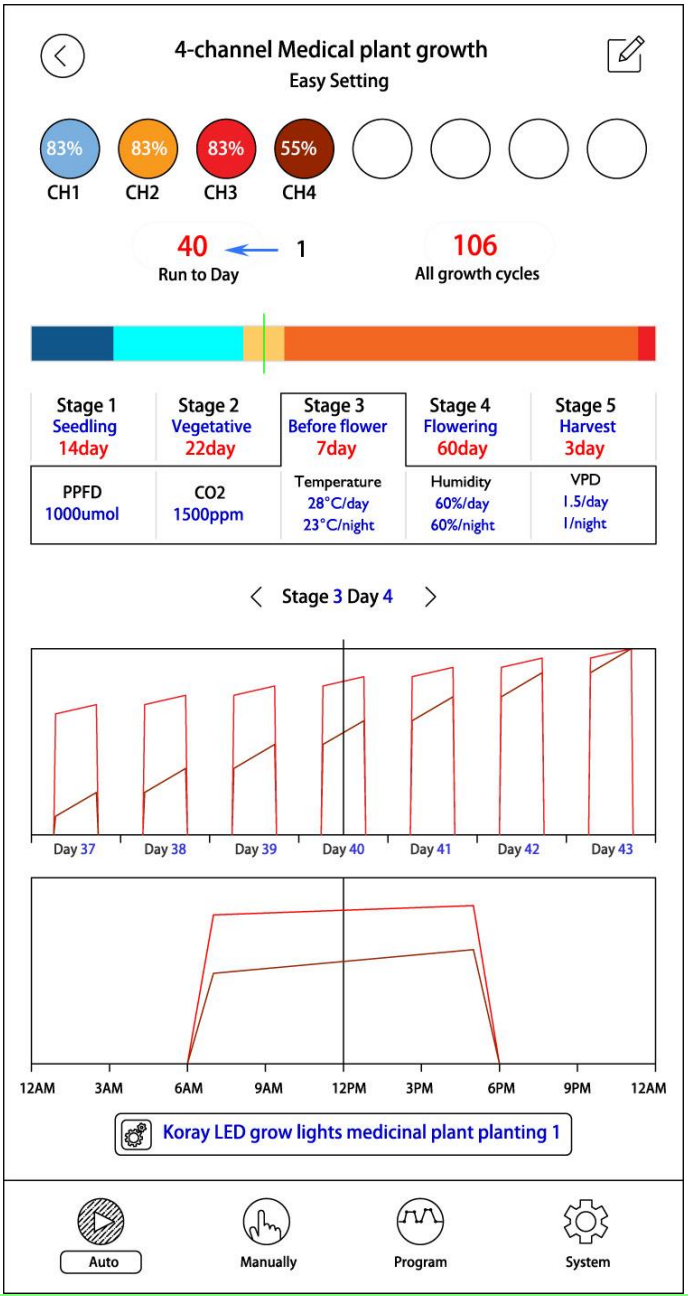


1. Click to add growth stage
2. Long press to set growth days, brightness, CO2, temperature and humidity
3. Click to select time
4. Set the brightness value of the selected time
5. Send and save

7. Auto run-run the programmed program or default program

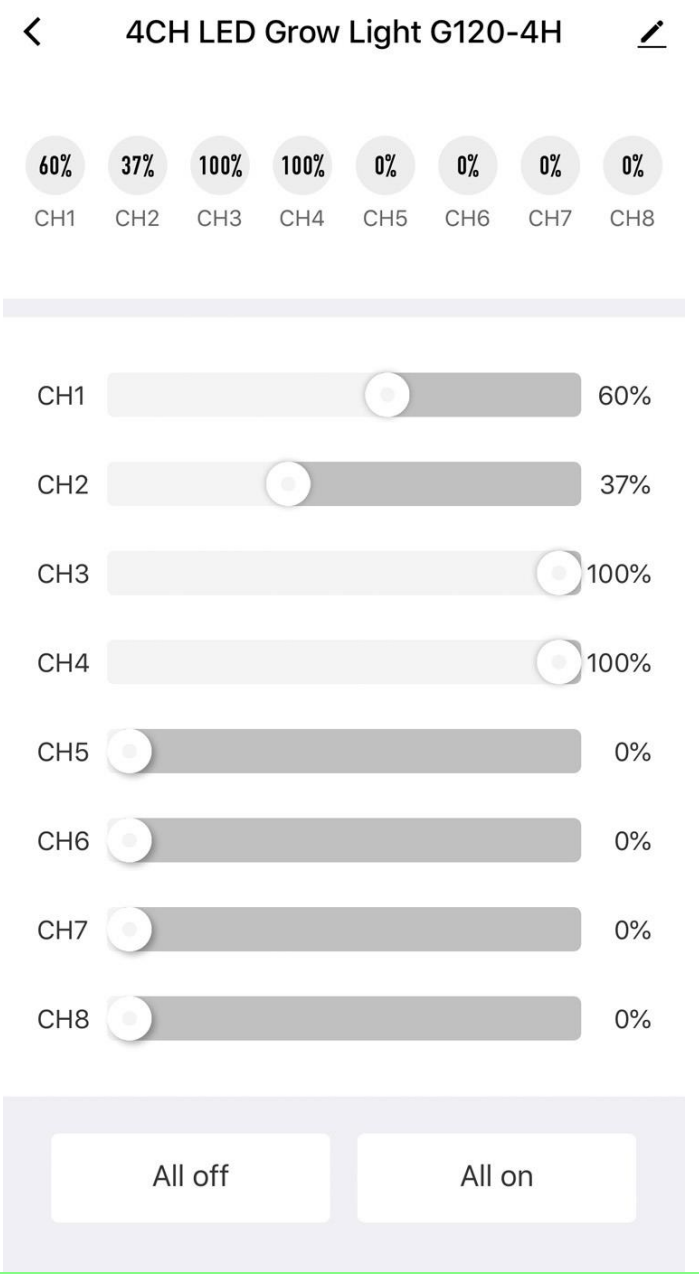


1. Click Run Program
2. Programming settings
3. Copy the program

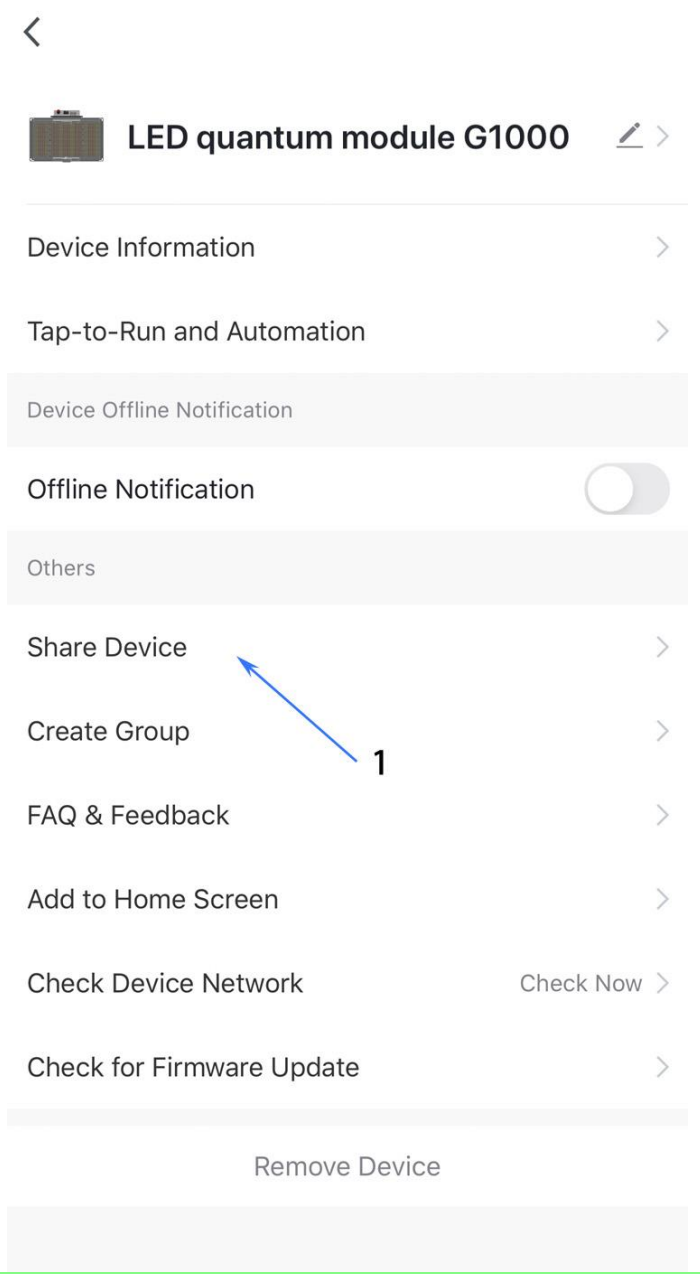


1. Set the number of days to start the run (long press to set the start time of the run)

8. Manual control and Share Device



Can manually control channel brightness
For testing Device



1.Tap to share device
Used for remote assistance and management, sharing learning
The other party needs to register Horti Guru