

User Manual for App

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1 Overview

Hugreen Plants Monitoring System is the Android and iOS App, which helps to view the data from Hugreen's sensors in real time and to manage the Hugreen's devices. The following steps will show you how to set up the App and use it.

2 Install App

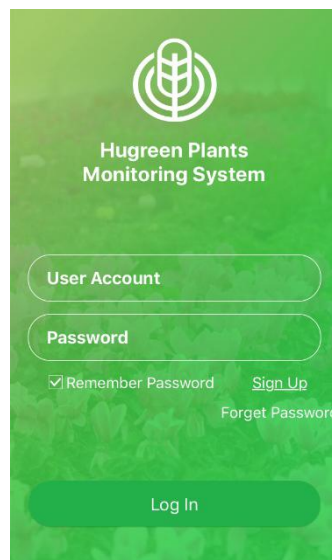
Search and install **Hugreen** from Google Play or App Store. Once the Hugreen Plants Monitoring System app is downloaded, tap the app icon to launch the App.



3 Accessing

3.1 Creating an account

If you already have a Hugreen account, sign in by entering the User Account and Password. If you have forgotten your password, select *Forgot Password* to create a new password. If you do not already have an account, select *Sign up*. Follow the instructions to complete the information.



Fill in your username and phone number with country code. Make sure you use a valid phone number as it will be used for verification purposes. Click on the button *Get Verifi. code*. You will receive a verification code via SMS. Enter this code and your password and confirm your password. Click on *Sign UP* to complete the registration. After you sign into the Hugreen APP, it shows **My Farm** page.

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Sign Up

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My Farm

Refresh

Please Enter User Name

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Please enter your cell

Verification Code

Get Verif. Code

Password

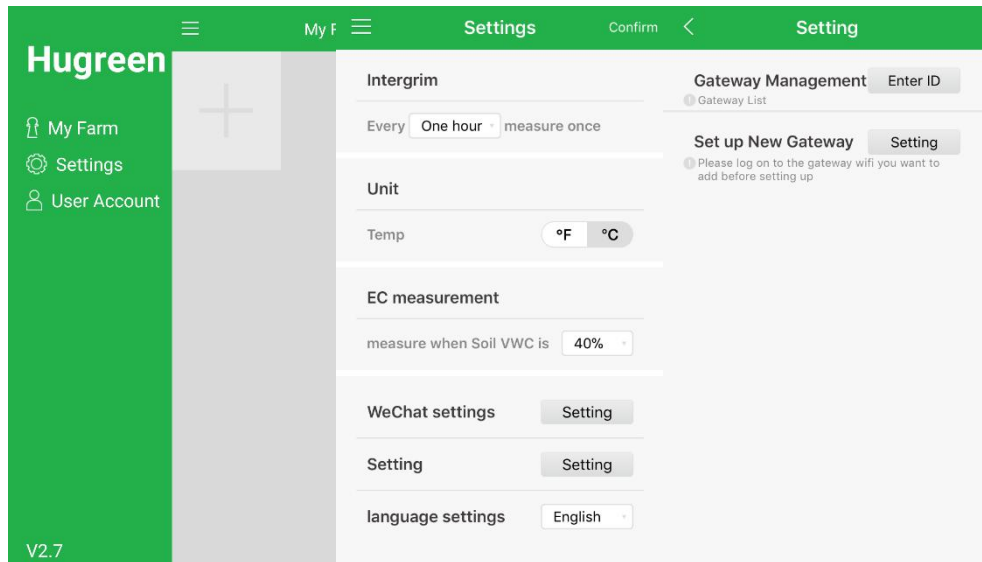
Confirm Password

Sign Up

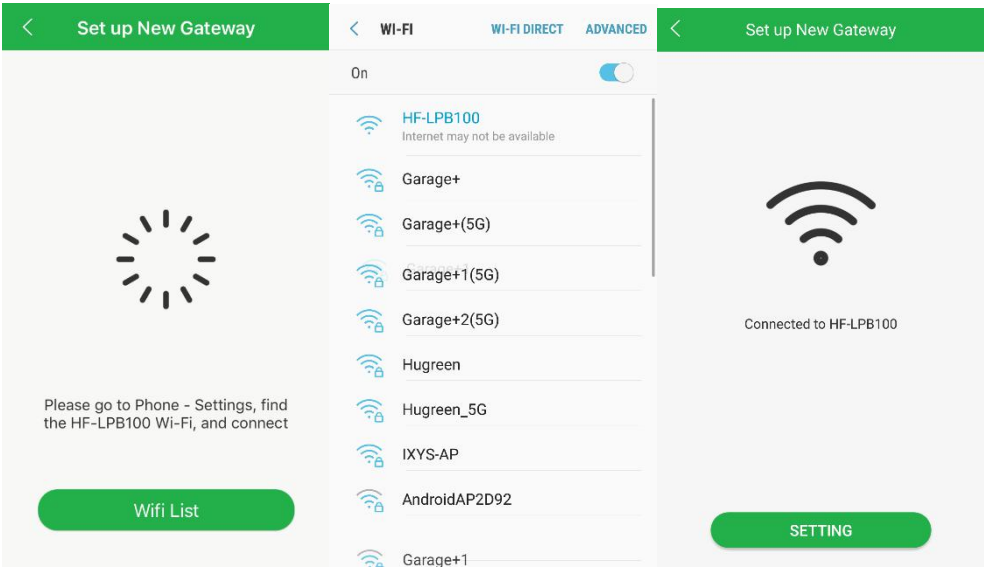
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4 Configuring the Gateway for the first time

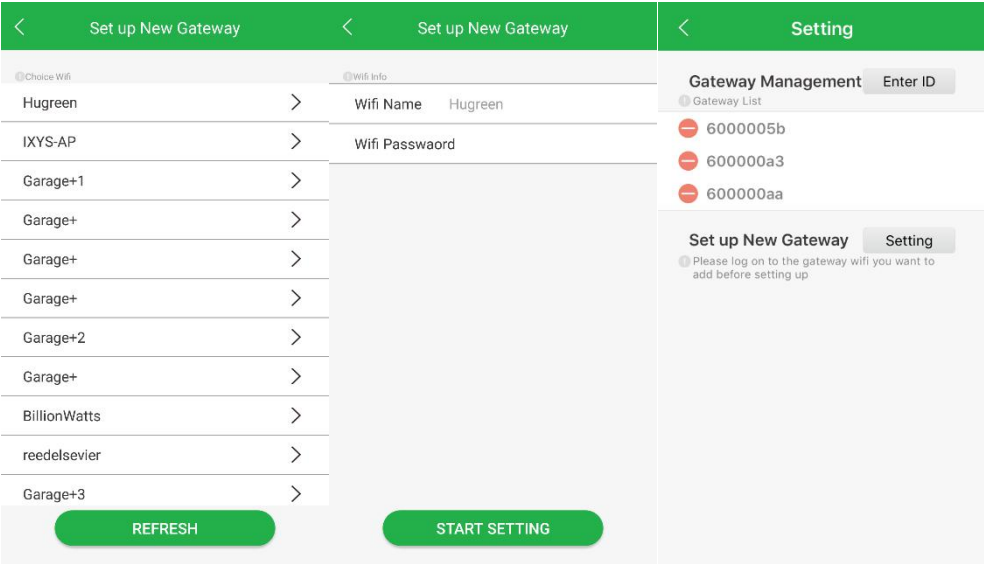
To set up a new gateway, click the *menu* icon  at the top-right > *Settings* > *Setting*. Click set up New Gateway *Setting*. Install your gateway device according to the manual and press and hold the restart button for 5 to 6 seconds to activate it.



When the Gateway is installed, click *Wifi List*. It guides you to the Wi-Fi settings on your phone and select a Wi-Fi with the SSID “**HF-LPB100**”. Go back to Hugreen’s APP and click *Check the Wi-Fi* to verify the connection to your gateway. If it is connected to **HF-LPB100** successfully, click the *SETTING* button to continue.

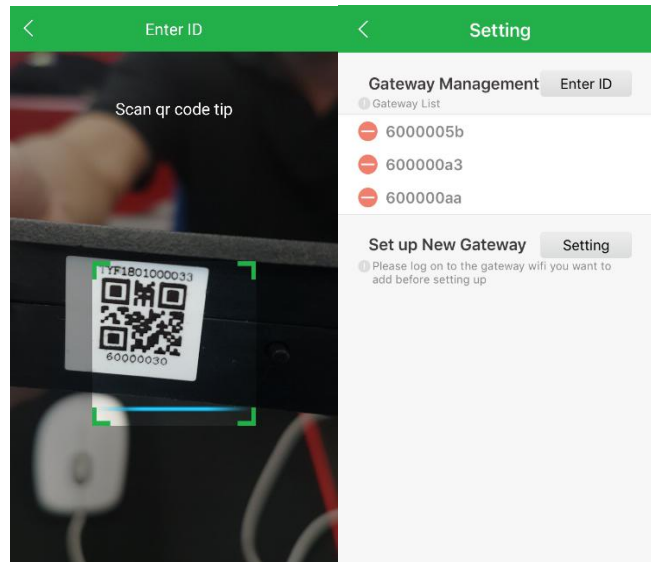


It will initiate your gateway for a moment. After it finishes, the screen shows all the possible Wi-Fi connections. Select a Wi-Fi that your gateway is connected to. Enter the Wi-Fi password (if it is necessary). Click *START SETTING*. The page goes back to **gateway setting** page.



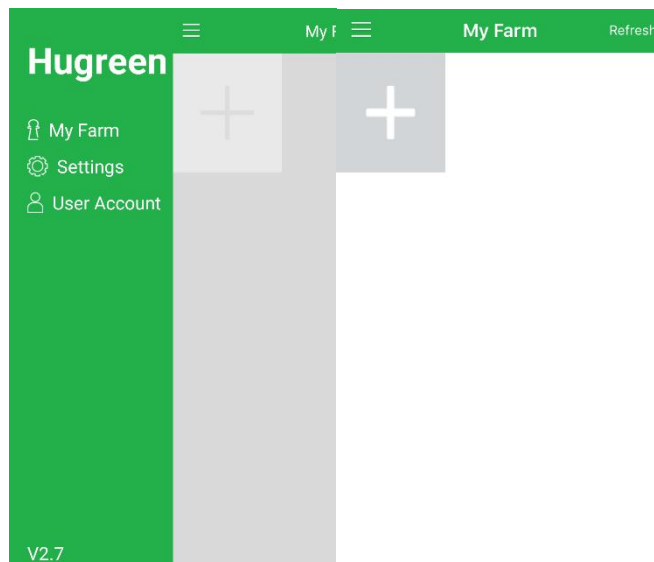
4.1 Gateway management

Click Gateway management *Enter ID* on the **gateway setting page** and your phone will go into QR code scanning mode. Scan the QR code on the gateway. When you finish the QR code scanning, the App will get the gateway information automatically and shows the ID of your gateway on the list.

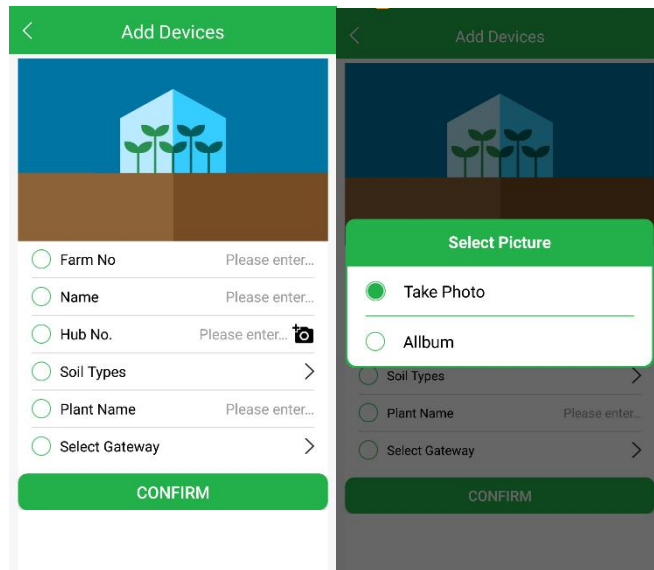


5 Add devices to my farm

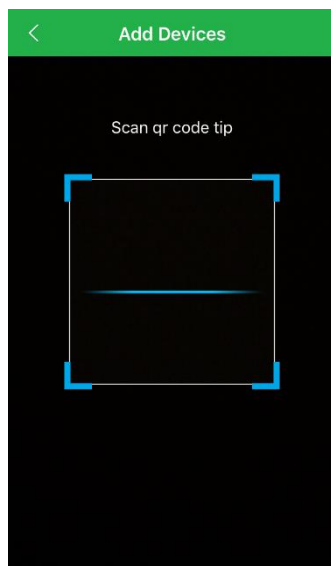
Click the *menu button* at top-right > *My farm* and click  to add a new hub. Follow the instruction for completing the information of your hub.



Click *image* at the top, upload a photo from your album or take a photo.



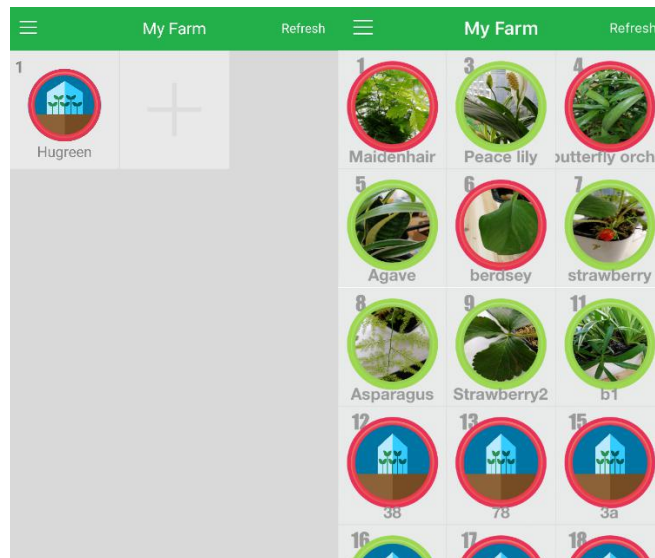
Click *camera icon*  to go into QR code scanning mode. Scan the QR code on the hub to get the information of the device automatically. After completing all information, click *Confirm*. Install your hub properly by putting in the batteries and inserting the sensors to start your real-time measurement. After inserting the batteries, the hub should be installed and operated in the farm with minimum distance 20cm far away from human body.



5.1 Monitor Your Farm via My Farm Page

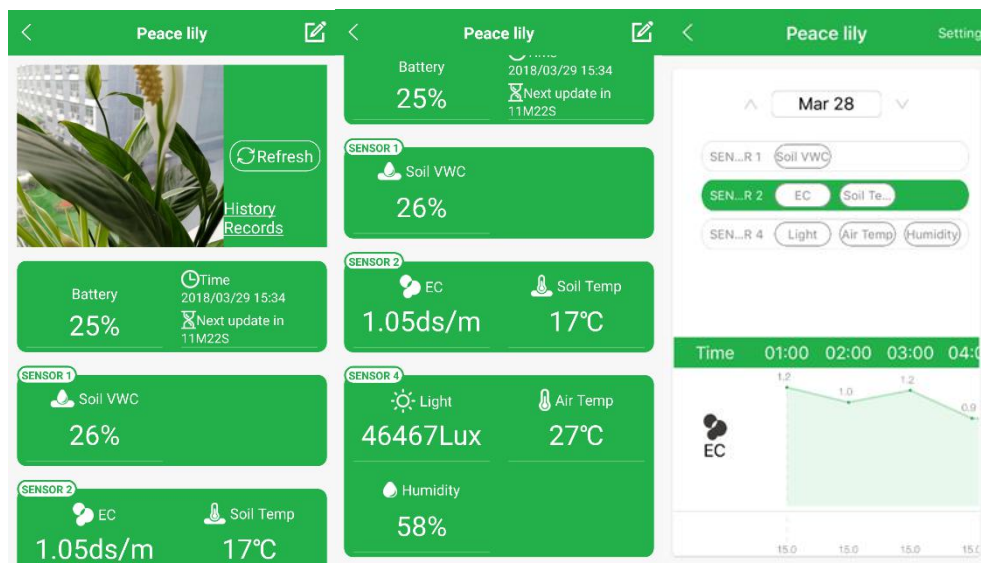
On the **My farm** page, you can see the list of all your devices and their conditions. The ring light shows the conditions of your farm (hub). GREEN means all the sensors readings and battery are good and lie in the alarm ranges (section 5.3 shows how to set the alarm system). On the other hand, RED means sensors readings go beyond the set range and you need to take care of your farm immediately.

Click on the ring to see more details on this Farm (hub).



5.2 The information related to the device

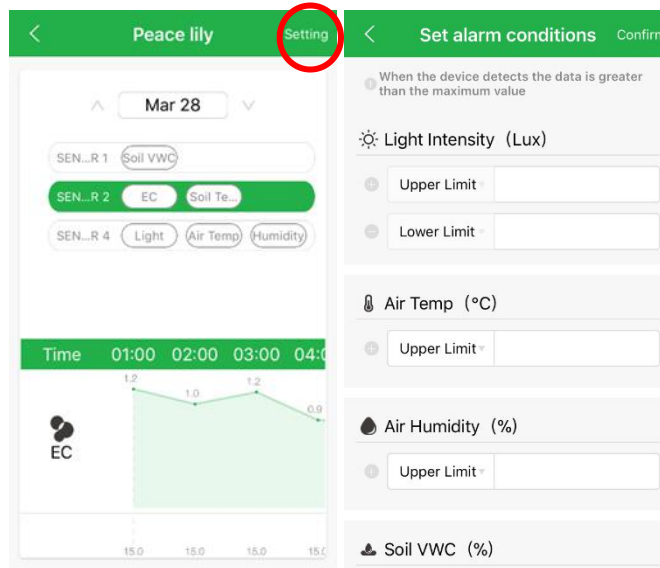
You can easily monitor all the measurements from sensors connected to this hub. If you click the *History Records*, it shows the daily summary in charts from your hub.



5.3 Set the Alarm System

Click the Setting at the top-right on the **History Record** page, it goes to **Set alarm conditions** for setting a threshold for your sensors.

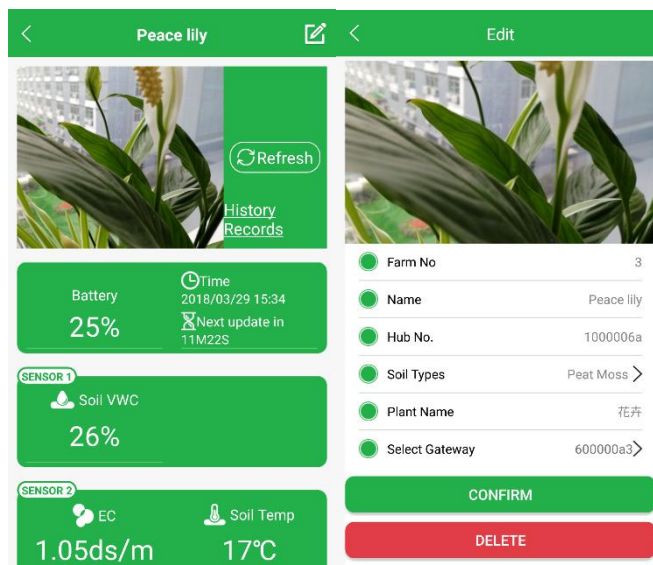
You can set a minimum and/or maximum of different conditions. Click add icon  in front of the Upper Limit to add a new threshold. Click *Confirm* at the top-right to finish your setting. If the measurements from your sensor are out of the range that you've set, it will pop-up a notification on your phone.



Hugreen app sends push notifications to your phone if sensor readings are beyond the set range and the ring turns red on the My Farm page.

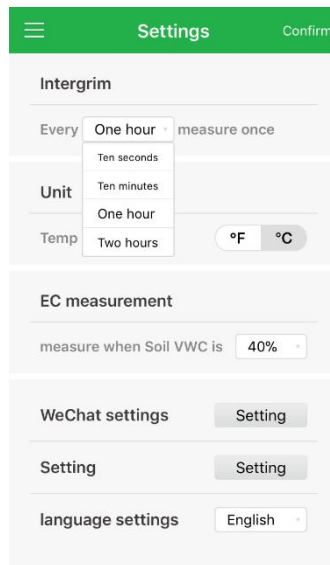
5.4 Edit the information of hub

You can also modify the information of your hub by clicking the edit icon  at the top left.



5.5 Modify the measurement frequency

Click *Setting > Frequency*. Choose the frequency (10secs, 10mins, 1 hour and 2 hours) you want to take a measurement and click *Confirm*.



The screenshot shows a mobile application's 'Settings' screen. At the top, there is a green header bar with a hamburger menu icon on the left, the word 'Settings' in the center, and a 'Confirm' button on the right. Below the header, the screen is divided into several sections. The first section is titled 'Intergrim' and contains a dropdown menu labeled 'Every' with options 'One hour', 'Ten seconds', 'Ten minutes', and 'One hour'. To the right of this dropdown is a 'measure once' button. Below this is a 'Unit' section with a dropdown menu showing 'One hour' and 'Two hours'. To the right of the unit dropdown are two radio buttons labeled '°F' and '°C'. The next section is titled 'EC measurement' and contains a dropdown menu labeled 'measure when Soil VWC is' with a value of '40%'. Below this are three sections, each with a label and a 'Setting' button: 'WeChat settings', 'Setting', and 'language settings' (which has a dropdown menu showing 'English').

FCC Regulations:

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.

This device 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 radiated 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.

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

RF Exposure Information:

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm (8 inches) during normal operation.

