

1. Download “USBeacon Writer” onto your smartphone or tablet with Android 4.3 or above.

Search for “USBeacon Writer” from Google Play or enter the following url:

<https://play.google.com/store/apps/details?id=com.THLight.BLE.USBeacon.Writer.Simple&hl=en>



USBeacon Writer



QR Code Shortcut

2. Create an account and log into the USBeacon server for the first time.

The screenshot shows the 'Login' screen of the USBeacon Writer app. It features a dark grey background with white and red text. At the top, the word 'Login' is written in red. Below it are two red input fields for 'user name' and 'password'. A red 'Remember Me' checkbox is located below the password field. A blue link for 'Forgot Password?' is positioned to the right of the checkbox. A large red 'Login' button is centered below the input fields. Below the 'Login' button is a blue button with a Facebook 'f' icon and the text 'Login with Facebook'. At the bottom is a large green 'Create New Account' button. A small link at the very bottom reads 'Do not have an account yet? Get one instantly!'. Three callout letters are present: 'C' points to the 'user name' field, 'B' points to the 'Login' button, and 'A' points to the 'Create New Account' button.

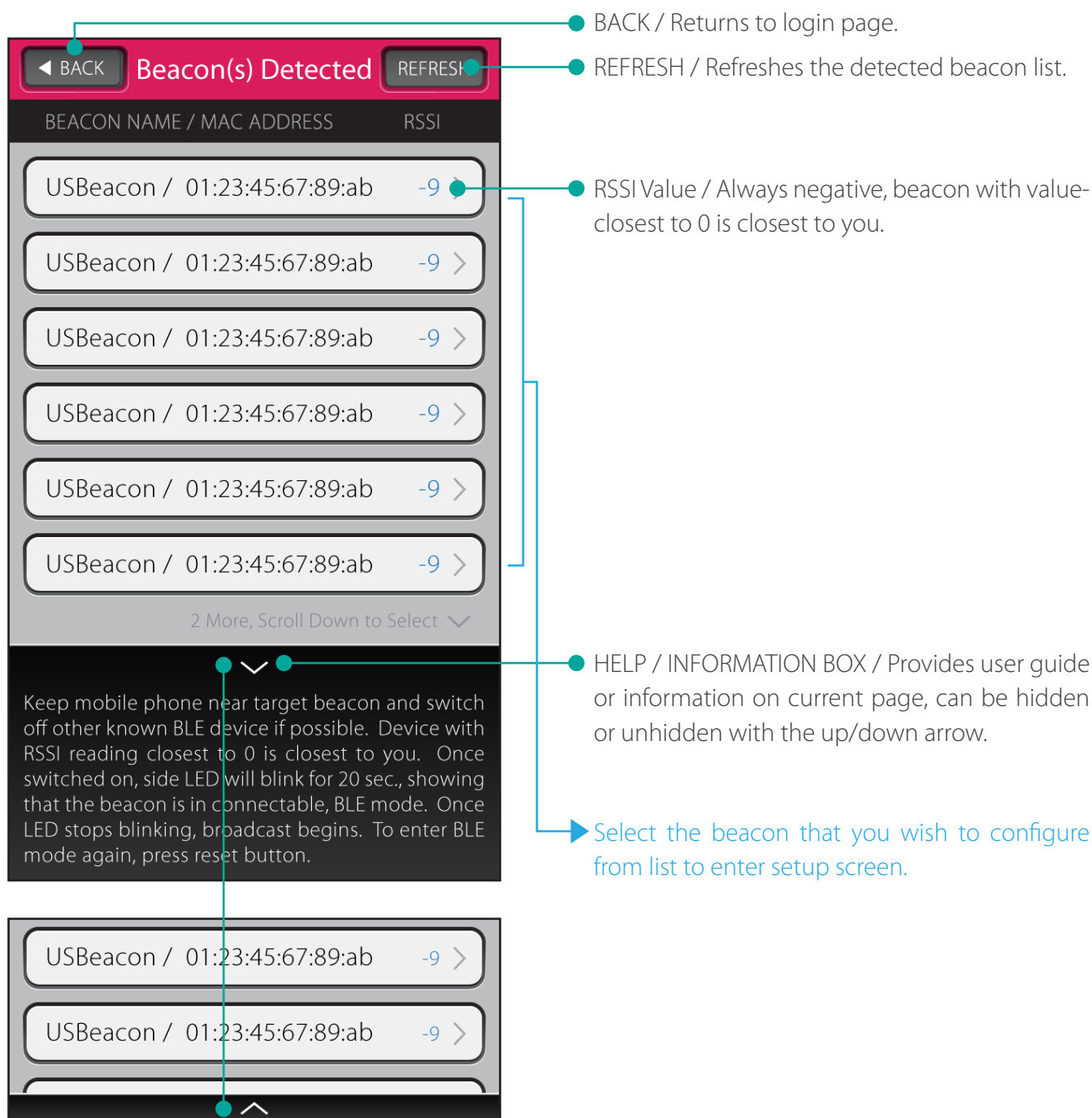
C After you have created your account, enter your user name and password to log into server. If your smart device is accessible only by authorized personnel, you may check the “Remember Me” check box to save time in the future.

B If you chose to create your account with Facebook login and have the Facebook App installed on your smart device, user name and password will not be required to log in. All you need to do is hit the “Login with Facebook” button to enter the system.

A If this is your first time using the USBeacon Writer App, please create an account by hitting the “Create New Account” button. If you would like to log in with Facebook account, please go to: www.usbeacon.com.tw/console/index.html and select Facebook login to link your Facebook account to your new USBeacon account.

3. Detected Beacon List.

After a successful login, immediately follows the detected beacon list page. This page shows all the BLE devices detected in current environment. Make sure the targeted beacon is on, and if possible, switch off other bluetooth devices to avoid confusion.



4. Creating new beacon profile or link profiles to beacon.

Once you have selected a beacon to proceed with setup, there are minor differences as to what to do next depending on the status of the beacon:

◀ BACK Server Data

NEW

Create New Beacon /
Enter New Beacon Info

Name / BEACON NAME 16 CHAR
MAC / 01:23:45:67:89:ab
UUID /
Major/Minor /

A

If you have not used the server to create beacon profiles already, choose "Create New Beacon" to enter setup to create your beacon's profile.

B

If you have used the server to create beacon profiles already, the profiles will show up under the Create New Beacon tab (requires internet connection to sync profiles from server). Select the desired profile to make a link from profile to beacon.

◀ BACK Beacon Config

BEACON INFO ⚡ ⚙

BEACON IDENTIFICATION

NAME /
MAC / UNCHANGEABLE INFO
UUID / 550e8400-e29b-41d4-a716-446655440000
MAJOR / MINOR /

NOTES

Last Update:

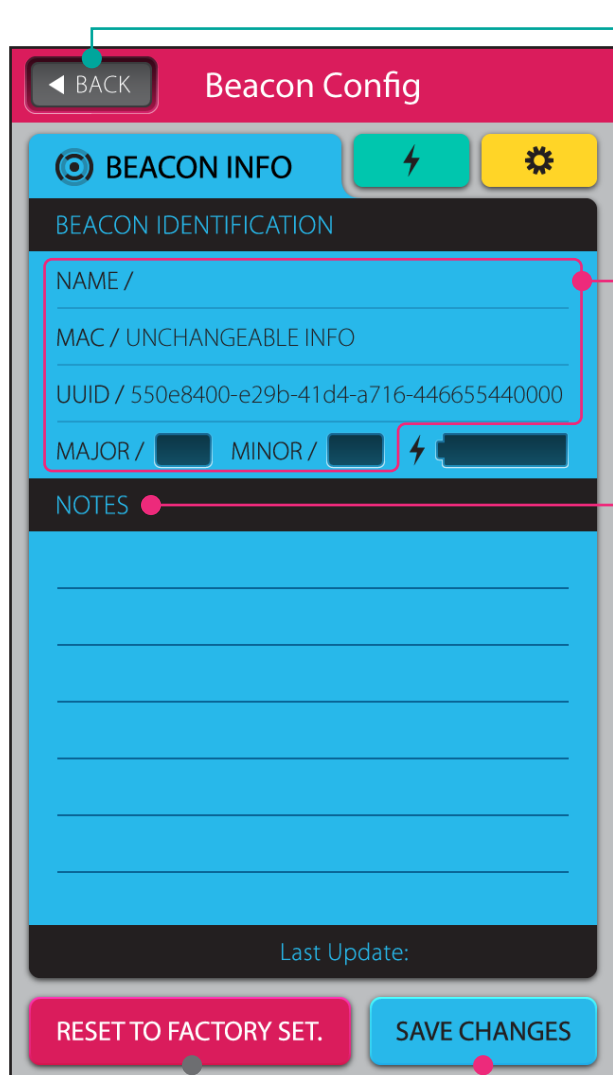
RESET TO FACTORY SET. SAVE CHANGES

C

Beacon Config / You will reach this page either by the A or B route above. Or, if your beacon has been configured previously, upon your selection from the "Beacons Detected" page, the system will automatically jump to this page since your beacon has already been linked to a profile.

5. Beacon Configuration - Beacon Information

Once you have selected a beacon to proceed with setup, there are minor differences as to what to do next depending on the status of the beacon:



Beacon Config

BEACON INFO

BEACON IDENTIFICATION

NAME /

MAC / UNCHANGEABLE INFO

UUID / 550e8400-e29b-41d4-a716-446655440000

MAJOR / MINOR /

NOTES

Last Update:

RESET TO FACTORY SET. **SAVE CHANGES**

- **BACK** / Returns to "Beacons Detected" page without saving any changes made.
- **NAME** / User may name each beacon freely as a reminder of its function or location; name must be within 24 characters.
- **MAC** / Obtained from beacon itself; cannot be changed.
- **UUID** / Obtained from server end; cannot be changed.
- **MAJOR & MINOR** / Can be values anywhere from 0 ~ 65535.
- **BATTERY** / Indicates that beacon is powered by battery; remaining battery life is represented with bars (3 = full).
- **USB POWER** / Indicates that beacon is powered by USB.
- **NOTES** / Allows user to enter any notes (function not activated yet as of 2015.08, coming soon).
- **RESET TO FACTORY SETTINGS** / Restore all beacon settings back to factory settings.
*Warning: Customized settings will not be able to be restored once a beacon is reset.
- **SAVE CHANGES** / Saves all changes made and reboots beacon.

6. Beacon Configuration - Power Management

While the beacon will function fine with factory power settings, changing its power settings according to your specific needs will allow the beacon to work with optimal efficiency.

Beacon Config

POWER MANAGE

POWER MANAGEMENT

Tx Power / 50 meters max range

Broadcast Frequency / 4 per sec, 250 ms

BLE Mode (Open to Connection Window) / 20 s

REMAINING BATTERY LIFE (ESTIMATED)

120 Days Left

RESET TO FACTORY SET. SAVE CHANGES

- BACK** / Returns to "Beacons Detected" page without saving any changes made.
- Tx Power** / Allows user to adjust signal strength; more energy (shorter battery life) is required for stronger signals.
- Broadcast Frequency** / User may use either X times per second or X milliseconds per broadcast to change beacon's broadcast frequency; more energy (shorter battery life) is required for more frequent broadcasting. (Min = 1, Max = 30, times per sec.)
- BLE Mode** / This setting is for previous beacon models only; it is disabled automatically if you are running a new version beacon.
- REMAINING BATTERY LIFE** / This is an estimated remaining battery life calculated with power settings above. It serves to help user in assessing the type of the power settings that is most efficient.

Tx Power - This option allows user to adjust signal strength according to need.

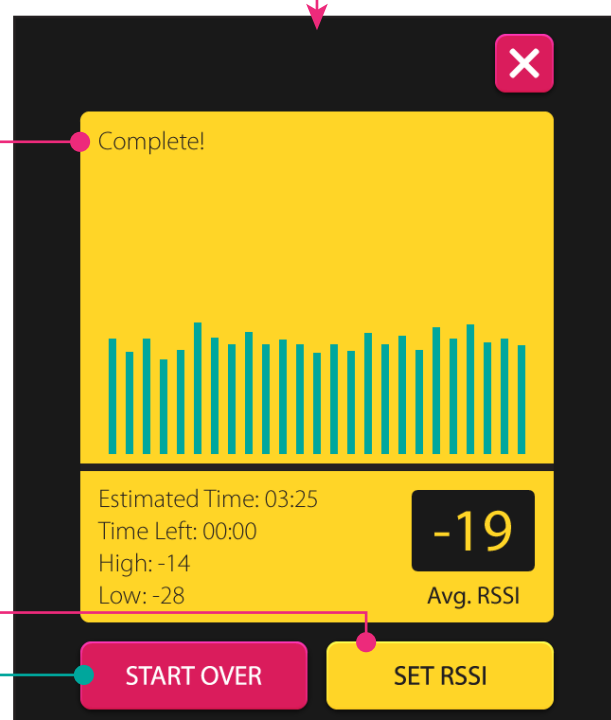
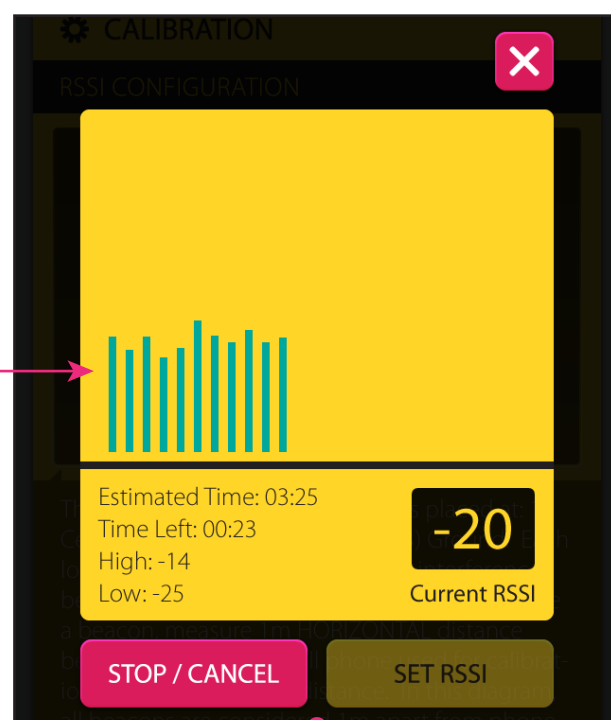
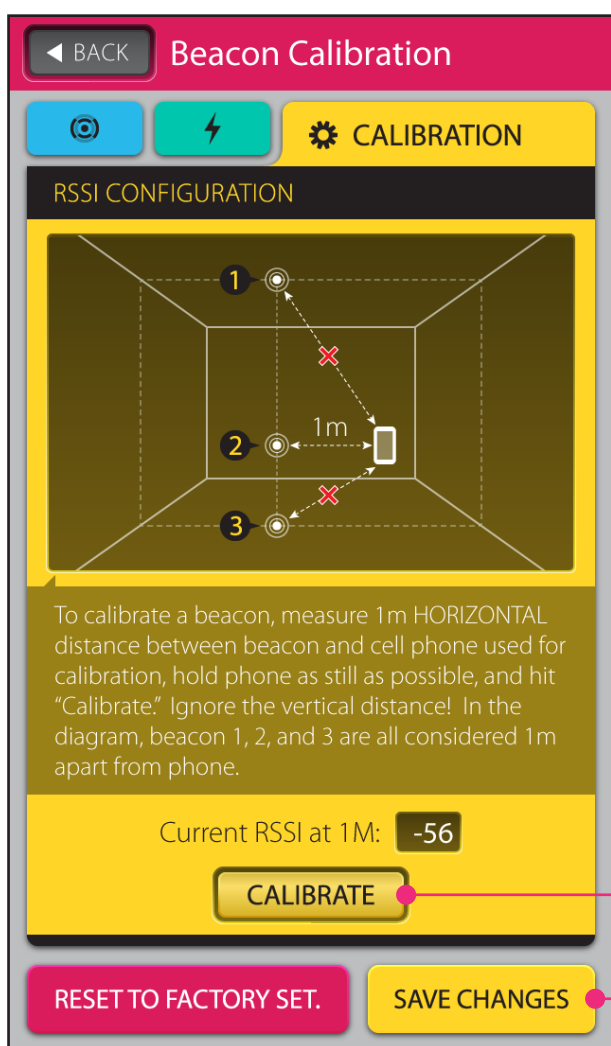
Broadcast Frequency - May be adjusted with either X number for times per second, or 1 broadcast every X amount of time (ms).

BLE Mode - This is the time window after a beacon reboots during which user may connect with this app to alter settings. After this window, beacon returns to beacon mode and begins to broadcast.

Enter battery capacity labeled on packaging, right box shows estimated life based on power settings.

7. Beacon Configuration - Calibration

iBeacons have many useful applications, and most of these applications will require accurate RSSI-to-distance settings in order to trigger the corresponding broadcast/actions at desired distance. Although THLight's USBeacon series all have extremely stable signals (RSSI values), they will still require a calibration if installed at different heights or in environments with high level of interference.



When calibration is complete, use the "Set RSSI" button at the bottom right to set new RSSI value as RSSI Value at 1 meter. Be sure to save changes in the main Calibration UI when pop screen is closed.

If there were any abnormal interference or if the placement of smart device is incorrect in anyway, hit "Start Over" to calibrate RSSI again.

警語

經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

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.

CAUTION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

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.

RF exposure warning

The equipment complies with FCC RF exposure limits set forth for an uncontrolled environment.

The equipment must not be co-located or operating in conjunction with any other antenna or transmitter.