

Introduction

The document is a quick guide for iBS08 to quickly verify it, please download INGICS iBS01 Tag Utility APP from below link(Android only):

<https://play.google.com/store/apps/details?id=com.ingics.tag.igstagconfig>



Power on

One CR2450 battery is pre-installed in each iBS08 beacon at shipment. For transportation safety it is powered off by default. User should open the case to turn the power on. **For easier operation, please follow below steps to open/close the case.**

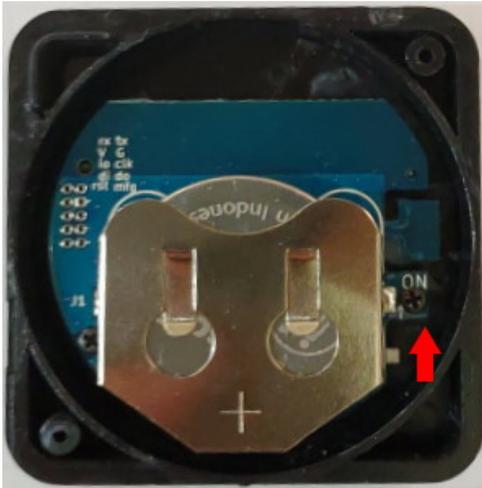
Open the case

1. Prepare a card that you don't need (credit card/member card/employee card)	2. Follow the 1-2-3 sequence	3. Use the card to enlarge the gap position "1"
		
4. Position "1" is enlarged	5. Continue to enlarge position "2". You can rotate the card to do it easily.	6. Go to enlarge position "3". You can rotate the card to open the case now.
		

INGICS TECHNOLOGY

Power on

Switch the small handle to the "ON" position.

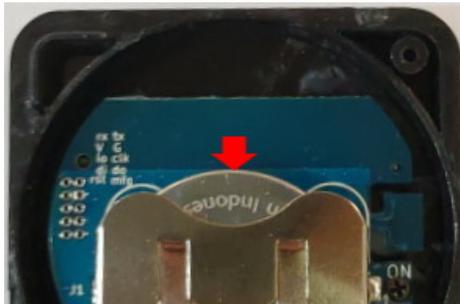


Close the case

1. Check if the O-ring is still settled at the correct position during opening.



2. Make sure the battery is inserted to the bottom of the battery socket.



3. Align the bottom case with the top case by the top left corner.



4. Press the bottom half of the bottom case by your two thumbs



5. Press the top left/right of the bottom case to make the case sealed better



Operation

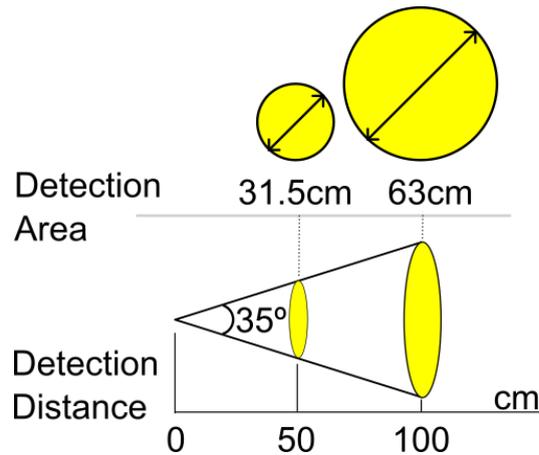
Basically, iBS08 will always transmit BLE payload in the configured time period(default 30s) in background. It can be used to track the position of a target by deployment with iGS01S, iGS02E and iGS03W/M/E beacon gateway.

Thermal Sensor

The thermal sensor is used to monitor the temperature, and judge if humans existed by detecting the temperature change. As the distance increases, the detection accuracy will be affected.

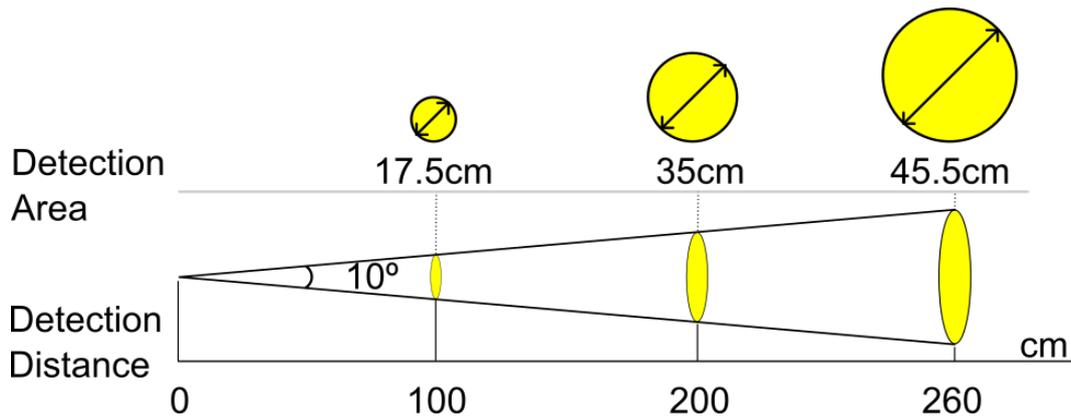
iBS08S(FOV 35°)

The recommended distance is within 1M. The sensor FoV(Field-of-view) is 35 deg. The distance vs detection area (in diameter) is as below figure.



iBS08L(FOV 10°)

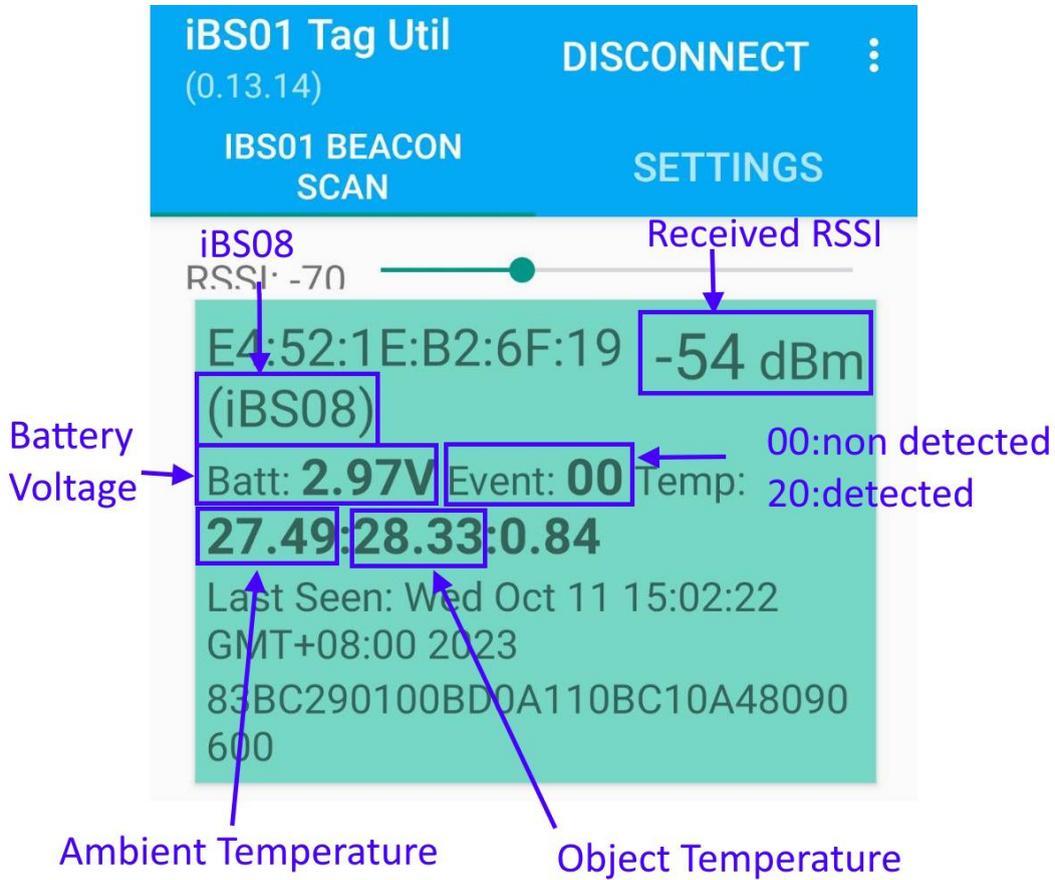
The recommended distance is within 2.6M. The sensor FoV(Field-of-view) is 10 deg. The distance vs detection area (in diameter) is as below figure.



Verifying

1. Power on iBS08
2. Open iBS01 Tag Utility APP and Press "START SCAN". (Please update the latest version)
3. Wait for a while and you should see the BLE payload of iBS08 received by the APP.

Below is an explanation of the payload shown in the APP.



Installation

Please check [AP] BC0059_Sensor_Beacon_iBS08_Deployment_Guide

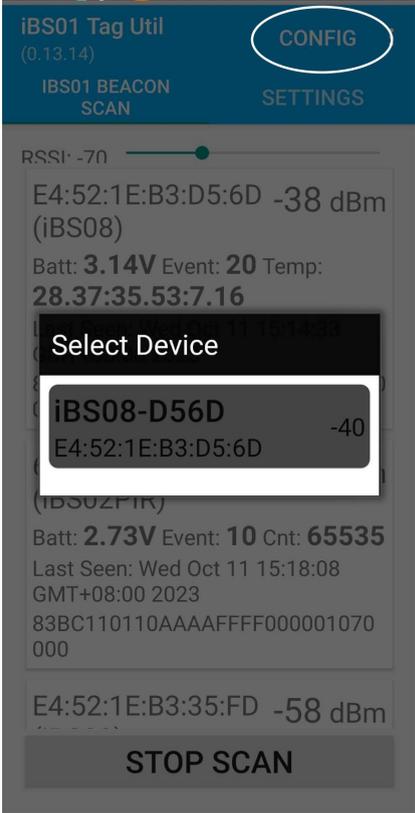
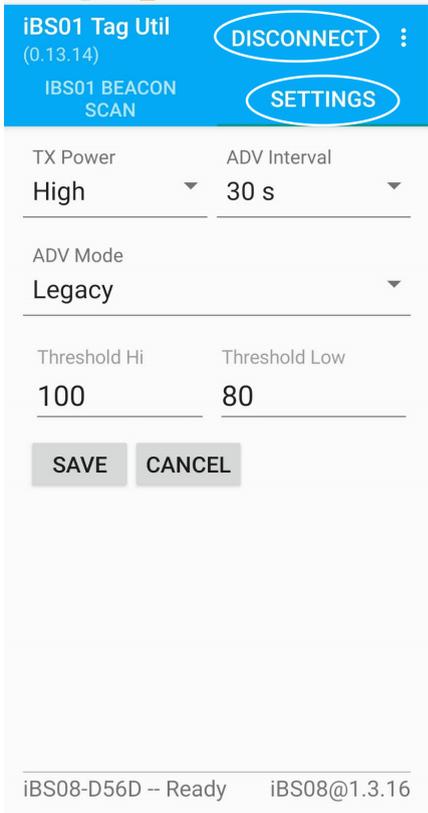
Configuration

When powered on, iBS08 Tag starts to advertise immediately. Users can use iBS01 Tag Utility to scan iBS08 Tag and configure transmit power and advertising internally of iBS08.

The basic configuration steps is

1. At power on, iBS08 will be in configure mode **for 20 seconds**.
2. Connect with the utility.
3. Change the parameters and save
4. Disconnect and then the parameter will be effective.

Details is as following

<p>1. Open iBS01 Tag Util APP</p>	<p>2. Connect iBS08</p> <ol style="list-style-type: none"> a. Power on b. Press CONFIG icon on the up-right corner of utility within 20 secs c. You can see iBS08 to be connected 	<p>3. Configure iBS08</p> <ol style="list-style-type: none"> d. Press iBS08 to connect it. e. In page SETTING, you will see the figure below. f. You can configure the parameters you want and press SAVE and DISCONNECT for the parameters to take effect.
		

Parameters

In iBS08, there are four parameters that can be configured.

- a. TX power: High(+5 dBm), Mid(0 dBm), Low(-6 dBm)
- b. ADV Interval: From 100 ms~60 min.
- c. Threshold Hi:detection - internal >Threshold Hi Indicates detected
- d. Threshold Low:detection - internal <Threshold Low Indicates non detected

Revision History

DATE	REVISION	CHANGES
Oct 16, 2023	0a	Initial release