

ATID Co.,Ltd

ATID Reader Demo Guide for Android


Android Demo Guide Manual

Revised History

Version	Date of revision	Reason for Revision ¹	Revised Content ²	Writer
v0.1	2016-12-26	First Draft		Y.H Park
v0.2	2017-11-06	Revised	- Changing UI - Adding Link Profile , Restart Time, Display Tag Speed.	C.J Kim
v0.3	2017-11-27	Revised	Adding USB Interface Connection.	C.J. Kim
v0.4	2018-01-17	Revised	1. Changing Demo title. ATx88 -> ATID Reader 2. Barcode Option. - Adding Auto Save Mode Setting. 3. Displaying function not supported by ATS100. 4. Revising Type-o 5. Adding how to use ATS100 Inventory Key 6. Adding RFID Module version information to RFID Option에 RFID Module Version. 7. Adding Barcode Module Version to Barcode Option 8. Adding ATS100 USB Smart Phone Charging	SDK Team
v0.5	2018-02-14	Revised	1. Adding ATD100 function display. 2. Adding Limited Tag Count function to RFID Option.	SDK Team
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v0.8	2018-07-11	Revised	1. Adding USB Interface Connection. 2.1.2. How to register a new devices for BLE 2.3.3 How to connect devices for BLE	SDK Team
v0.9	2018-12-14	Revised	1. Change battery display method from icon to Text.	SDK Team
v1.0	2019-02-20	Revised	1. RFID Option Adding Continuous/Report Mode Setting	SDK Team

¹Reason for revision : This section explains whether the new content is the addition, revision, or removal of the original document

²Revised content : Description on revised contents and the revised pages

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1. Overview

The purpose of this document is to describe how to use ATID Reader Demo.

ATID Reader Demo is made to test all the functions of ATID's external accessory device. We recommend it to be used with Android above O/S v6.0.

Currently, ATID Reader Demo is supported by AT188N, AT388, ATS100, and ATD100.

ATD100 has no Barcode function.

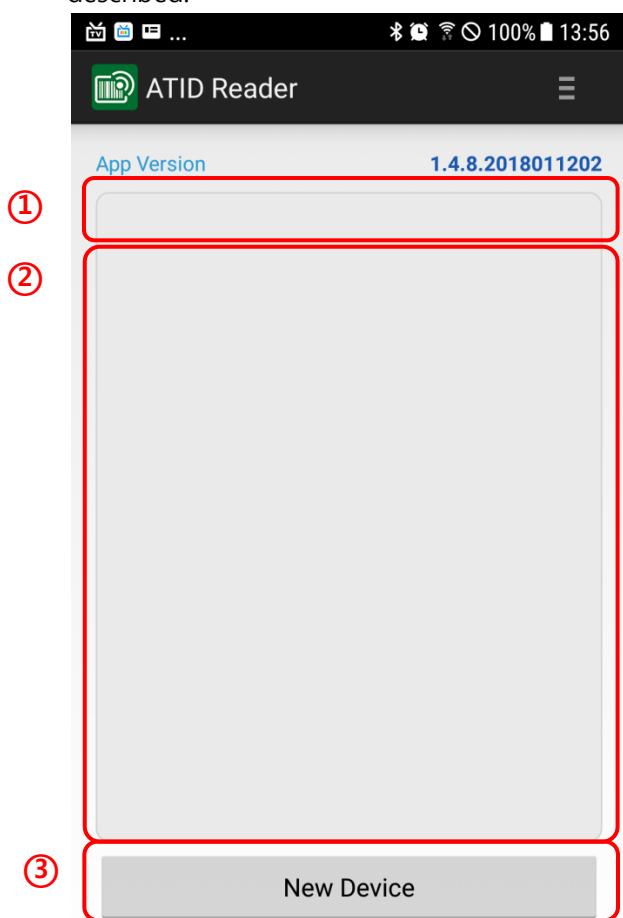
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2. Device Management

Upon turning on ATID Reader Demo, the device setting screen is first to pop up. You are able to manage various devices with ATID Reader Demo.

With ATID Reader Demo screen, you are able to link and remove devices for Demo trial. In other words, this function works to manage connections of various devices.

The picture below is how ATID Reader Demo would look upon its first trial. Each construct is identified and described.




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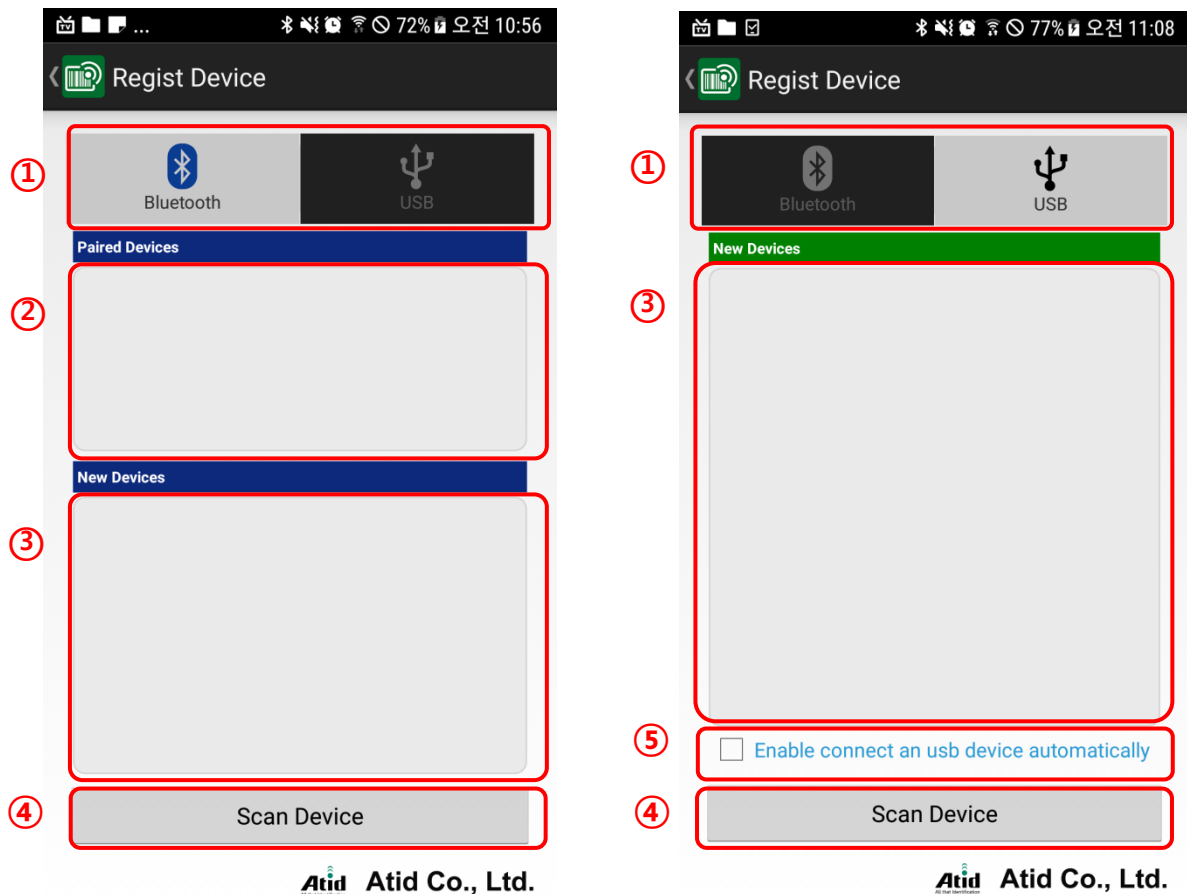
- ① **App Version** :Version of ATID READER Demo App
- ② **Device List**: List of all the devices that are being managed
- ③ **New Device** :Button to add new devices; You can touch it to go to Register Device page

2.1. Register a New Device


Press "New Device" button in Device setting screen.

Then, Register Device page comes up.

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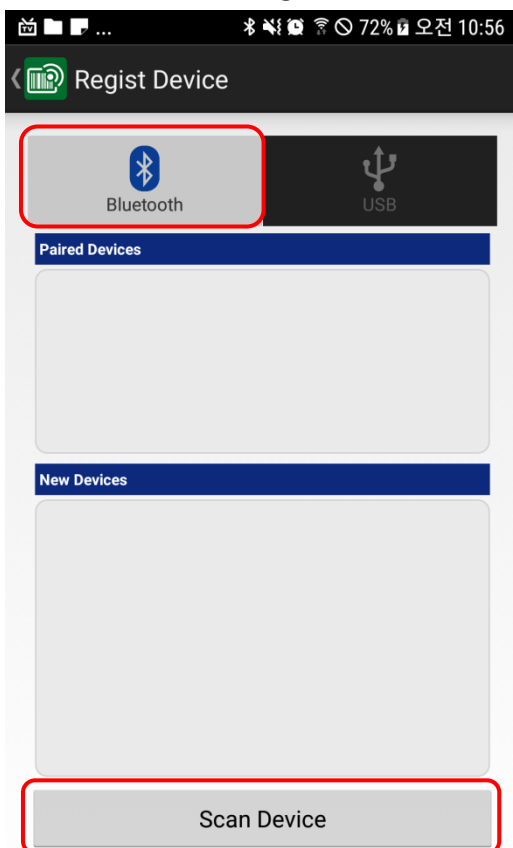
- ① **Interface Type** :Select the device Interface (Bluetooth or USB) for registration.
- ② **Paired Devices(Registered Devices)** : Shows Bluetooth devices already searched
- ③ **New Devices** :Touch "Scan Device" button to show newly added Bluetooth/USB devices
- ④ **Scan Device** :Start searching new Bluetooth/USB devices. When the searching begins, it changes to "Stop" button; You can press "Stop" button to stop the search.
- ⑤ **USB Connect Mode** :You can choose to automatically connect to the device once USB cable is connected.

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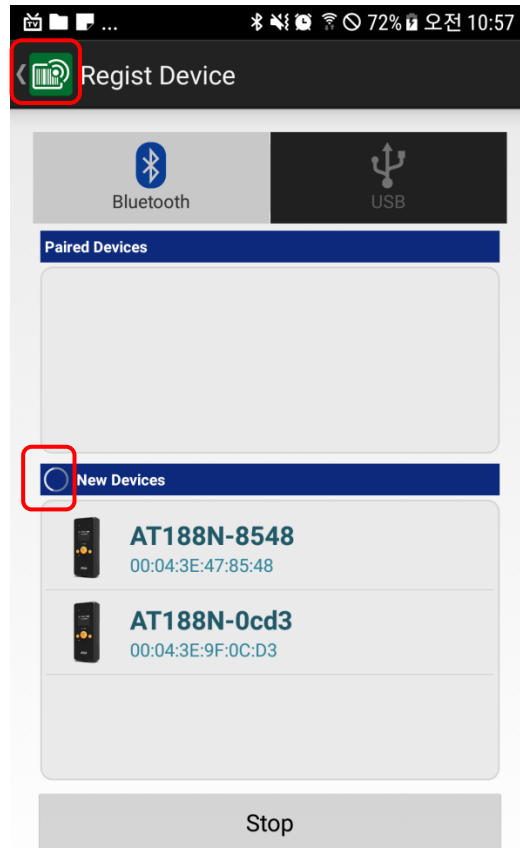
2.1.1. How to register a new device for Bluetooth

Select Interface Type to Bluetooth.

Touch "New Device" button at the Device setting screen. Once the Register device screen comes up, press "Scan Device" to start searching devices.



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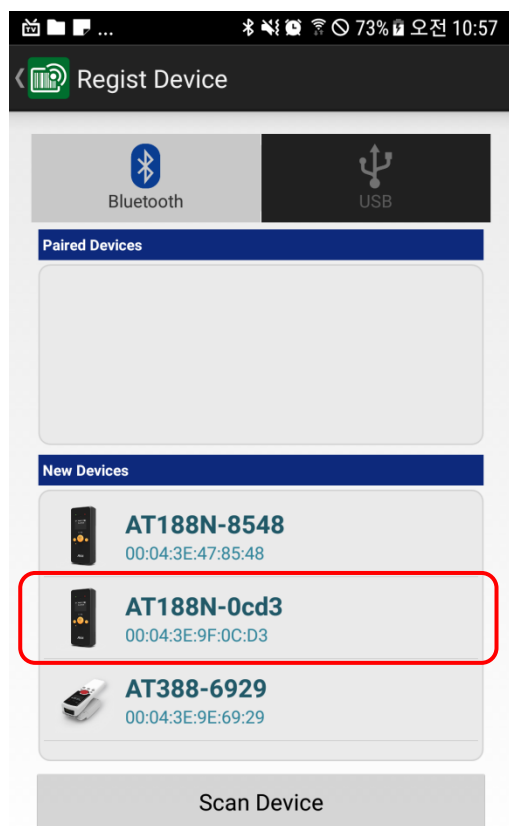
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If the device search is under operation, "Progress" sign pops on the left of "New Devices" list.

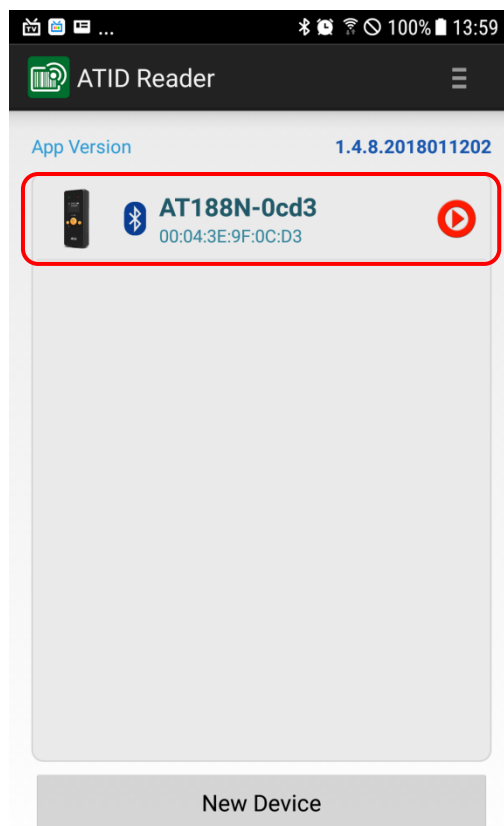
If the device desired for registration is searched out, press "Stop" to finish searching.

If you want to cancel registration, press "Back" button of your smartphone, or touch the icon on the upper-left of the screen. If done so, device registration is canceled, and original device setting screen comes up.

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If the device you want to connect to is searched, touch on the searched device and it moves to the device setting screen from the device registration screen. There, the selected device is registered and becomes manageable.

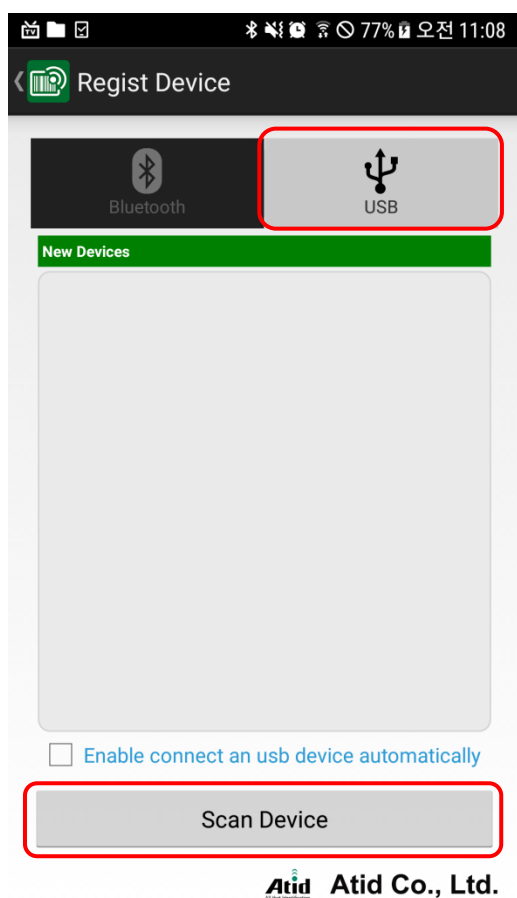
With registration, it will be possible to connect the device and execute various function demonstrations for each device.

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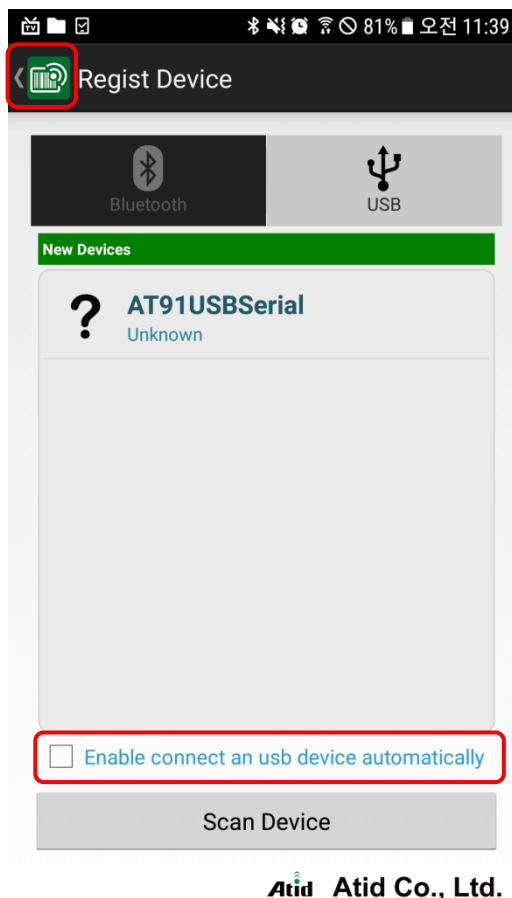
2.1.2. How to register a new device for USB

Select USB as Interface type.

Press "New Device" button at the device setting screen to make device registration screen pop up. Then, you can start device searching with "Scan Device" button.



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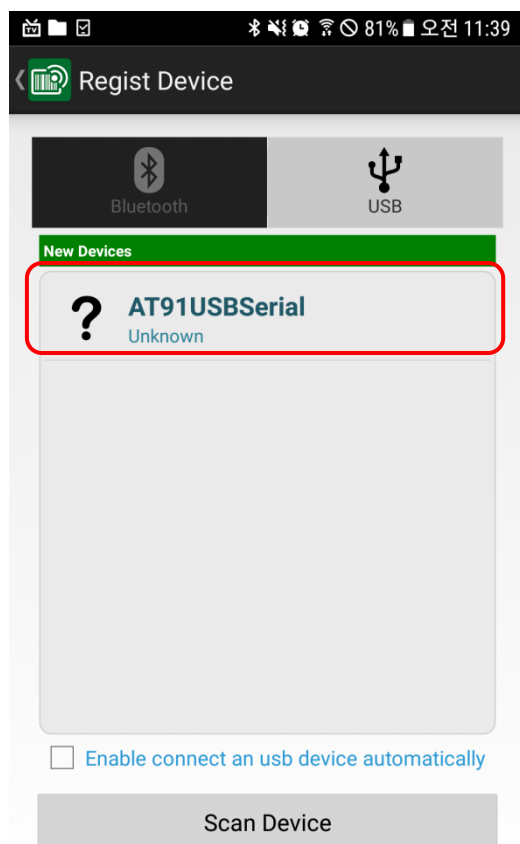
You have to connect the device and the smart phone with USB Cable in order to start the device search.

When the device search starts, a progress message is displayed to the left of the "New Devices" list title, and the "Scan Device" button is changed to the "Stop" button.

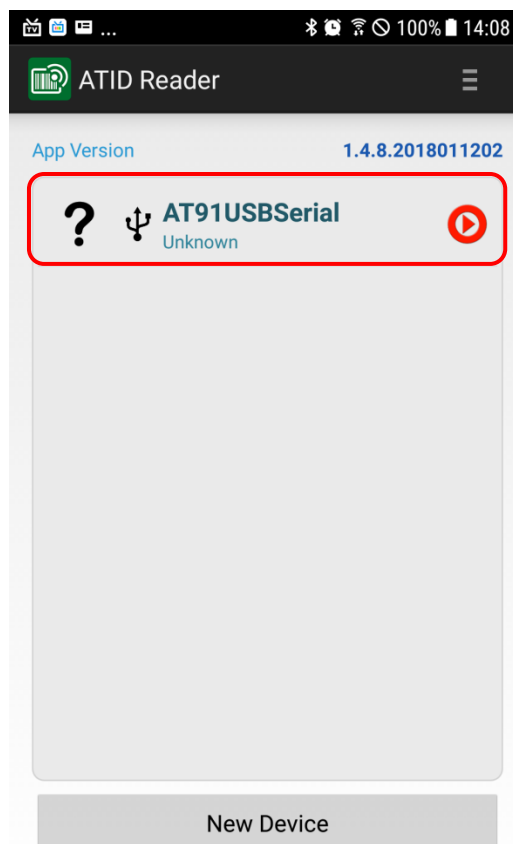
If the device you want to register already appeared, press "Stop" to finish the search operation.

If you want to cancel the registration, press the "Back" button on the smartphone or touch the icon on the left of the title at the top of the screen to cancel the device registration and go back to the device setting screen.

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If the device you want to connect to is searched, touch the searched device and it moves to the device setting screen from the device registration screen where the selected device is registered and becomes manageable.

Select "Enable connect USB device automatically" if you want to automatically connect USB device by connecting USB device to your smartphone without touching the searched device.

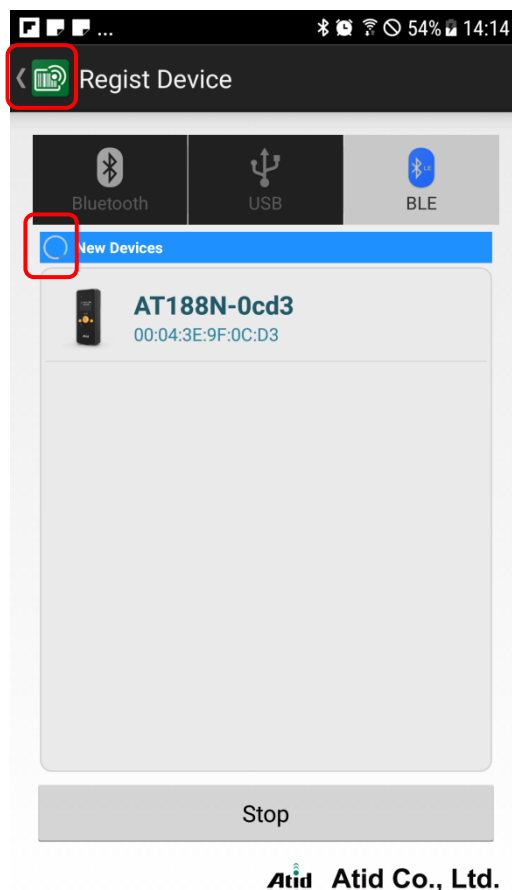
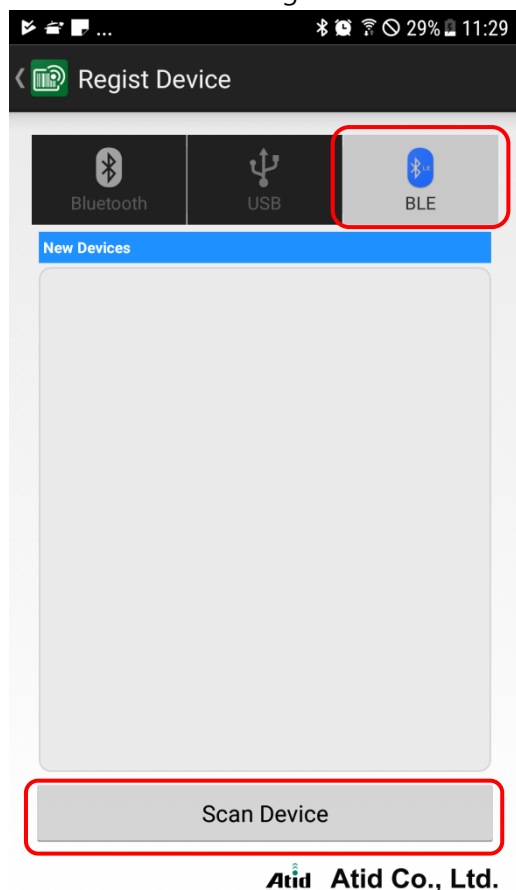
When the device is registered, you can connect the registered device and execute various function demonstrations for each device.

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2.1.3. How to register a new device for BLE

Select Interface Type to BLE.


Touch "New Device" button at the Device setting screen. Once the Register device screen comes up, press "Scan Device" to start searching devices.

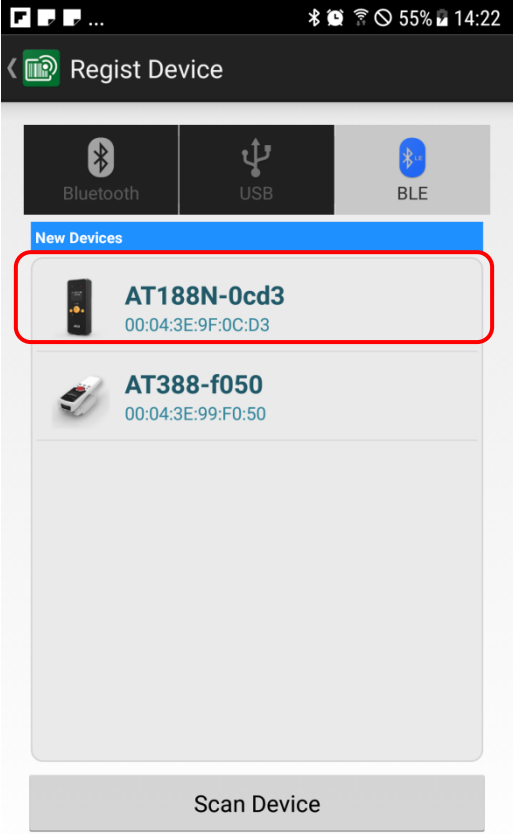


If the device search is under operation, "Progress" sign pops on the left of "New Devices" list.

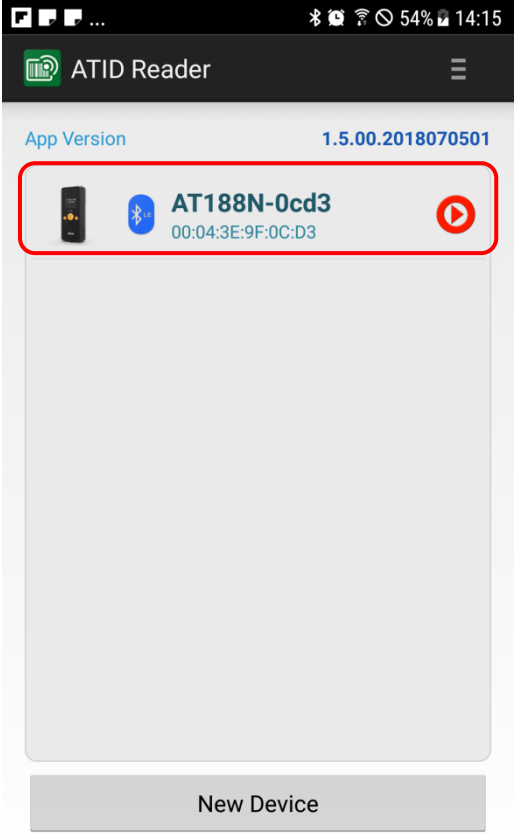
If the device desired for registration is searched out, press "Stop" to finish searching.

If you want to cancel registration, press "Back" button of your smartphone, or touch the icon on the upper-left of the screen. If done so, device registration is canceled, and original device setting screen comes up.

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If the device you want to connect to is searched, touch on the searched device and it moves to the device setting screen from the device registration screen. There, the selected device is registered and becomes manageable.

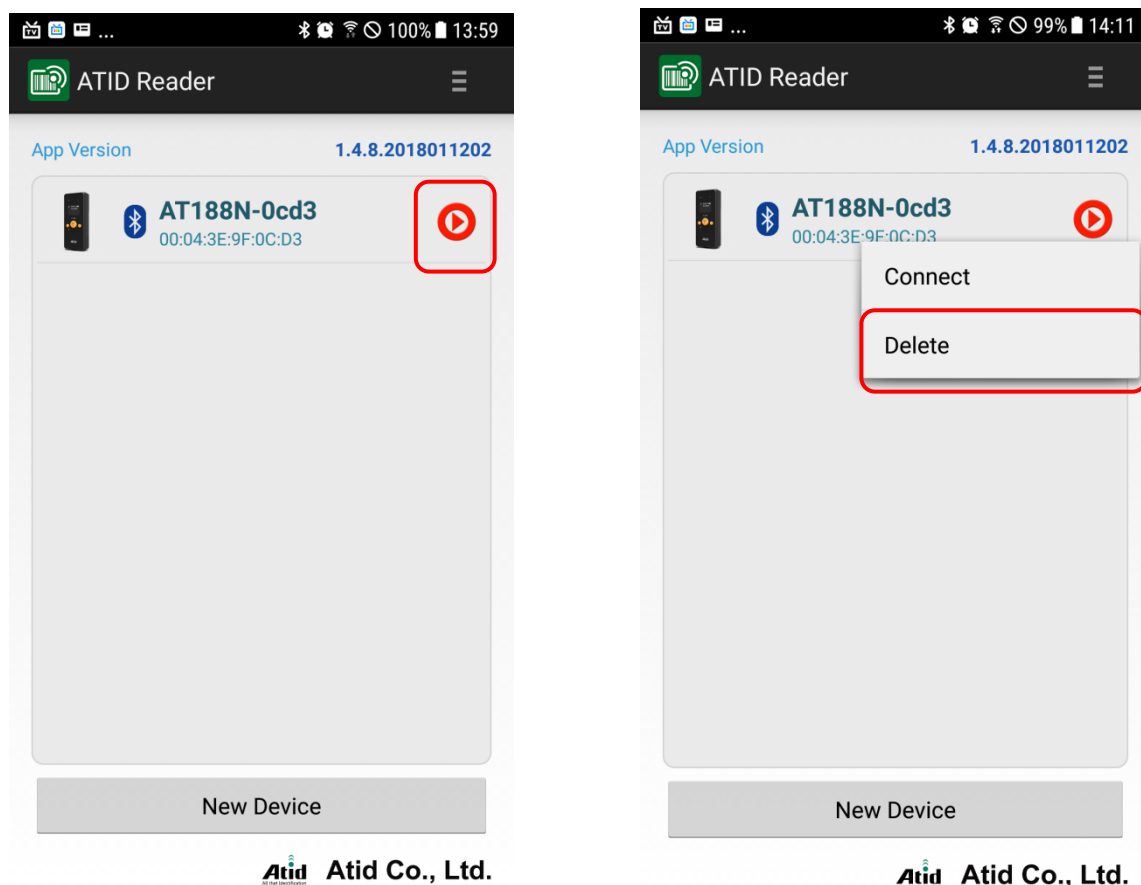
With registration, it will be possible to connect the device and execute various function demonstrations for each device.

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2.2. Remove a Registered Device

When a linked device is no longer in need, you can remove it.

Like the picture below, press the right button of the device you want to remove. Then, a menu pops up.



If you press "Delete" from pop up menu, you can remove the selected device from the list.

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2.3. Connect Device

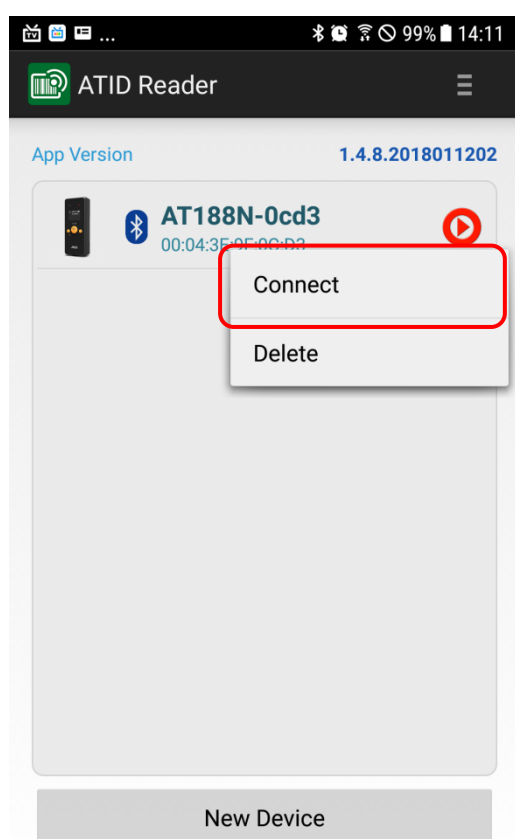
There are two ways to connect a device.

Literally just connecting the device, and moving on to the demo screen immediately after the device is connected. If the device is already connected, demo screen will automatically appear; If it is not connected, demo screen will show upon completion of connection.

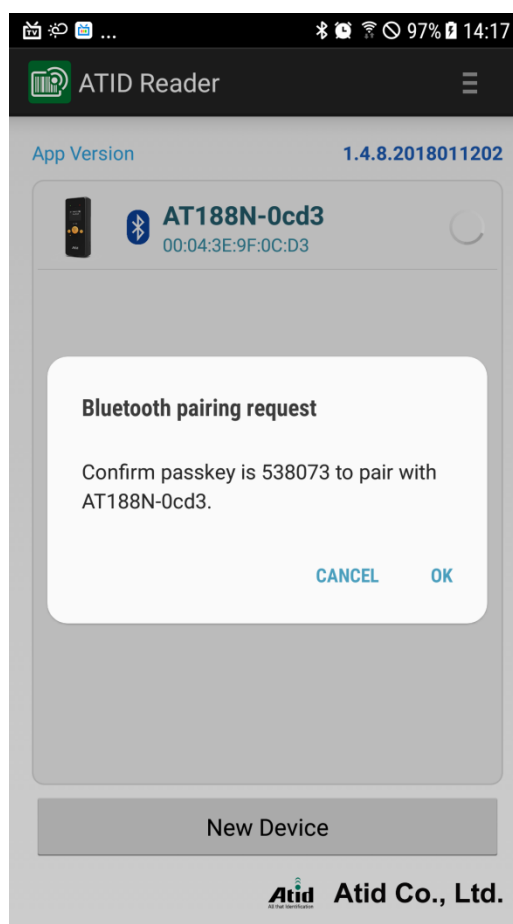
2.3.1. How to connect devices for Bluetooth

Connecting the device is similar to removing the device.

On the device list, press the right button of the device that you are trying to connect, and then touch on the appearing "Connect" button. Refer to the following picture.




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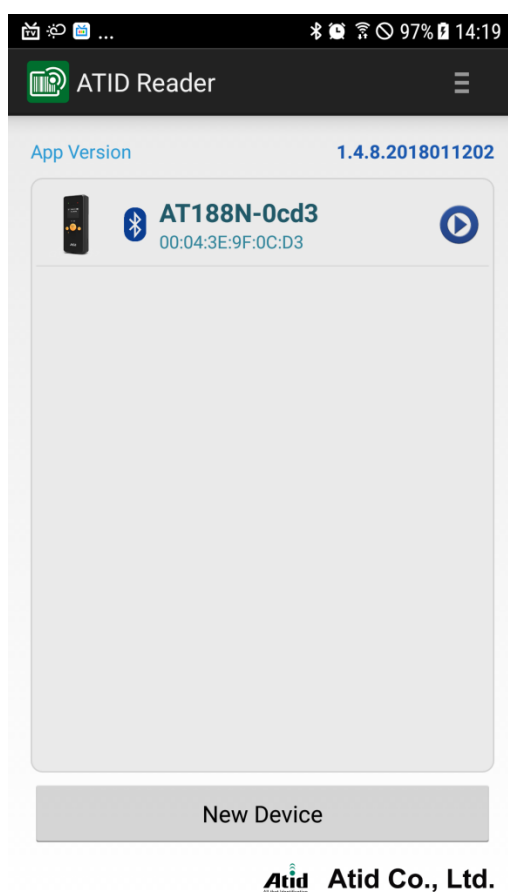
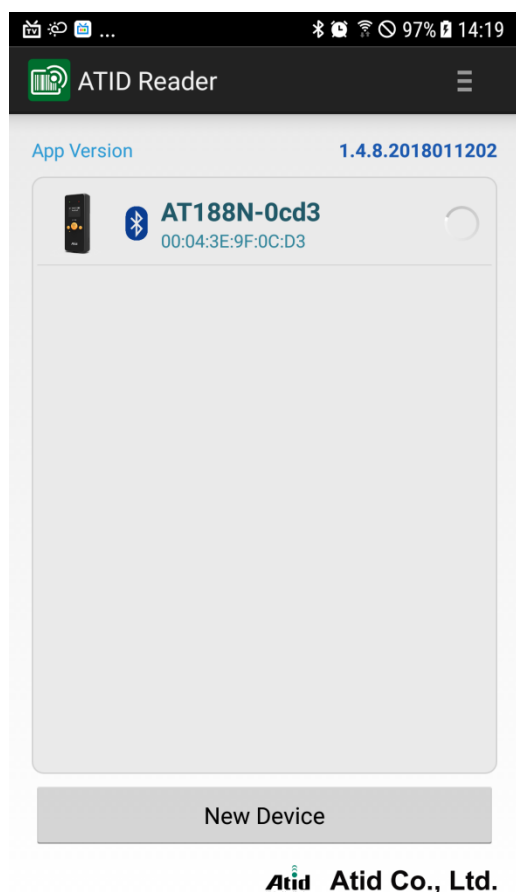
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If the device is being connected for with Bluetooth for the first time, the dialog box requesting for pairing pops up.


Press "OK" to proceed. While the device is being connected, the right button of the device under connection progress will change to "Progress" on the equipment list.

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When the connection is completed, the color of the right button for the connected device will change from red to blue on the device list.



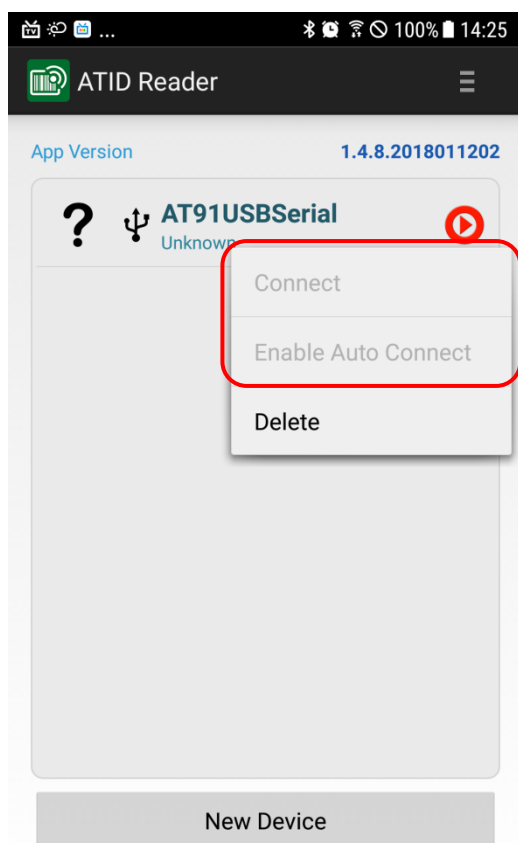
The connection state can be notified with the color of the right button on the device list.
When the connection fails, the button becomes red, which means the connection is incomplete.

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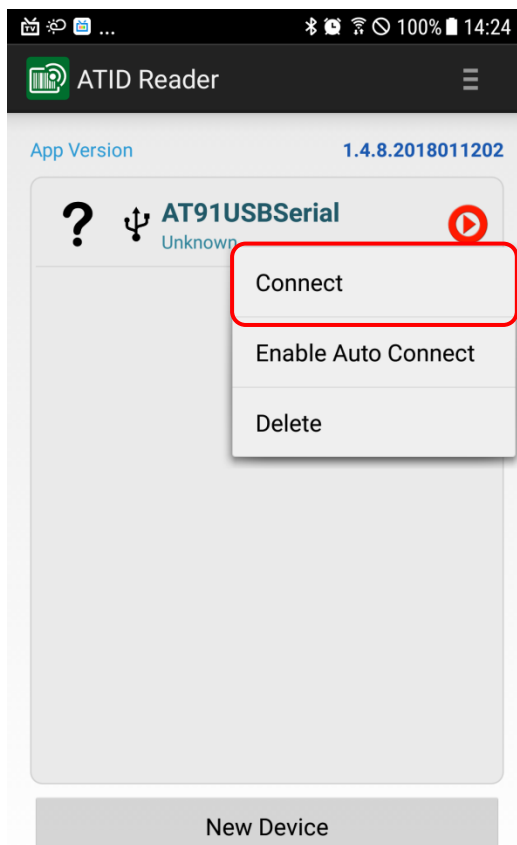
2.3.2. How to connect devices for USB

Just plugging the USB device does not connect it.

Touch the right button of the device you want to connect from the device management list, and touch the "Connect" menu from the pop-up menu that appears, just like the picture below.



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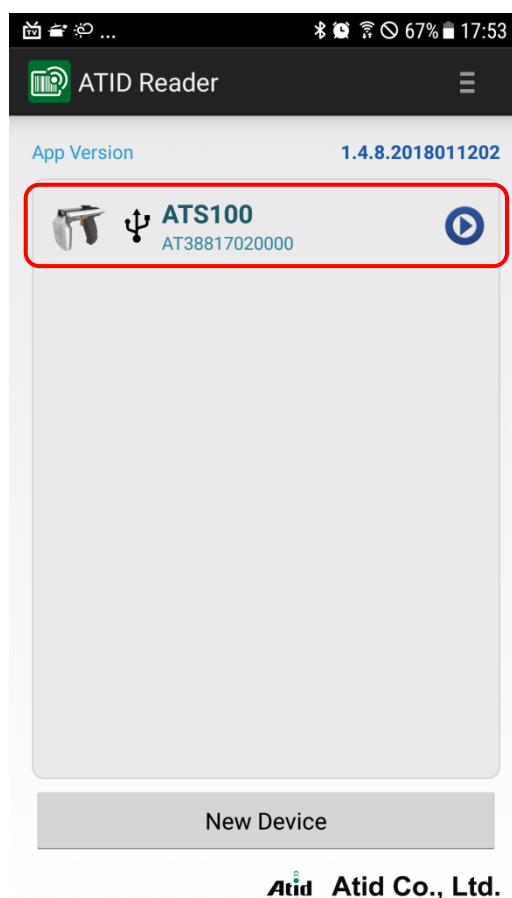
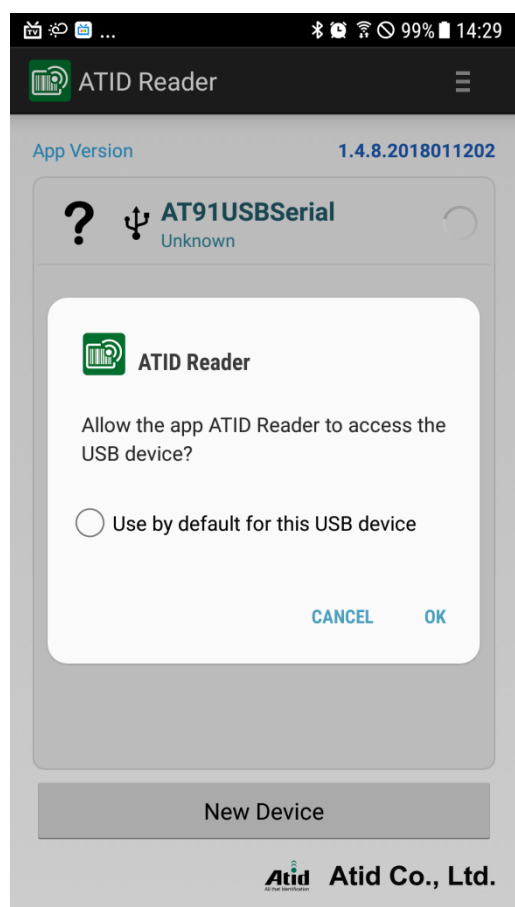
When USB is not connected to the smart phone, the "Connect" button and the "Enable Auto Connect" button get inactivated.

If you are connecting with USB cable for the first time, a dialog box requesting USB Access will show up. Touch onto "OK" to proceed.

While the device is being connected, the right button of the device under connection progress will change to "Progress" on the equipment list.

When the connection is completed, the color of the right button for the connected device will change from red to blue on the equipment list.

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When the equipment is first connected, a dialog box pops up to ask whether you would approve of USB connection.

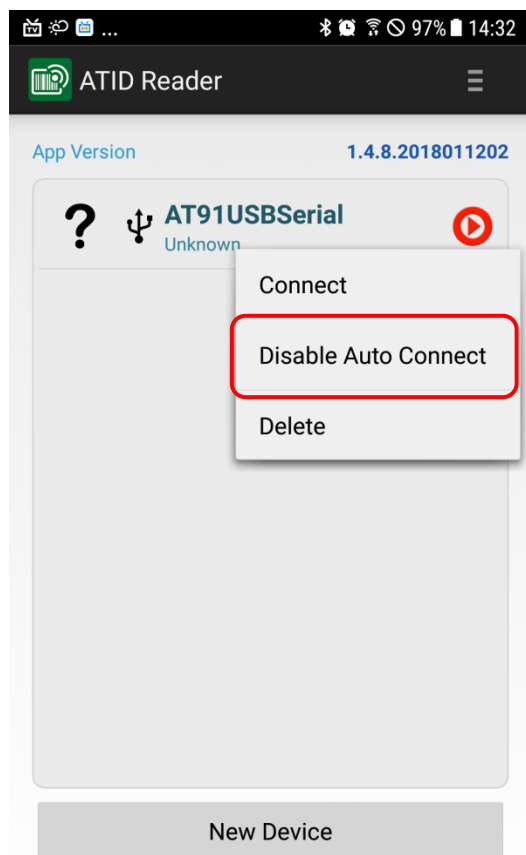
Touch "OK" to proceed.

When the USB connection is completed, the equipment name and the Serial Number are shown.

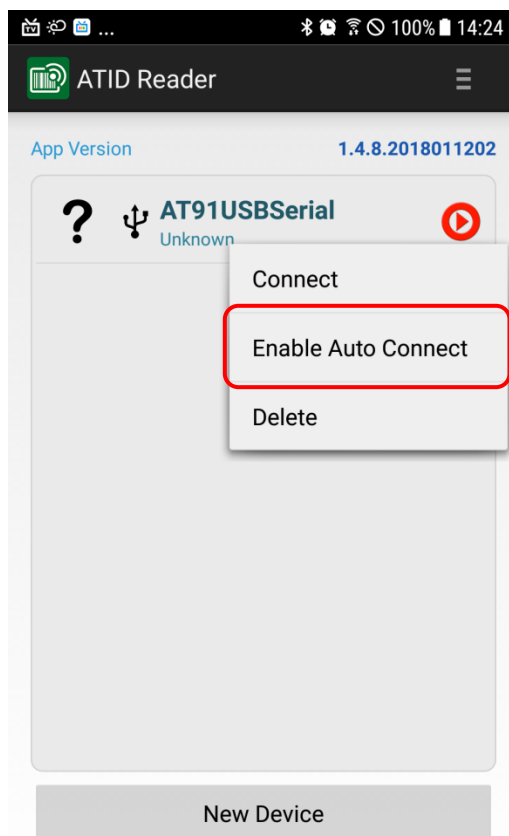
You can identify the connection state with the color of the right button on the equipment list.

When the connection fails, the button is shown red, which means it is not connected.

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Select if you want to enable automatic device connection upon USB connection. .

If "Disable auto Connect" is selected, USB cable connection does not automatically trigger the connection of the device.

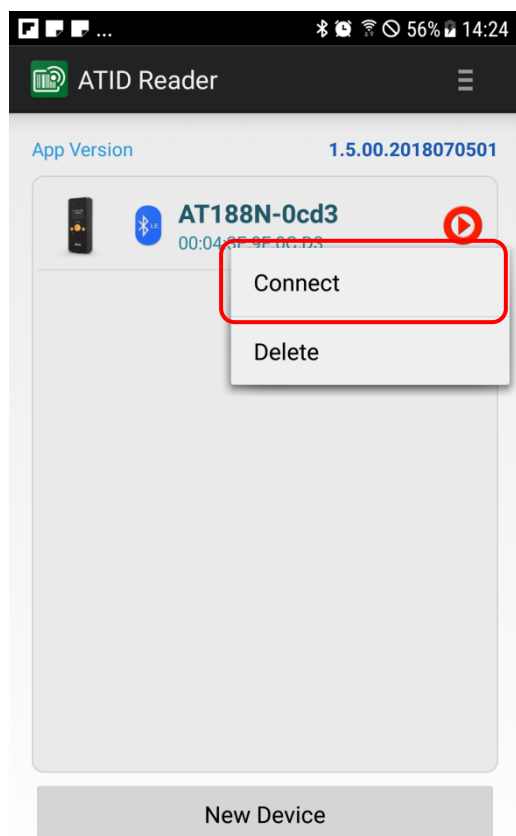
If "Disable auto Connect" is selected, USB cable connection automatically triggers the connection of the device.

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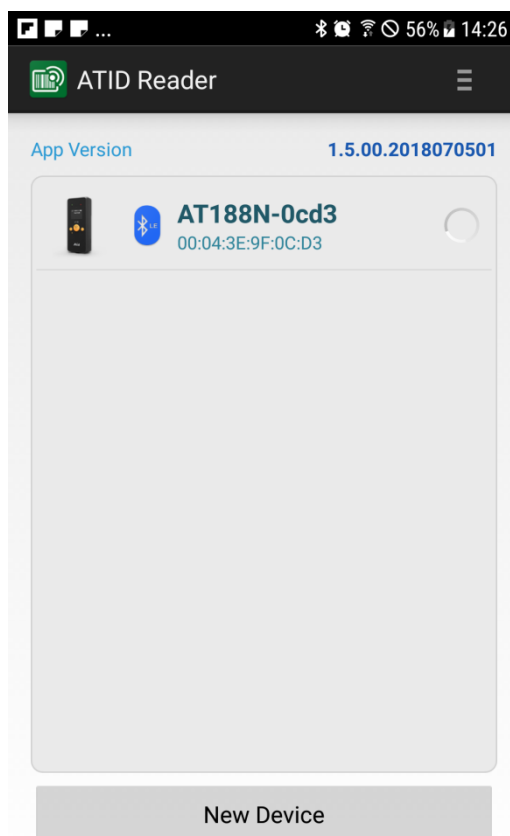
2.3.3. How to connect devices for BLE

Connecting the device is similar to removing the device.

On the device list, press the right button of the device that you are trying to connect, and then touch on the appearing "Connect" button. Refer to the following picture.




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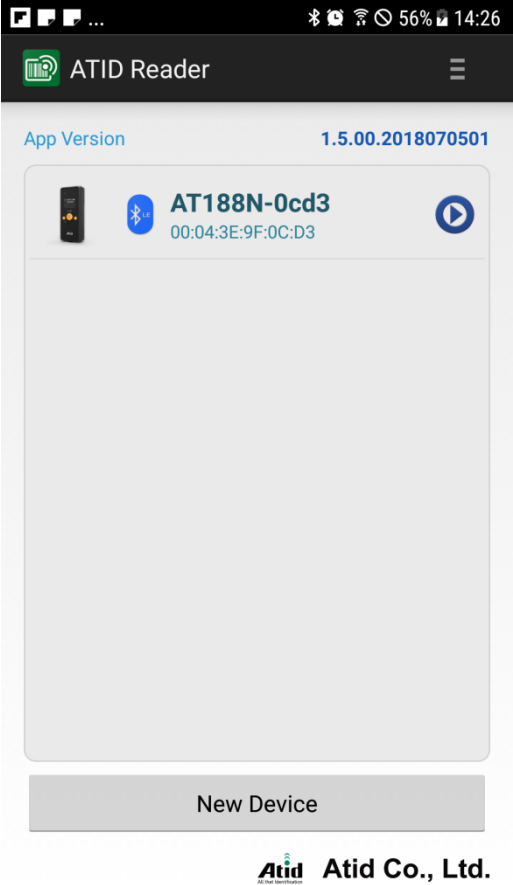


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While the device is being connected, the right button of the device under connection progress will change to "Progress" on the equipment list.

When the connection is completed, the color of the right button for the connected device will change from red to blue on the device list.

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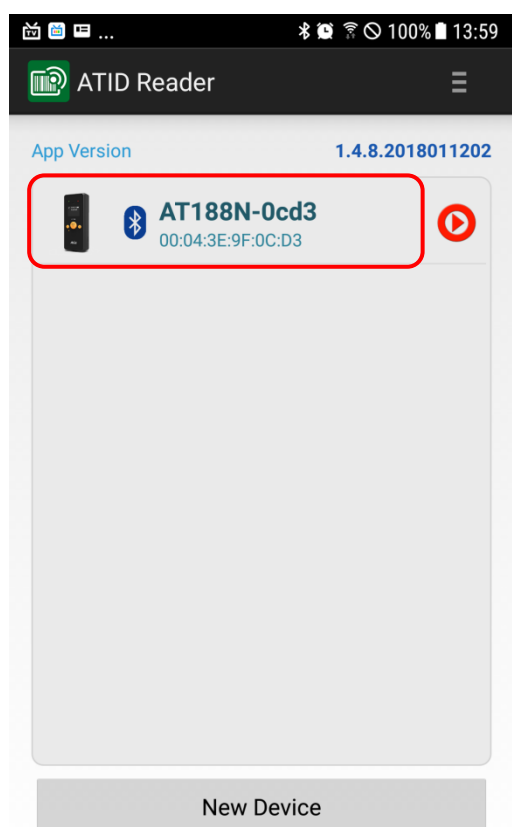
The connection state can be notified with the color of the right button on the device list.
When the connection fails, the button becomes red, which means the connection is incomplete.

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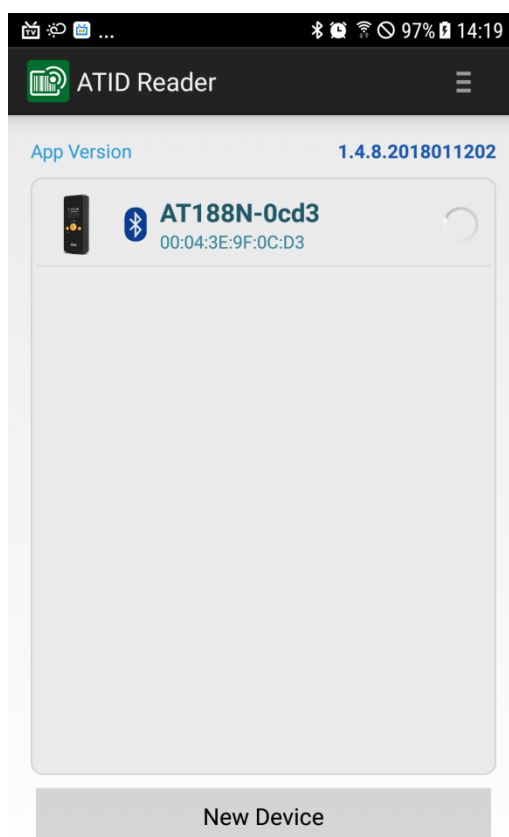
2.3.4. How to connect your device and go to the demo screen

To move directly to the demo screen upon device connection, you have to press on the device you are about to connect, on the device list.

If it is unconnected, try connecting the device first to after which demo screen automatically comes up, like the picture below.




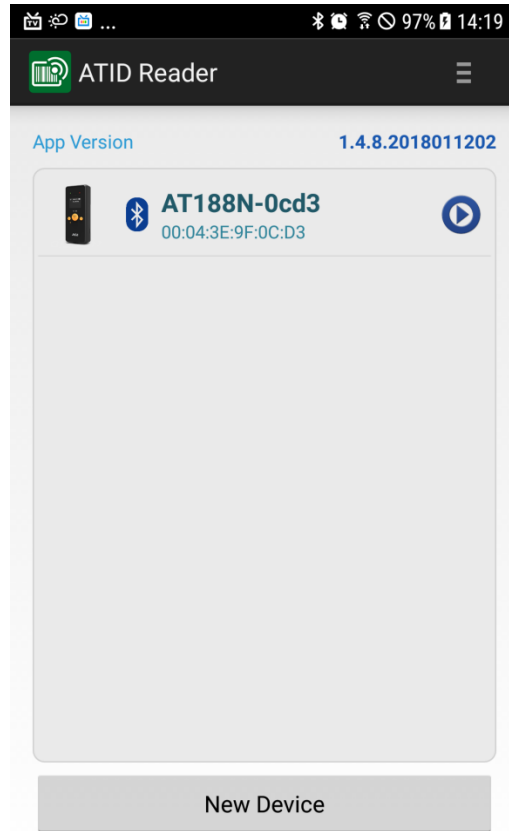
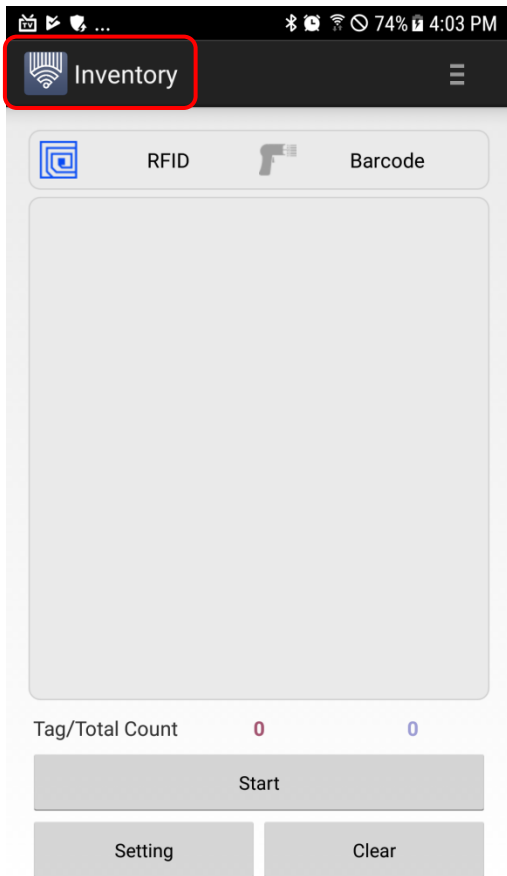
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If the device is already connected, press on the connected device to move on to the demo screen. The following picture is how demo screen looks.

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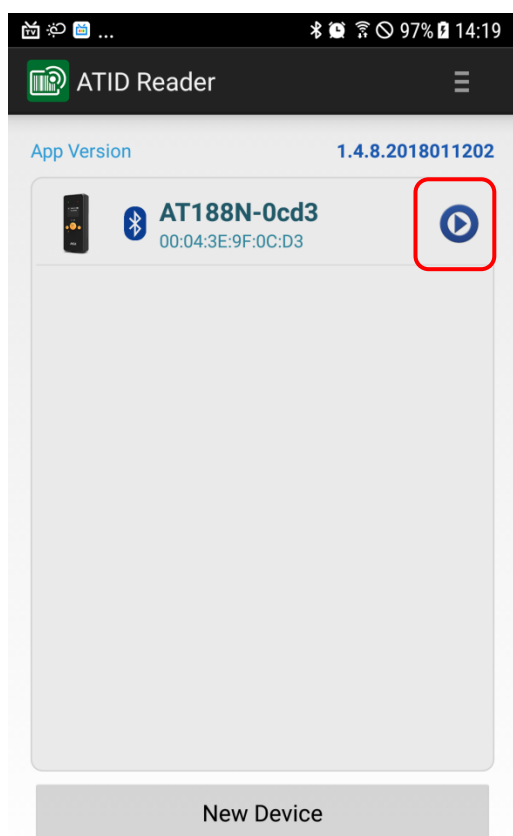
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On the demo screen, you can press the "Back" button, or the title shown at the upper screen or icon to go back to the device list.

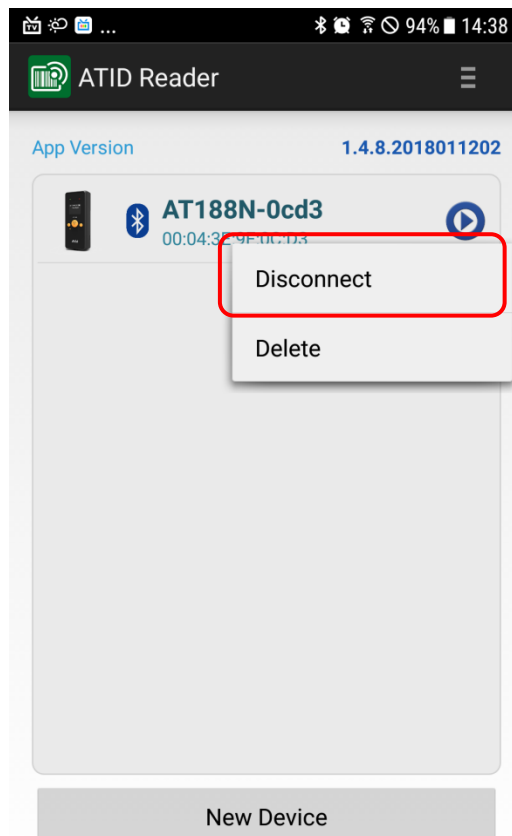
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2.4. Disconnect Device

When you are to disconnect the device, press the right button of the connected device like the picture below.



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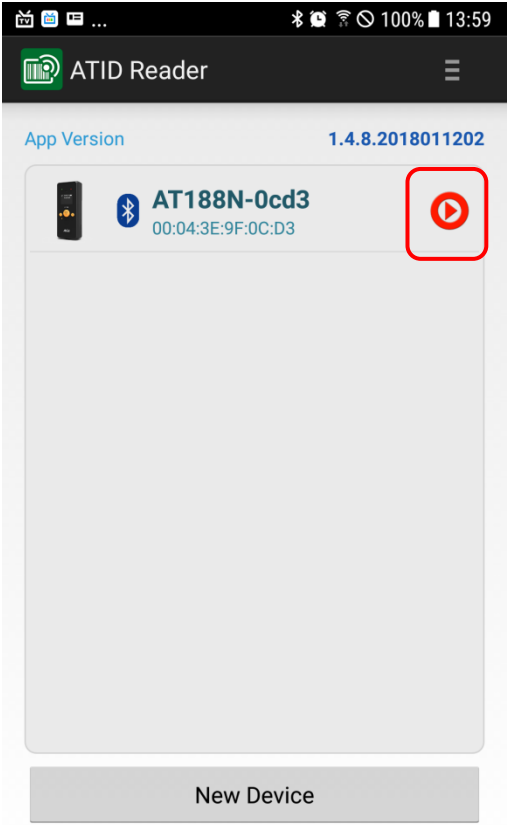
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There is a "Disconnect" button popped up for connected devices.

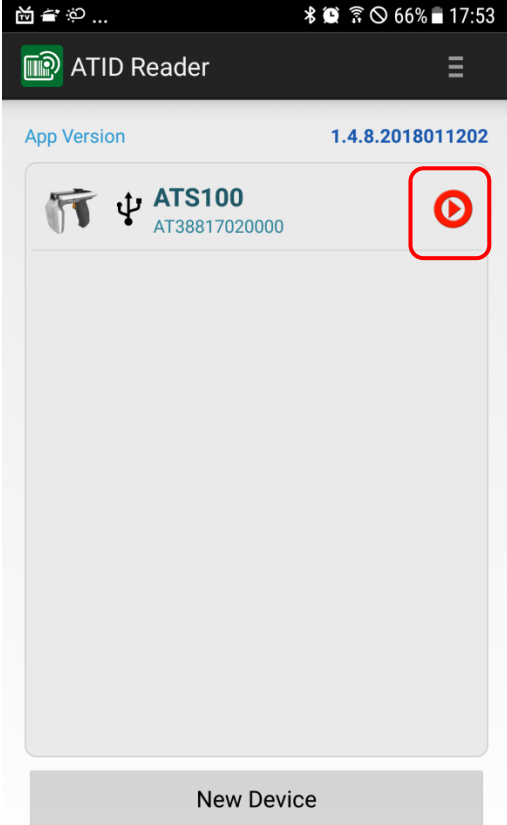
If you touch on the "Disconnect" button the device disconnected, the blue button will turn red.

The picture below shows the connection between the app and the device.

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There appears a "Disconnect" menu in the connected device.

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2.5. How to charging the phone for USB

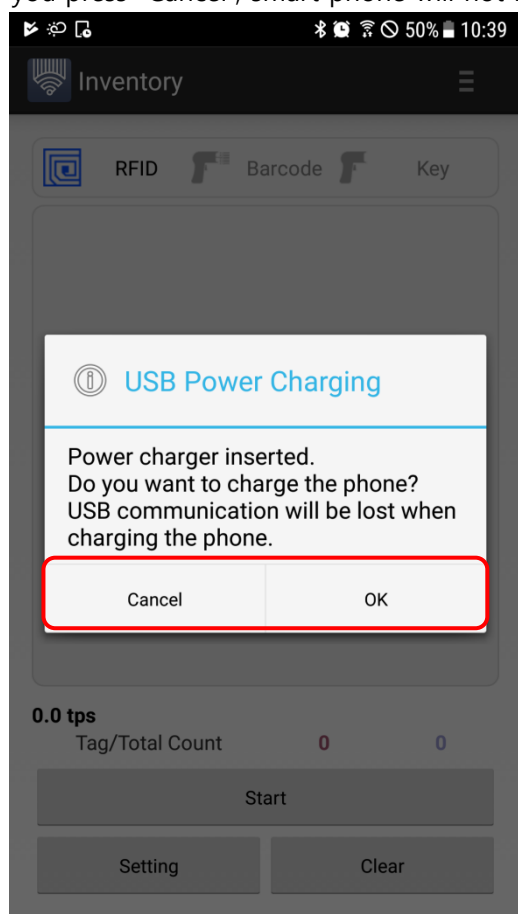
This is the function to set whether to charge the smart phone when the power cable is connected to the device.

※ This function is supported only on ATS100.

If you connect the charge cable to the device while the smart phone and the device are connected via USB, a screen for asking whether to charge or not will appear.

Smart phone begins to charge if you press "OK". Yet, when charging begins, USB connection to the smartphone is terminated.

If you press "Cancel", smart phone will not be charged, and USB connection will be maintained.





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3. Demo

Select the connected device from the device list screen to go to the demo screen.


If the AT188N, AT388, or ATS100 device is not connected to the host program (stand-alone mode), the RFID tag and barcode read by the device are stored in the device's internal memory.

When it is connected with the host program, it operates in align with the host program and processes the read RFID tag/barcode data according to the setting of the host program.

When connected to the device, the ATID READER Demo consists of 4 demo screens.

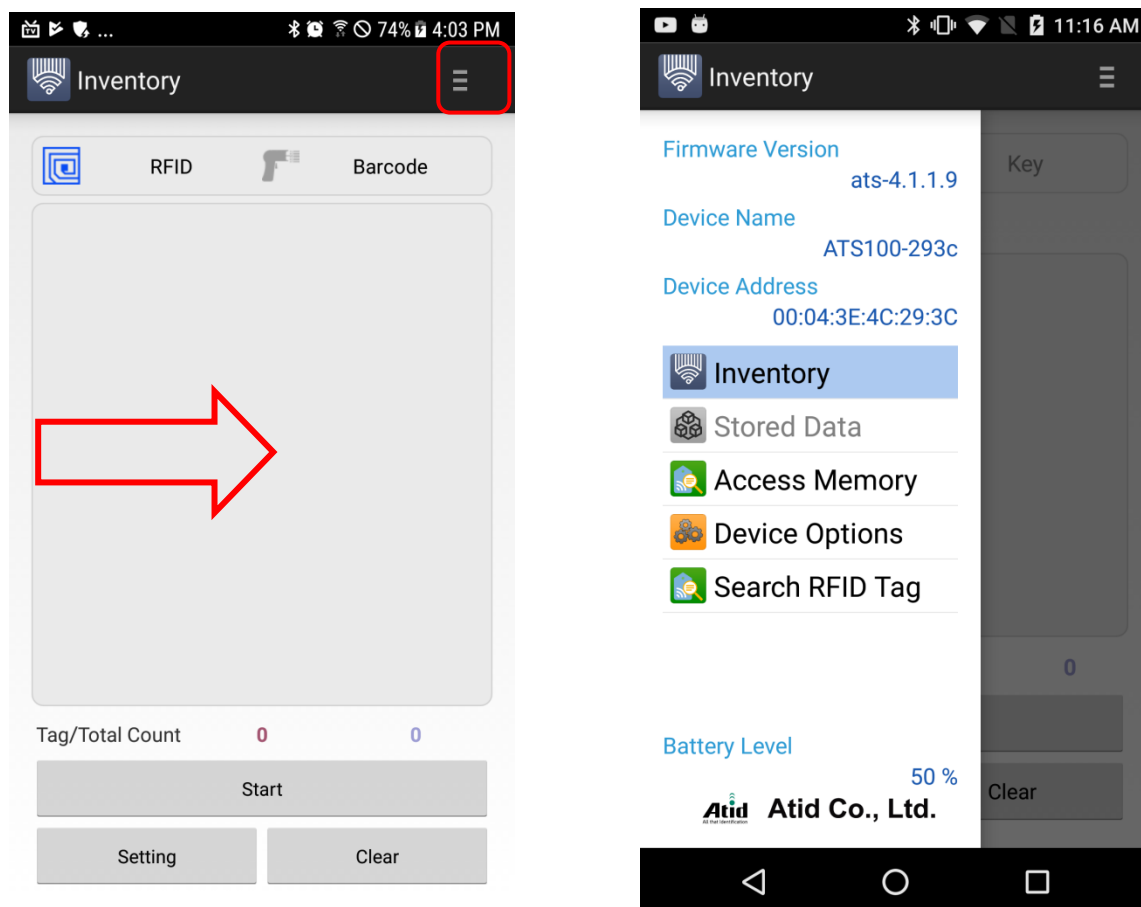
If you go to the demo screen after initial connection, you will go to the Inventory RFID & Barcode Demo screen by default.

It is composed of Stored Data Demo screen that reads and displays the data stored in the device, Access Demo for "Read, Write and Lock Memory" at UHF RFID function, and Device Option Demo that sets the device options.

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3.1. Demo Menu


You can see the demo menu appear by touching the menu button on the upper right side of the demo screen or swiping the screen from left to right as shown in the following figure.



The demo menu displays the firmware version of the connected device, the name of the connected device, and the address of the device.

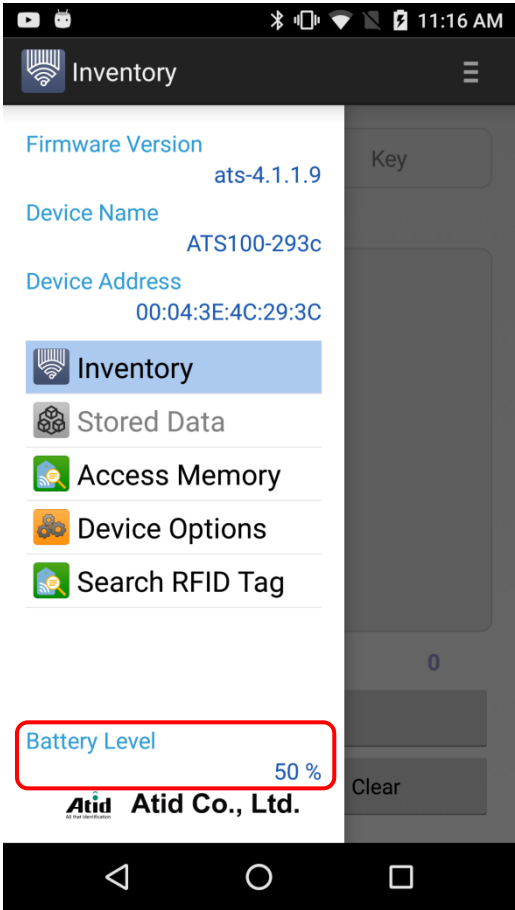
In addition, you can select Inventory, Stored Data, Access Memory, and Device Option. If you select menu, you can move to the selected demo screen.


※ Stored data is not supported by ATS100 and ATD100.

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3.1.1.1. Battery Level

This part displays the battery level of device.



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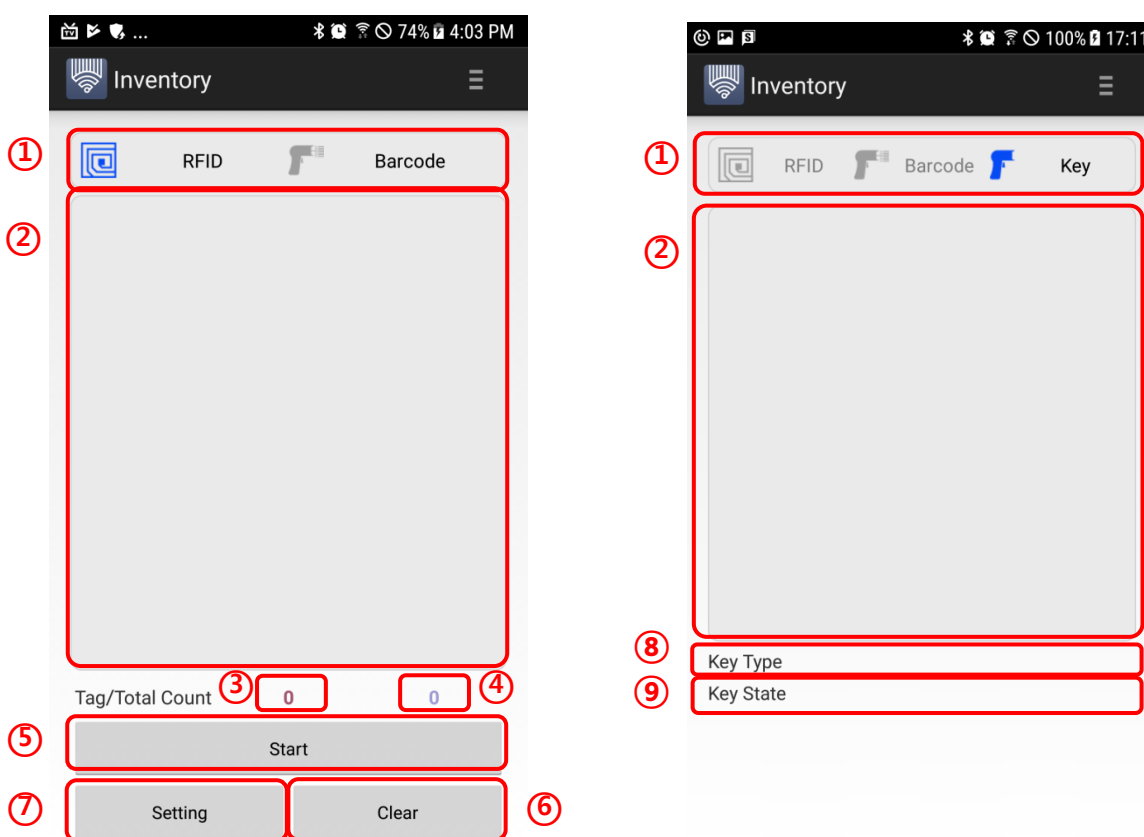
3.2. Inventory

Inventory Demo can be seen using RFID (UHF), barcode reader, and Key Event Reading.


※ Key Event Reading is only supported by ATS100

3.2.1. Screen Composition

Screen composition of Inventory demo screen is as follows.



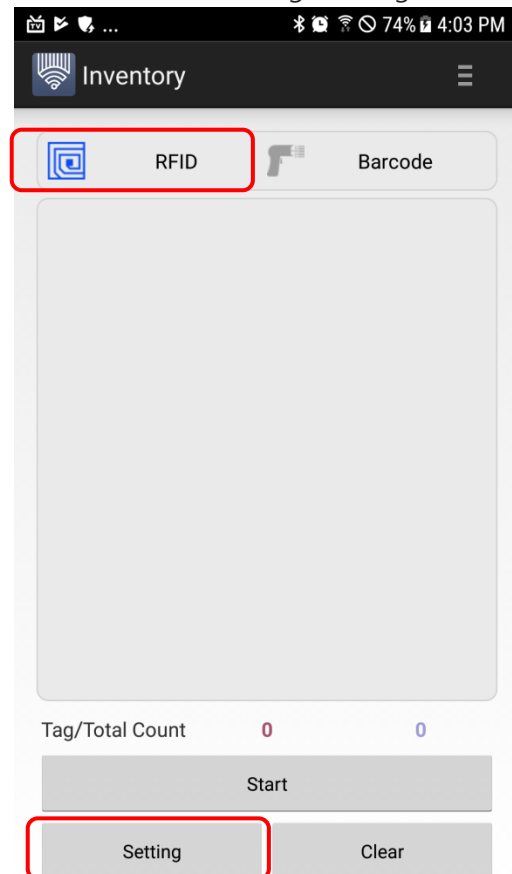
- ① **Operation Mode** :You can set and indicate the current device as RFID Reading, Barcode Reading, or Key Even Mode. If the device does not support, it will not be activated.
- ② **Data List** :Displays RFID tag, barcode, and Key data read from the device.
- ③ **Data Count** :Shows the number of Tag read from Data List
- ④ **Total Read Count** :Shows the number of data read from the entire device.
- ⑤ **Start** :Inventory is started in RFID reading mode and barcode decoding is started in barcode reading mode. After initiation, it changes to Stop button.
- ⑥ **Clear** :All data in Data list gets removed and each count values are reset.
- ⑦ **Setting** :Go to the screen to set RFID or Barcode Option.

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- ⑧ **Key Type : Shows the Key type**
- ⑨ **Key State :**Shows the Up/Down state of Key

3.2.2. How to change RFID options

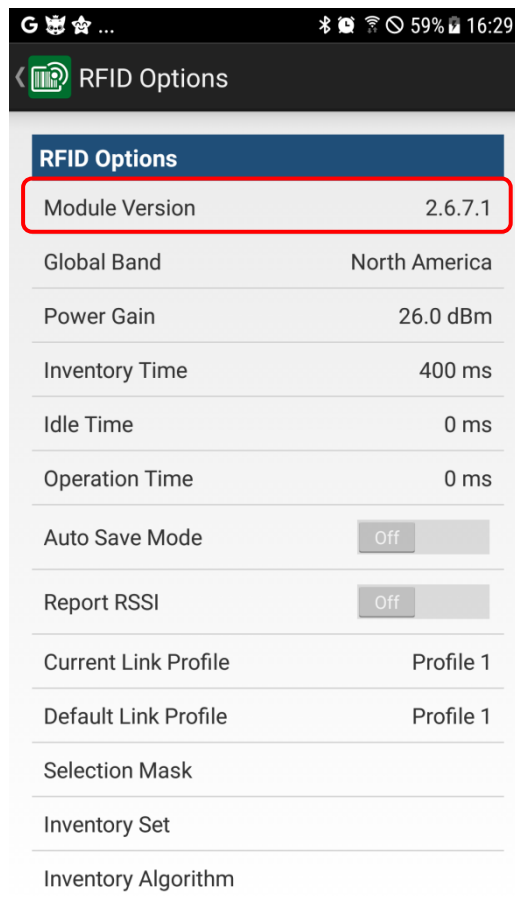
The RFID Option provides an environment to manage settings for RFID UHF modules.




After selecting Operation Mode as RFID, touch the Setting button and the RFID Option menu will be displayed.

3.2.2.1. Module Version

This shows the Version of RFID UHF module.



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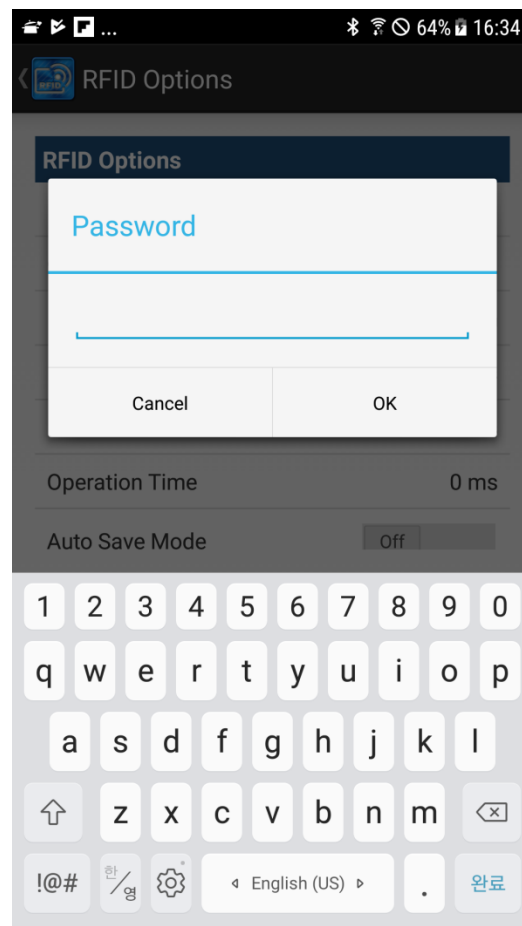
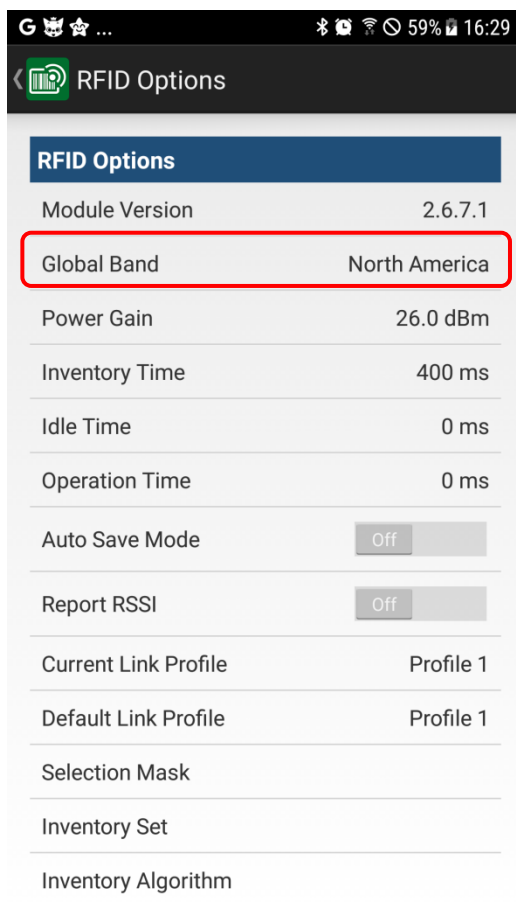
3.2.2.2. Global Band


With Global Band, you can display and change the country setting information set in the RFID UHF module.

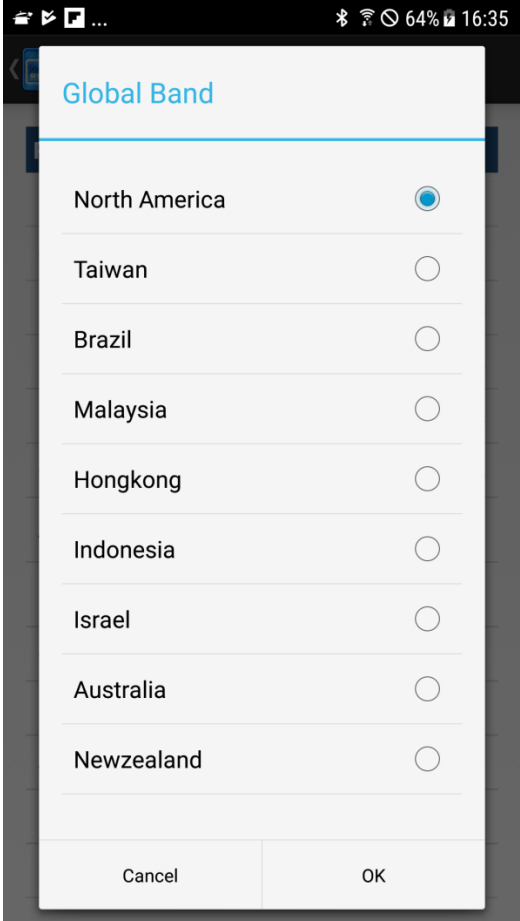
Touch the Global Band section in the Option window to display the dialog box for entering the password.

Enter Password and touch "OK" button to display dialog box to set the country

Select the country and touch the "OK" button to change the country setting



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In the Global Band dialog box, you can drag the displayed value by dragging it with your finger.

After changing the country setting, the device (AT188N etc.) will reboot and the application will be disconnected.

Touch the "Cancel" button to return to the Option screen without setting the country.

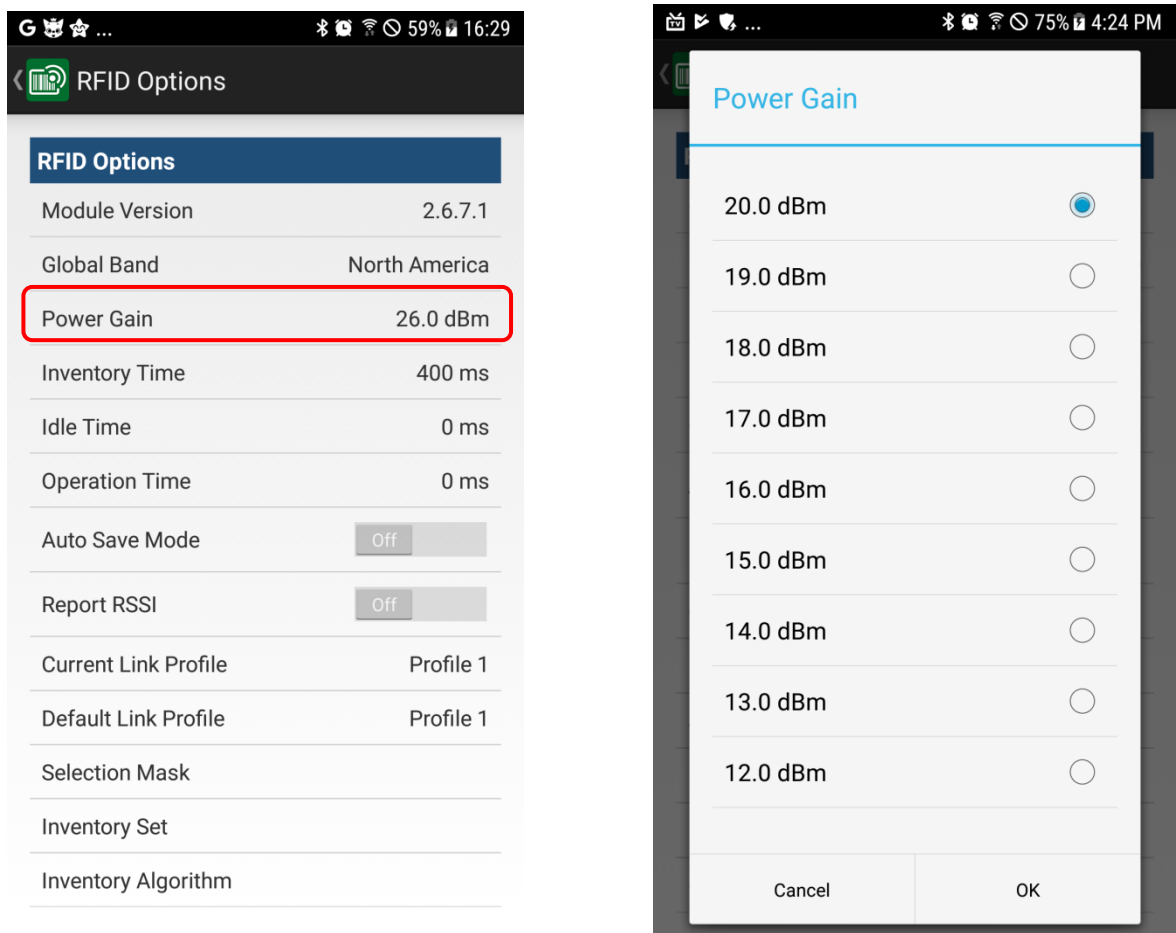
Country setting cannot be changed if the country of the global band is as follows:

*** Europe , China , Japan , India**


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3.2.2.3. Power Gain

Power Gain allows you to configure the output of the RFID antenna when performing the Inventory. If you touch the value of Power Gain in the Option screen, a dialog box for setting the Power Gain appears. Select the desired value and touch the "OK" button to set the Power Gain value.

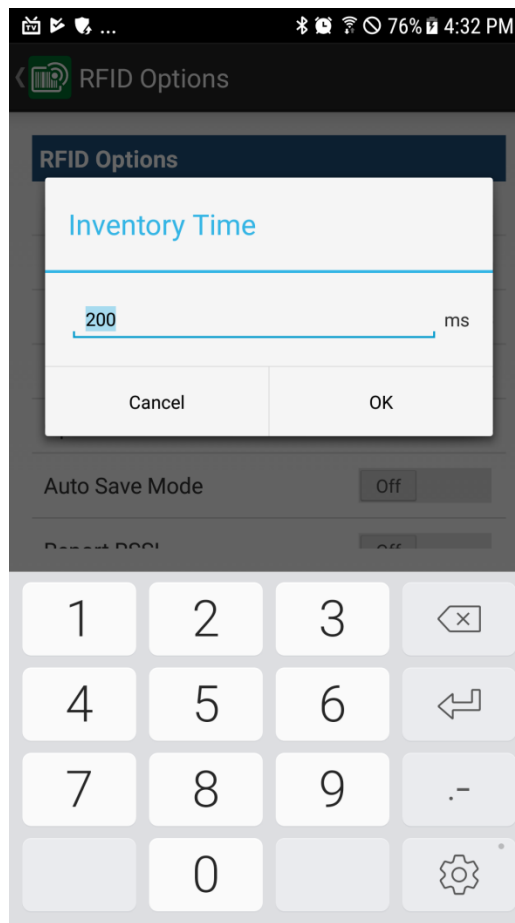
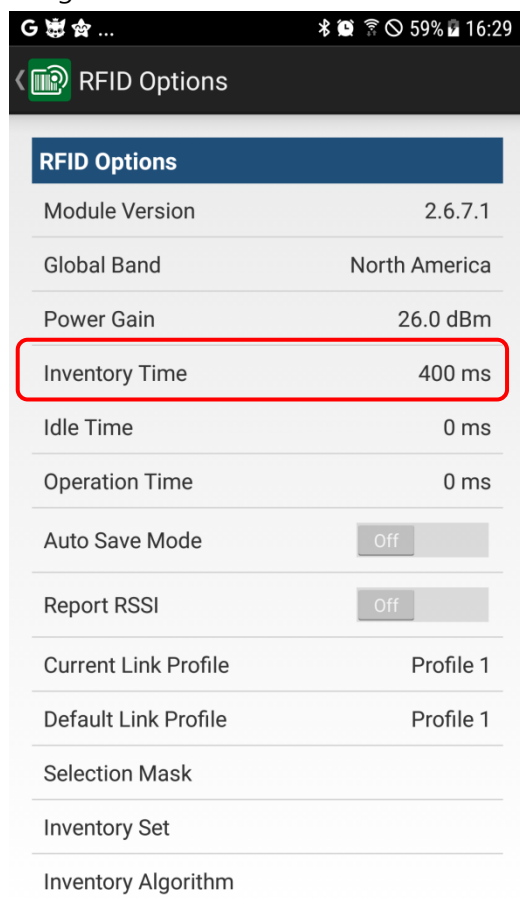


The values can be scrolled by dragging with your finger from the Power Gain dialog box. If you touch the "Cancel" button, you can go back to option screen without setting the power gain value.

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3.2.2.4. Inventory Time

With Inventory Time, you can set the time for antenna transmittance among RFID UHF Inventory Round. Setting unit is ms.




Inventory Round time cannot go over 400ms.

Inventory Round time includes sending radio waves with the antenna and idle time.

You can set the time to send radio waves using Inventory Time, and the resting time using Idle Time.

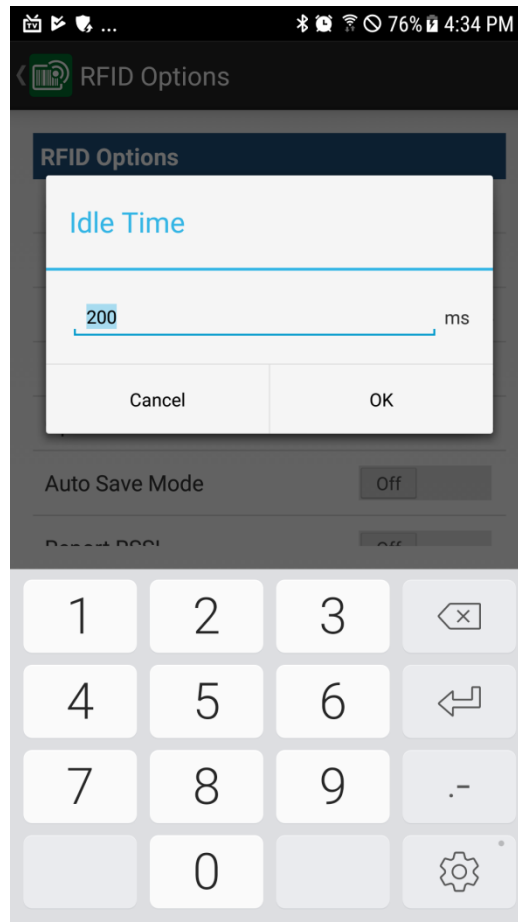
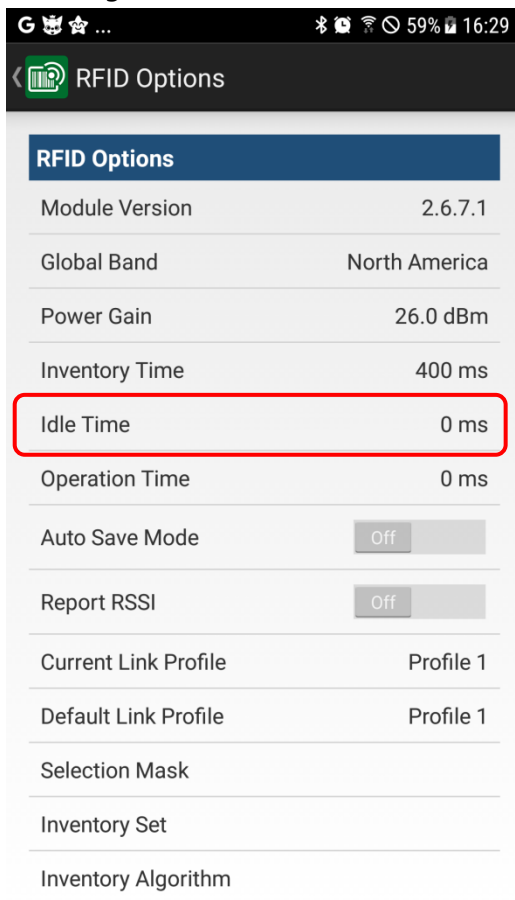
Inventory Time and Idle Time cannot go over 400ms together.

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3.2.2.5. Idle Time

Idle Time sets the resting time among RFID UHF inventory round time, during which the antenna does not propagate.

The setting unit is ms



As explained at Time section before, Idle Time and Inventory Time cannot be set more than 400 ms together.

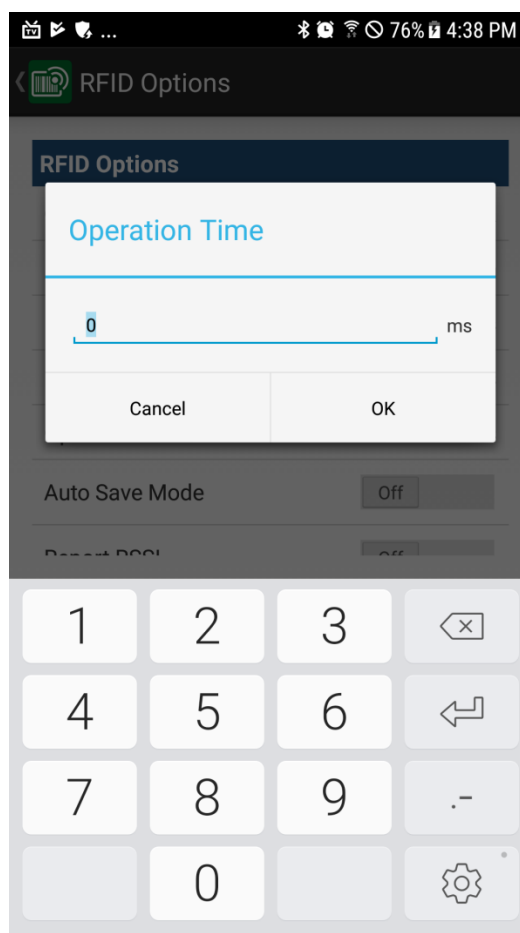
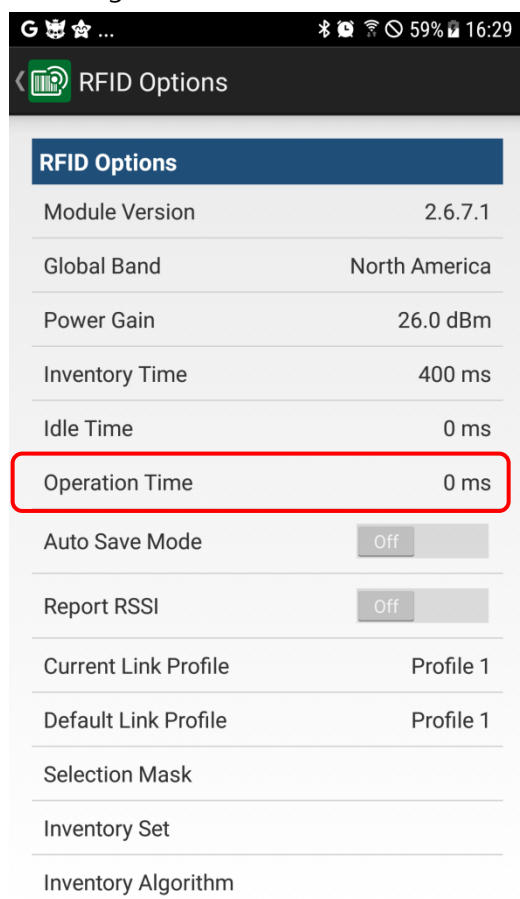
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3.2.2.6. Operation Time

You can set Inventory operation time with Operation Time option.

If the Operation Time option is set to 0, Inventory will perform an action until the job is stopped indefinitely.

The setting unit is ms.




If you touch values on Operation Time, the dialog box to time set for Operation Time comes up.

If you input values and press "OK", operation time is set.

If you press "Cancel" button, you can go back without setting operation time.

If a value other than 0 is entered for the Operation Time option, the Inventory operation will continue for a set period of time and will automatically stop.

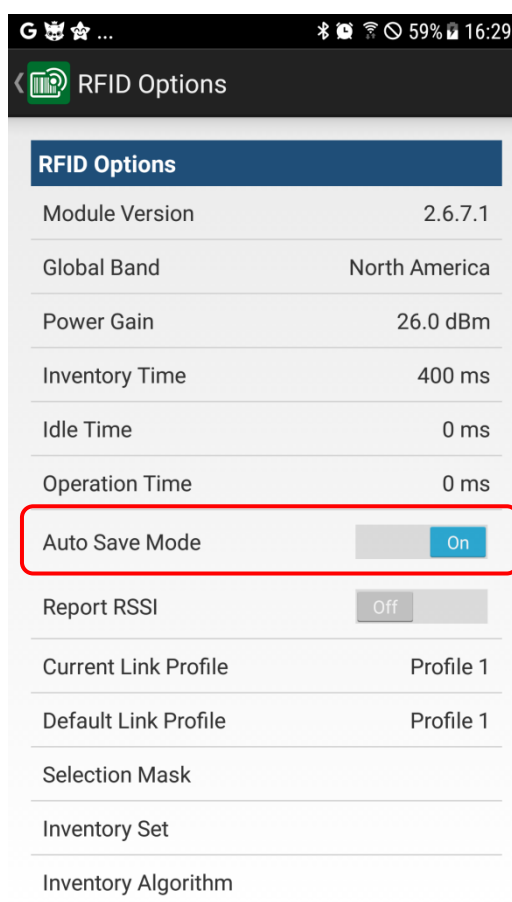
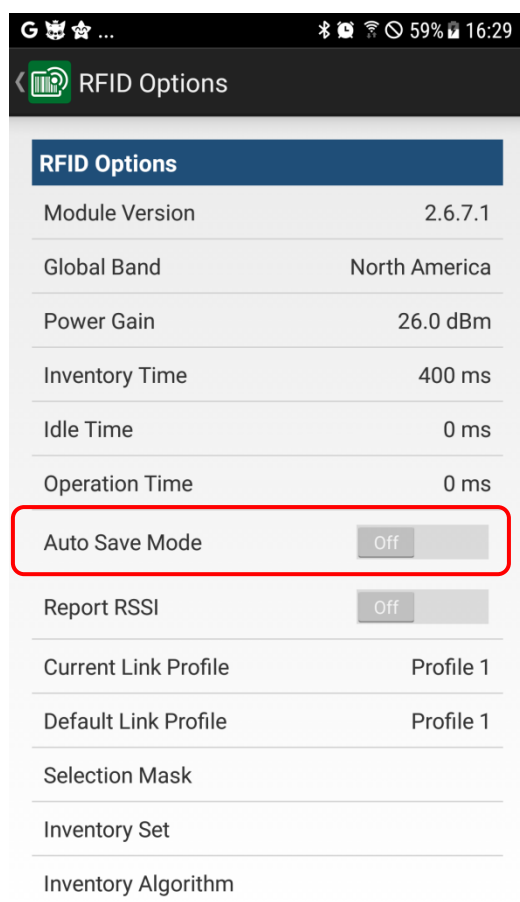
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3.2.2.7. Auto Save Mode

The Auto Save Mode option allows you to choose whether to store the imported tag data or barcode in the internal memory of the device.

Auto Save Mode is only active when the device is connected to the demo and it is not effective when the device is not connected to the demo.

Auto Save Mode option will further be explained in Stored Data screen.

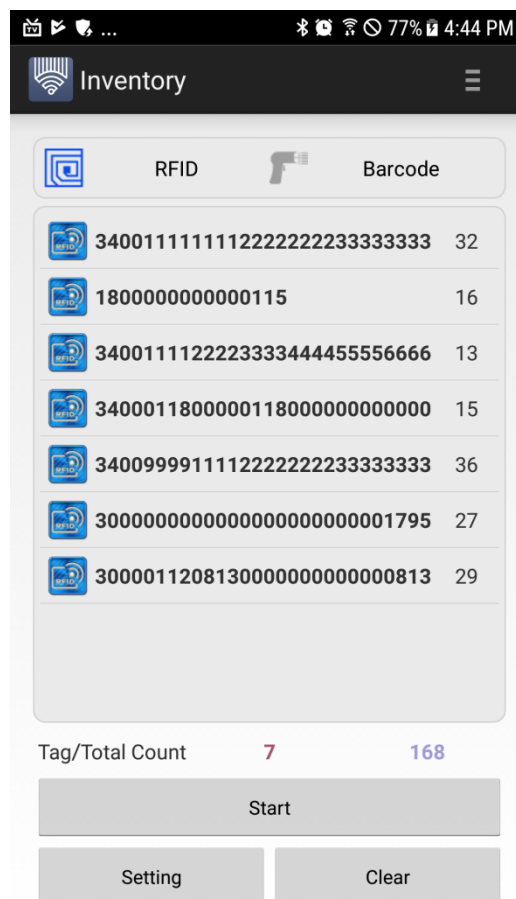
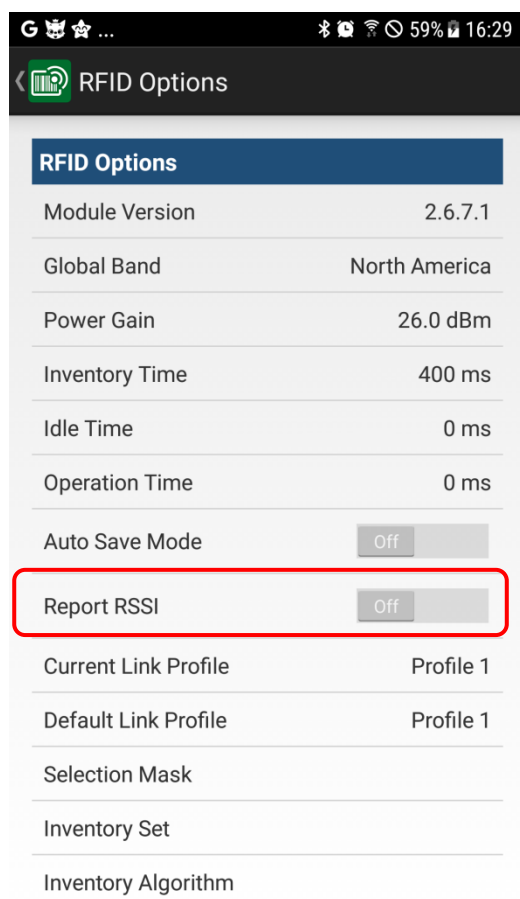



Inventory data is saved to the device while Auto Save Mode is turned on.

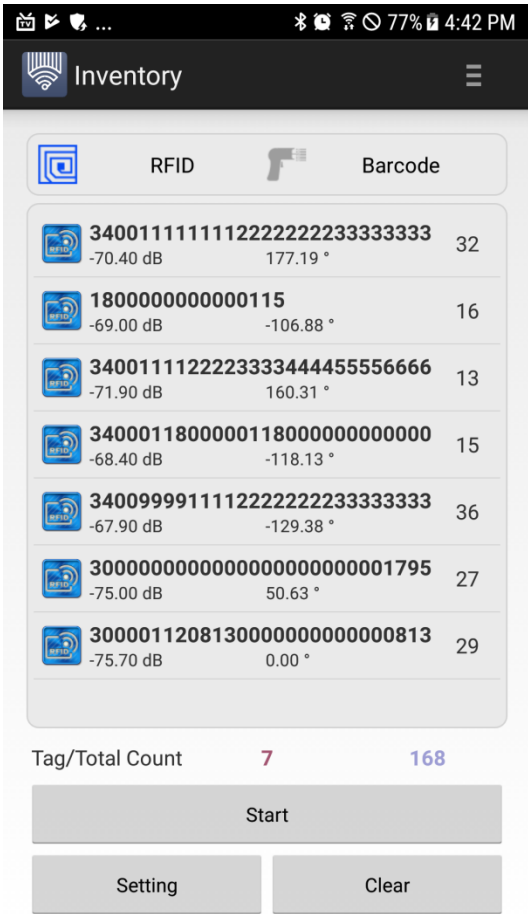
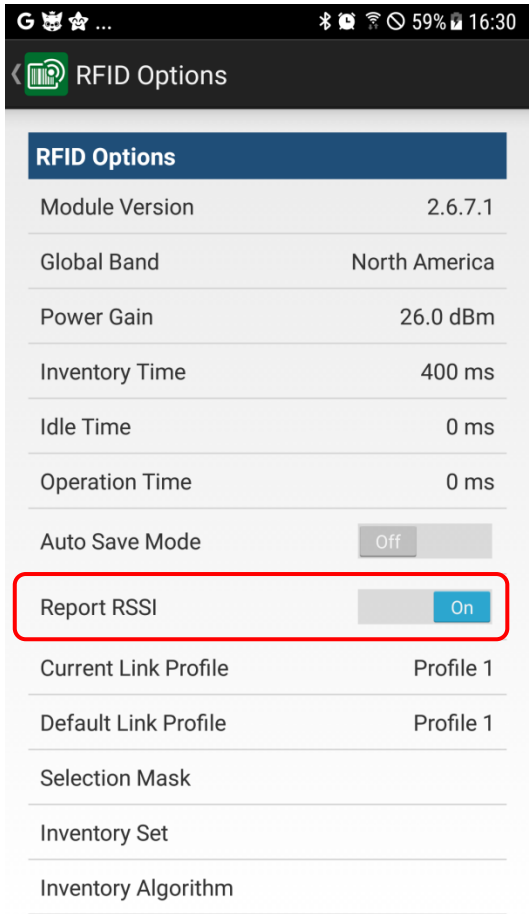
※ This function is not support in ATS100 and ATD100.

3.2.2.8. Report RSSI


The Report RSSI option can be set to bring RSSI and Phase values in addition to RFID tag values when performing Inventory.



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The RSSI value indicates the signal strength right when the device detects the tag during inventory performance. "Phase" represents phase on frequency right when the instrument detects the tag. Tag location can be more deeply detected using RSSI and Phase. Since the location tracking technology of tags does not meet the purpose of this document, only the fact that there is a feature that provides tag location tracking information will be mentioned here.

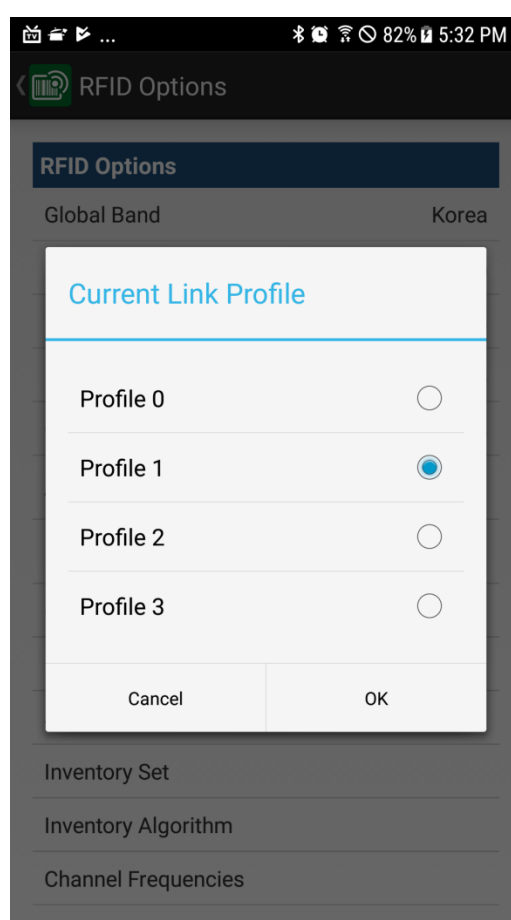
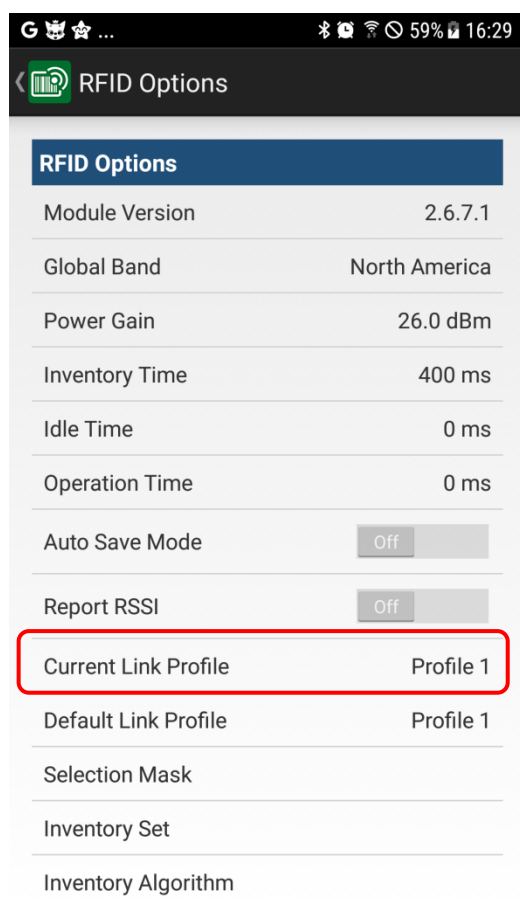
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3.2.2.9. Current Link Profile


Link Profile is an option to set Air interface of RFID UHF.

Link Profile can be set from 0 to 3.

The current link profile is reset to the default value when the power of the device (AT188N, AT388, ATS100) is turned off and then on.



※ AT188N and ATD100 only supports Link Profile 1.

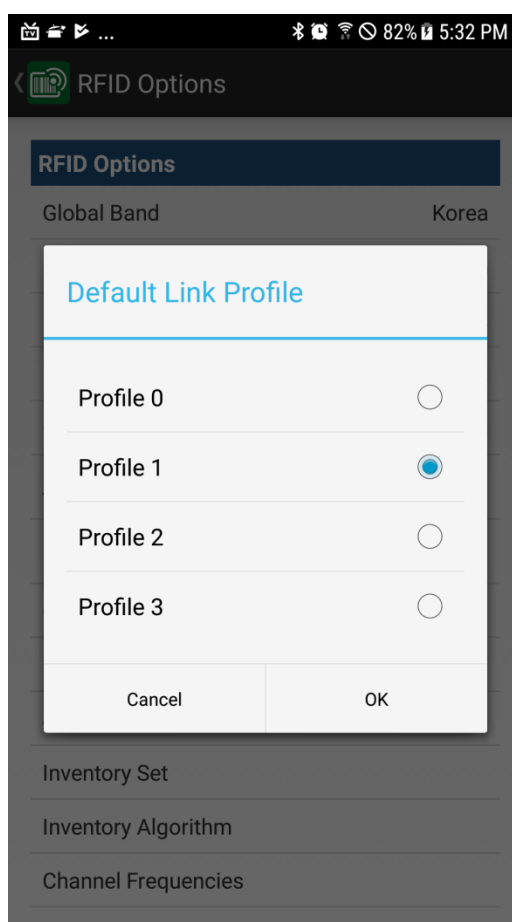
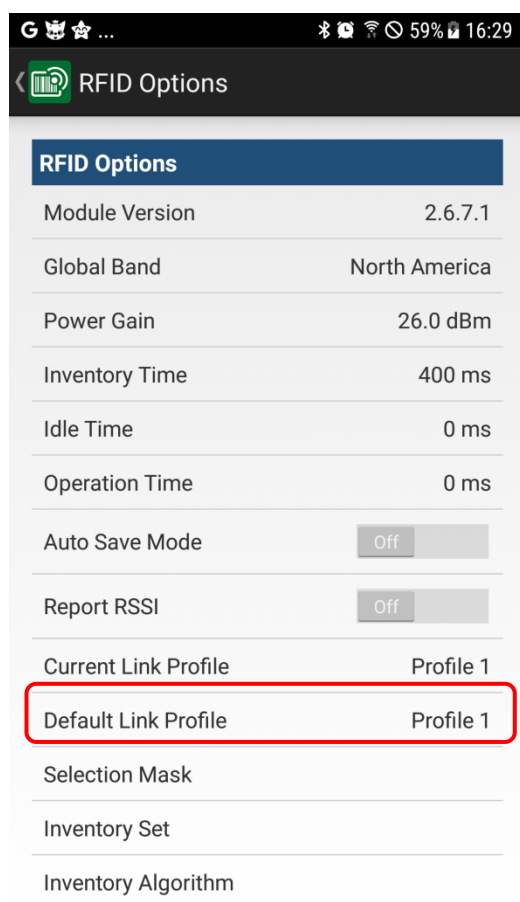
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3.2.2.10. Default Link Profile

Link Profile is an option to set Air interface of RFID UHF.

Link Profile can be set from 0 to 3.


The Default Link Profile will remain unchanged even if the device (AT188N, AT388, ATS100) is turned on and off.

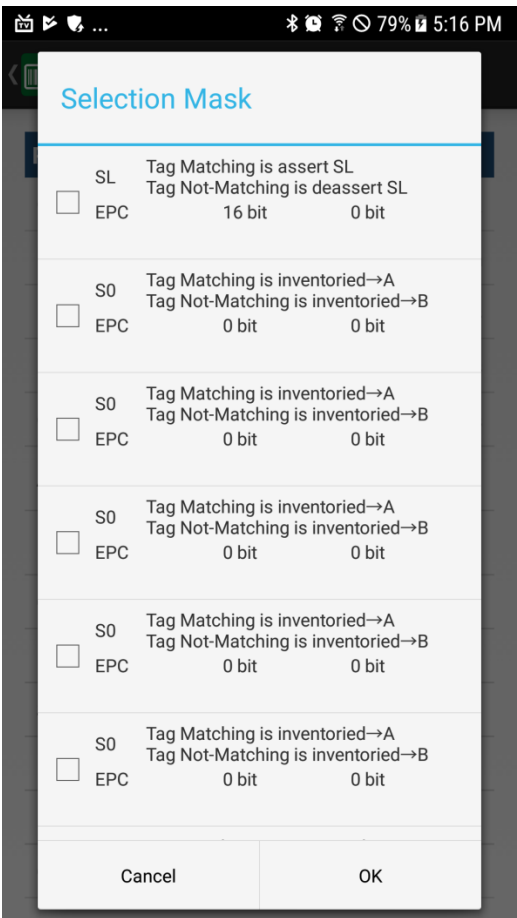
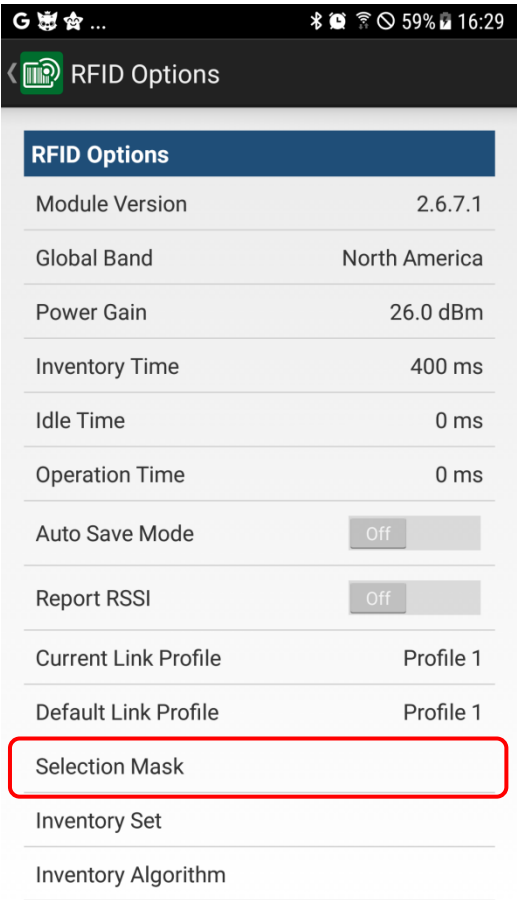


※ In order to apply the Default Link Profile to the device, the power of the equipment should be turned on / off.
The AT188N and ATD100 only support link profile 1. .


3.2.2.11. Selection Mask

Selection Mask setting allows only certain Tag to be activated.

		ATID Reader Demo Guide for Android					
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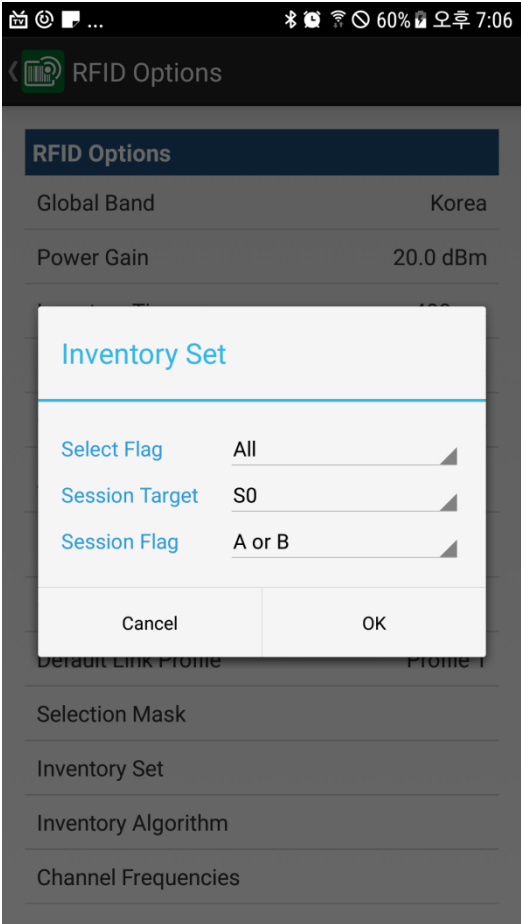
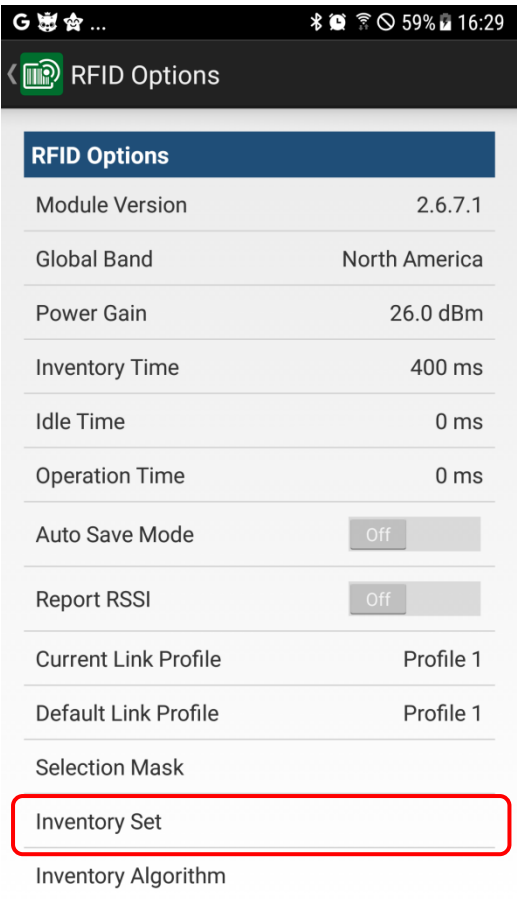



Such content is described more in Clause 3.3, Selection Mask.

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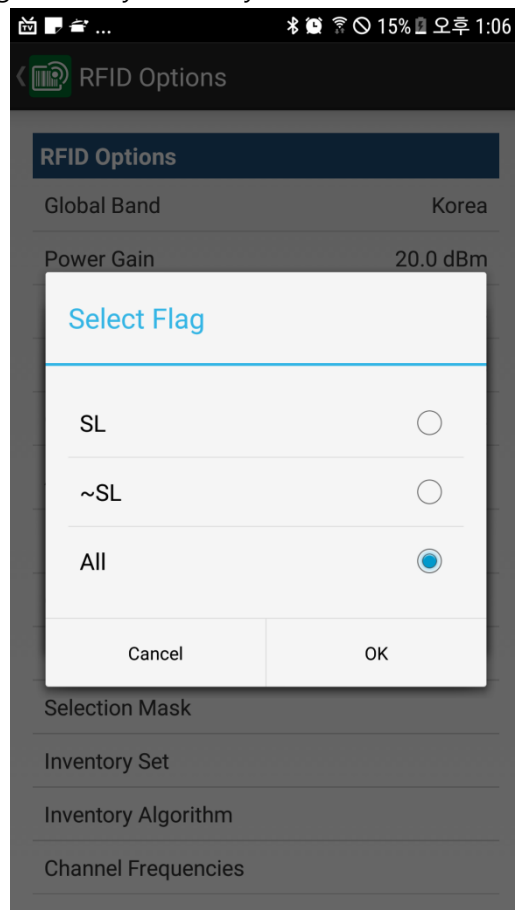
3.2.2.12. Inventory Set

With Inventory Set setting, you can select certain Tag to perform Inventory.




		ATID Reader Demo Guide for Android					
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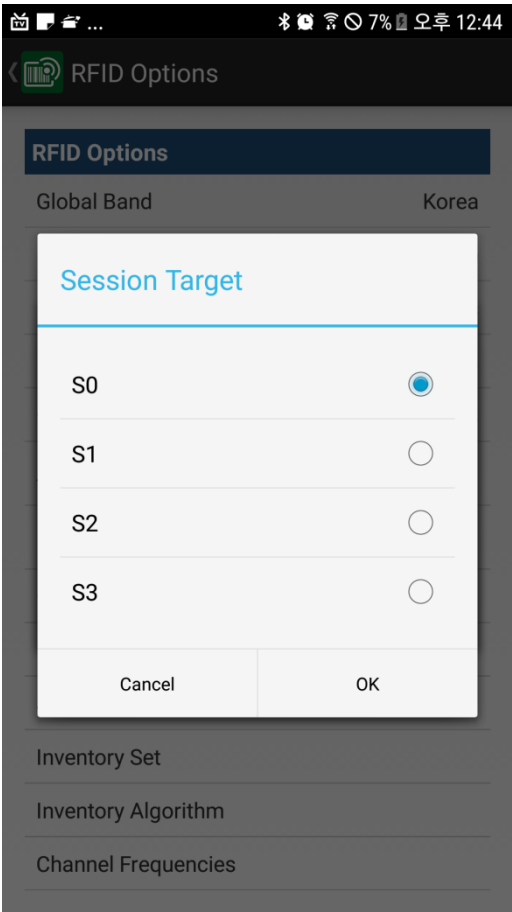
- ① **Select Flag** :Among Inventory list, Put your choice of Select Flag for comparison.



Select Flag	Description	Note
SL	This means that the Select Flag will only inventory the tags that are in the Assert state.	
~SL	This means that the Select Flag will only inventory the tags that are in the Deassert state.	
All	This means that you will be able to inventory tags for all states regardless of the state of the Select Flag.	


- ② **Session Target** :Among Inventory list,This allows you to select the Session Flag, used to compare with Session Flag state.

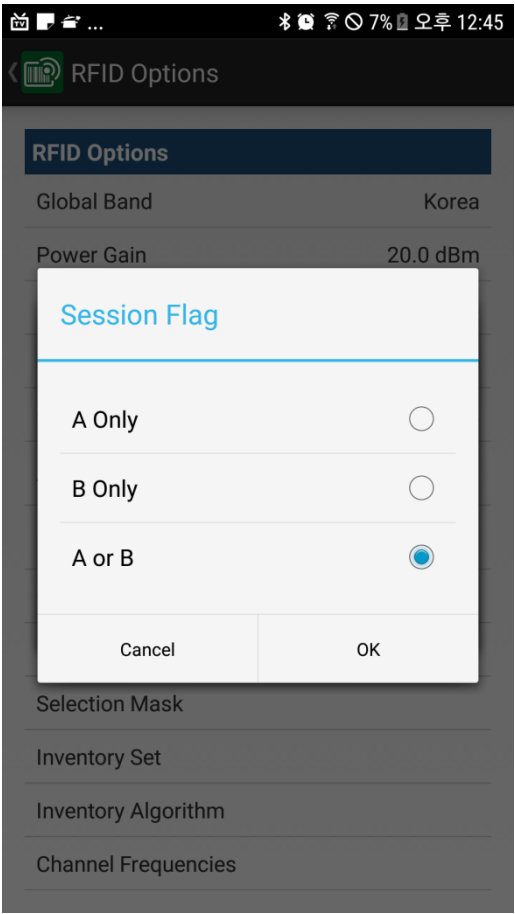
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Session Target	Description	Note
S0	This means Session Flag for checking the state is S0	
S1	This means Session Flag for checking the state is S1	
S2	This means Session Flag for checking the state is S2	
S3	This means Session Flag for checking the state is S3	

③ **Session Flag** :Among Inventory list, choose Session Flag state for comparison.

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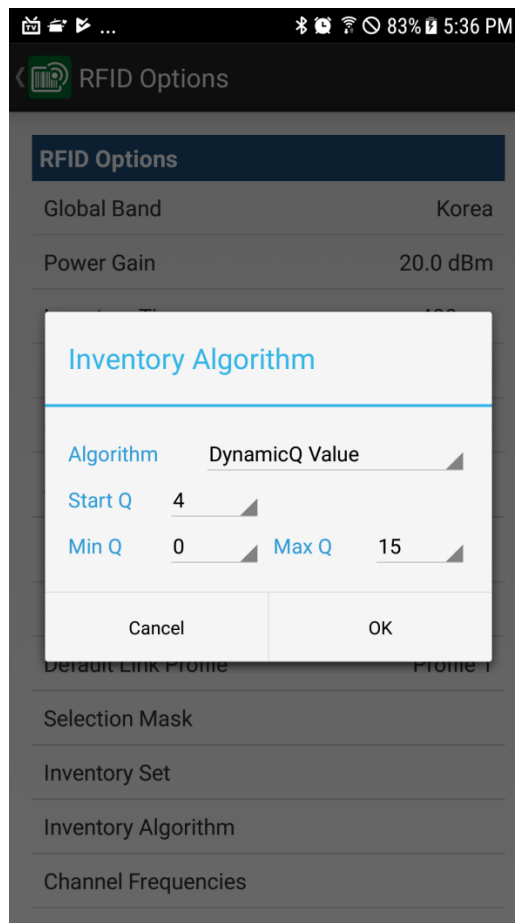
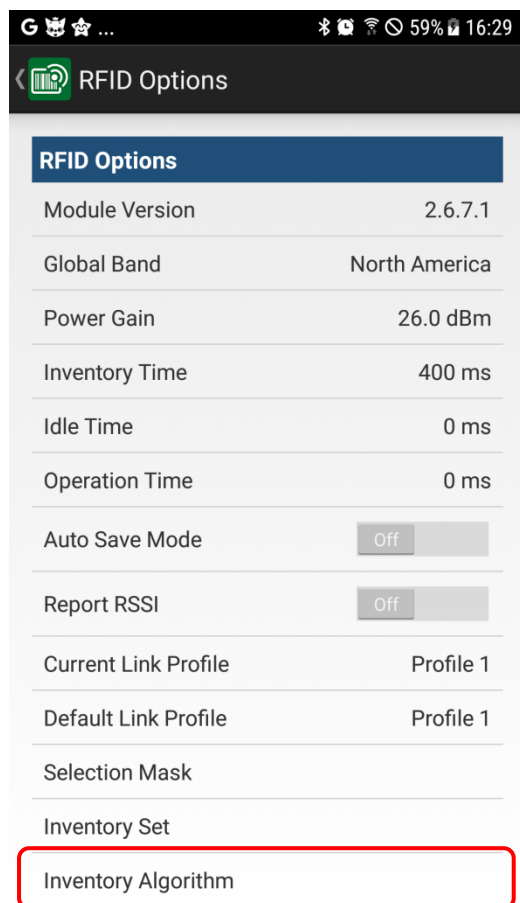


Session Flag	Description	Note
A only	This means that only tag with A Session Flag will be inventoried.	
B only	This means that only tag with B Session Flag will be inventoried.	
A or B	This means tag will be inventoried regardless of Session Flag state (A/B)	


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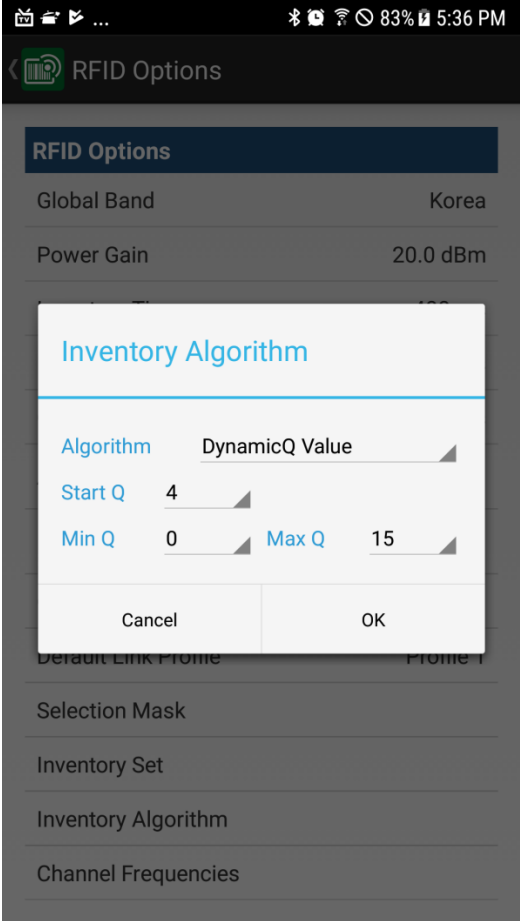
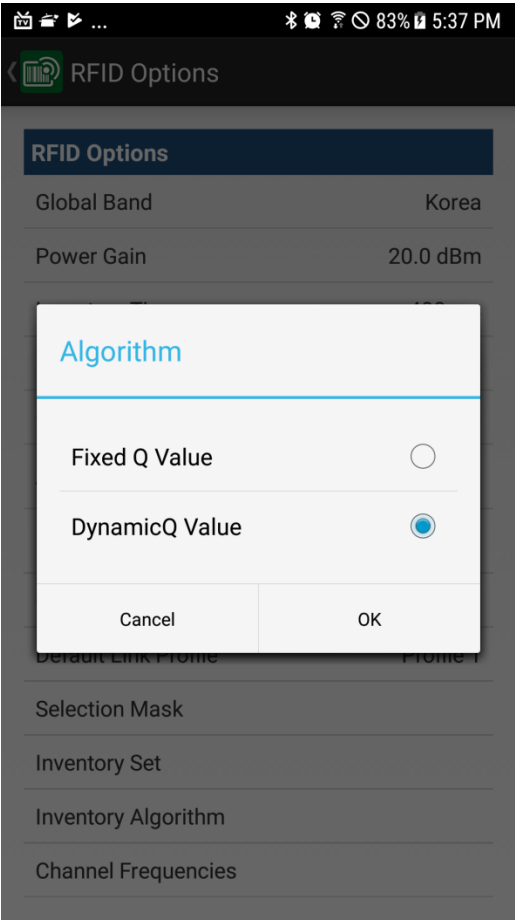
3.2.2.13. Inventory Algorithm

The Inventory Algorithm can set an algorithm for inventorying tags in RFID UHF.

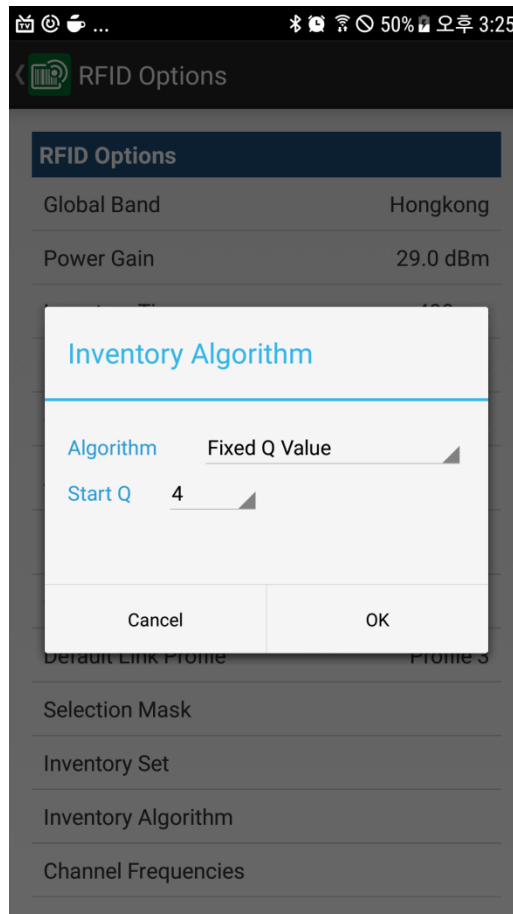
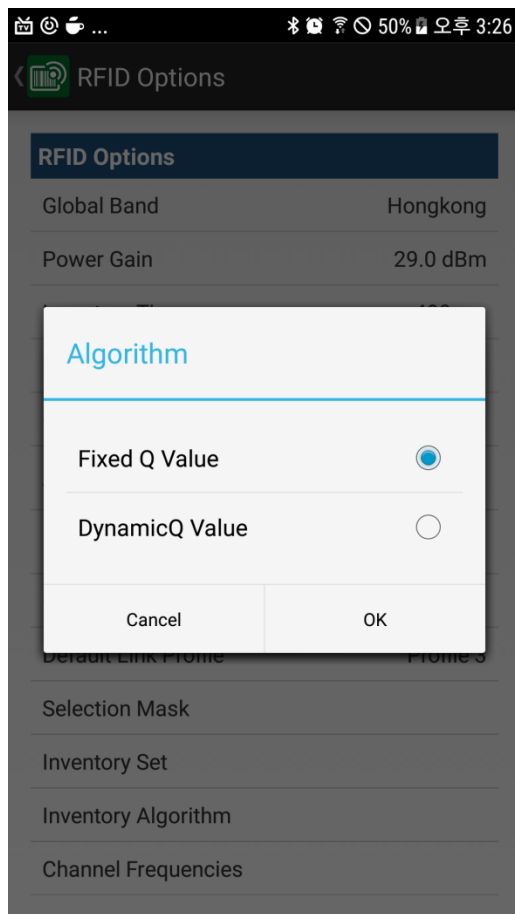


Inventory Algorithm can set algorithm currently used by RFID UHF module, Start Q value, Minimum Q value, and Maximum Q value.


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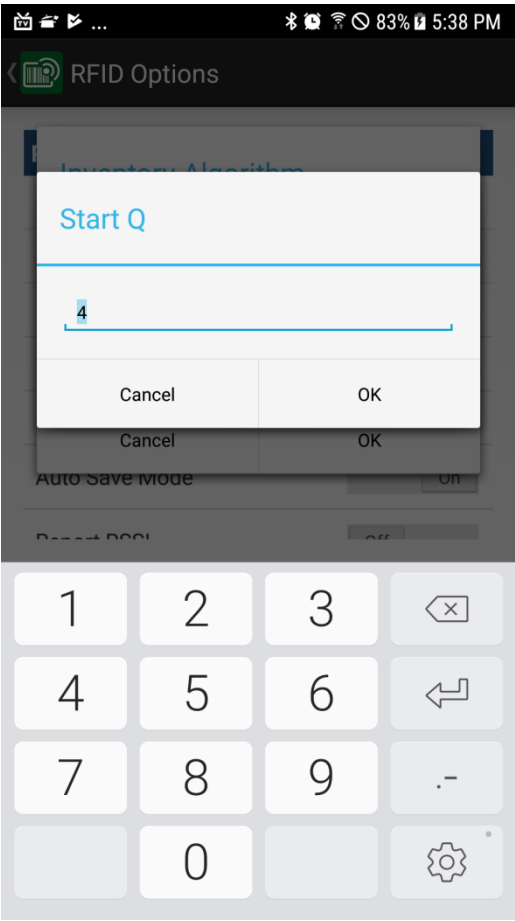


The algorithm can choose an algorithm that uses a fixed Q value, or an algorithm that uses a variable Q value. When selecting Algorithm as Variable Q, you can select the values for Start Q, Min Q, and Max Q.




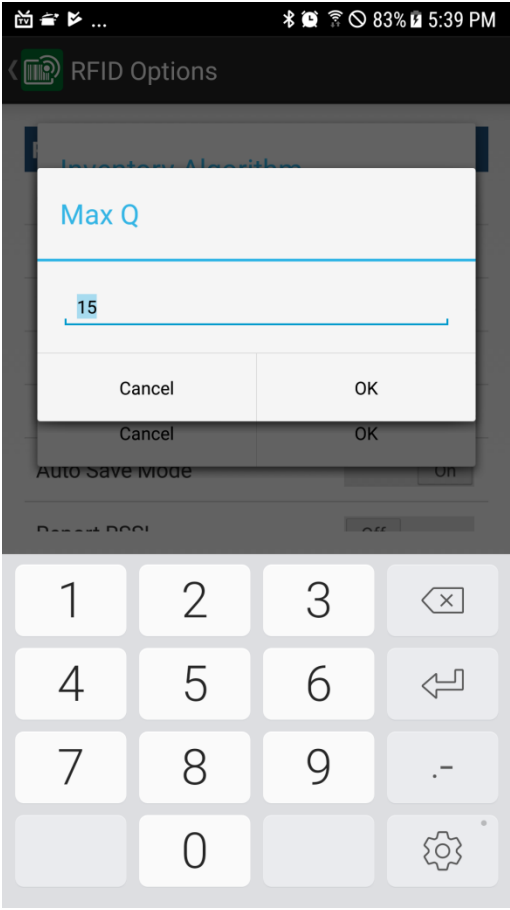
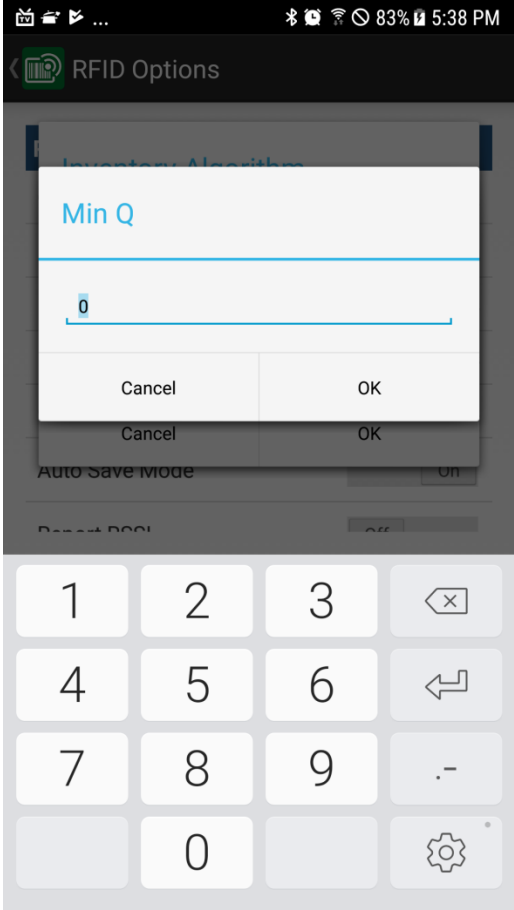
When selecting Algorithm as Fixed Q, you can select the values for Start Q.

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Start Q value can be set from 0 to 15.

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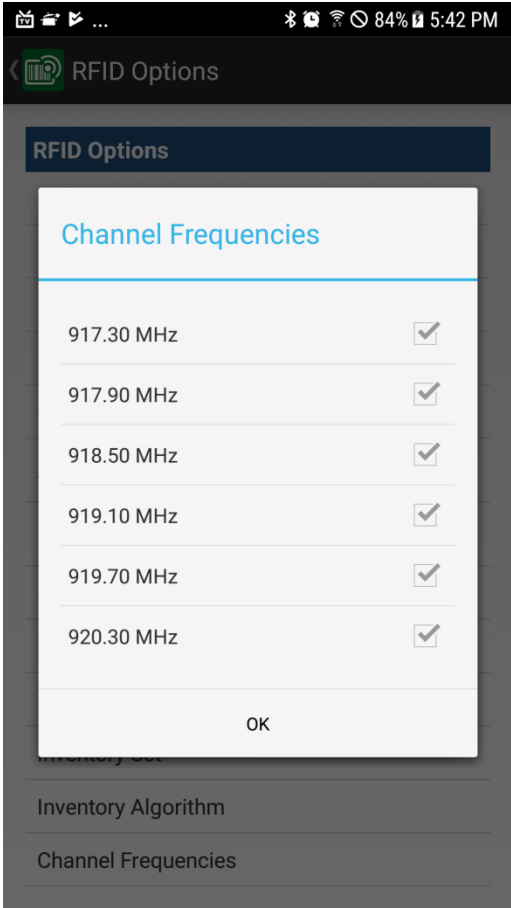
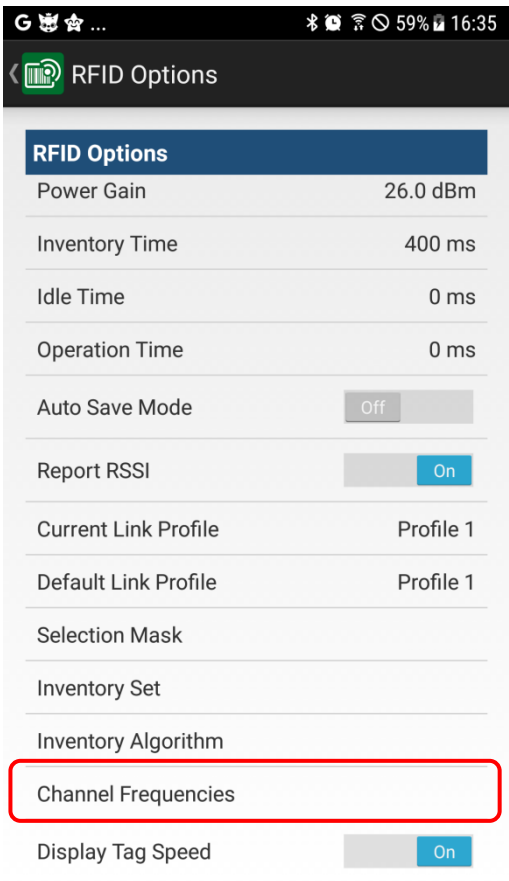
Min Q value is the minimum Q value, which can be any value less than the value from 1 to Max Q.

Max Q value is the minimum Q value, which can be any value more than the value from Min Q to 15.


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3.2.2.14. Frequency

With Frequency, you can search the frequency table according to the country set in the RFID UHF module.

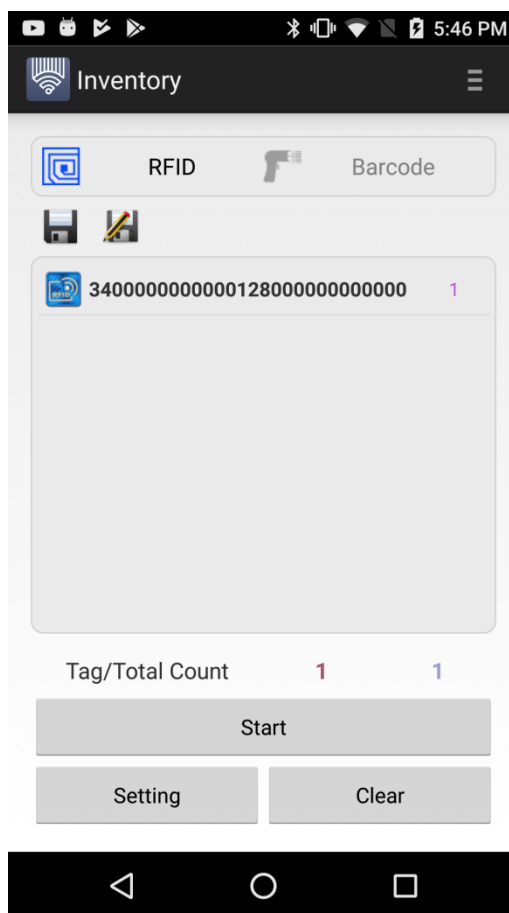
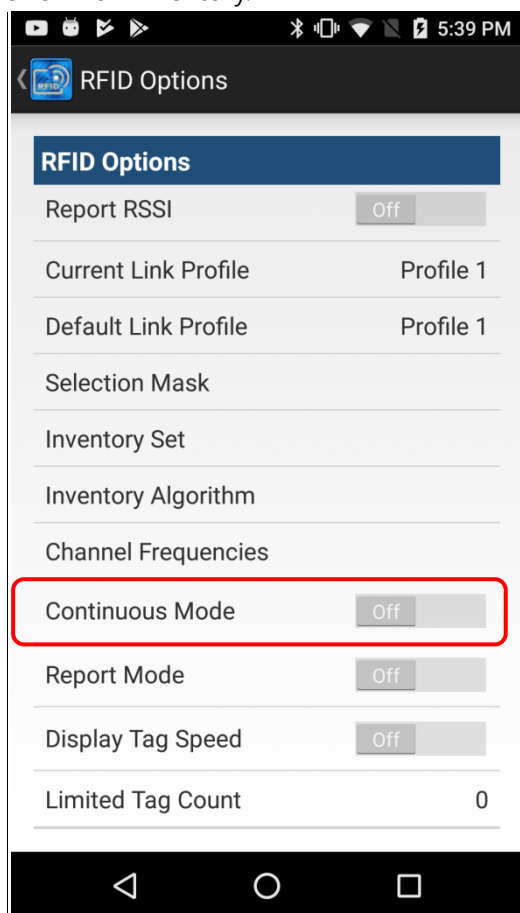


Whether or not to use it in the frequency table can be decided by looking at the check box on the right.


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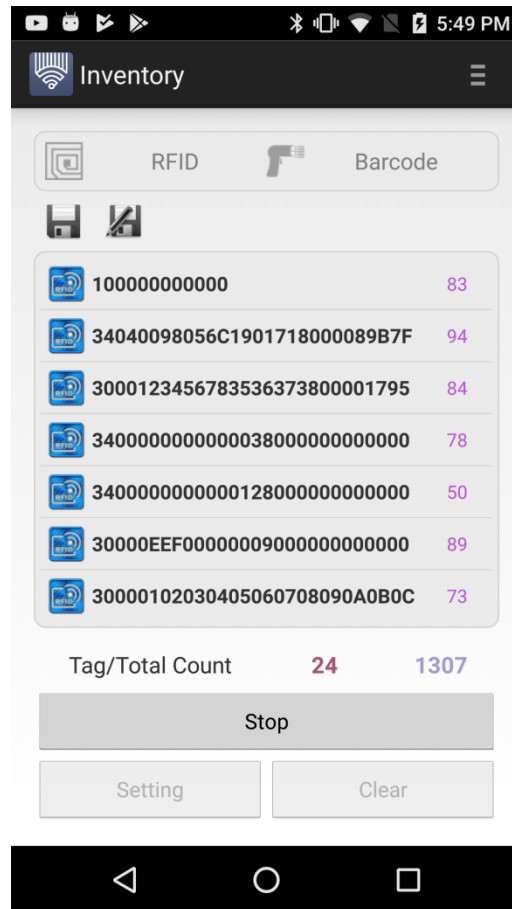
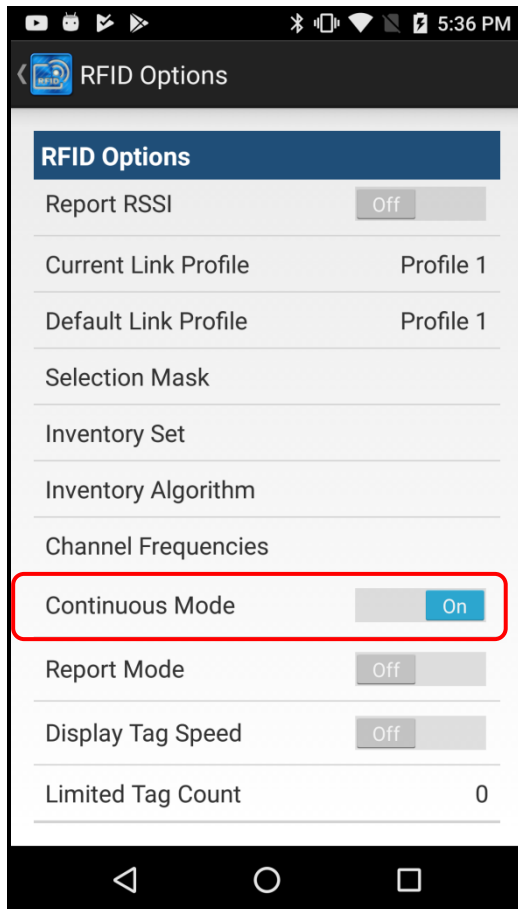
3.2.2.15. Continuous Mode

The Continuous Mode option allows you to set whether to read the RFID tag once and keep reading it when you perform an inventory.




When Continuous Mode is Off, the RFID tag is read once and the RFID tag is automatically stopped when Inventory is executed.

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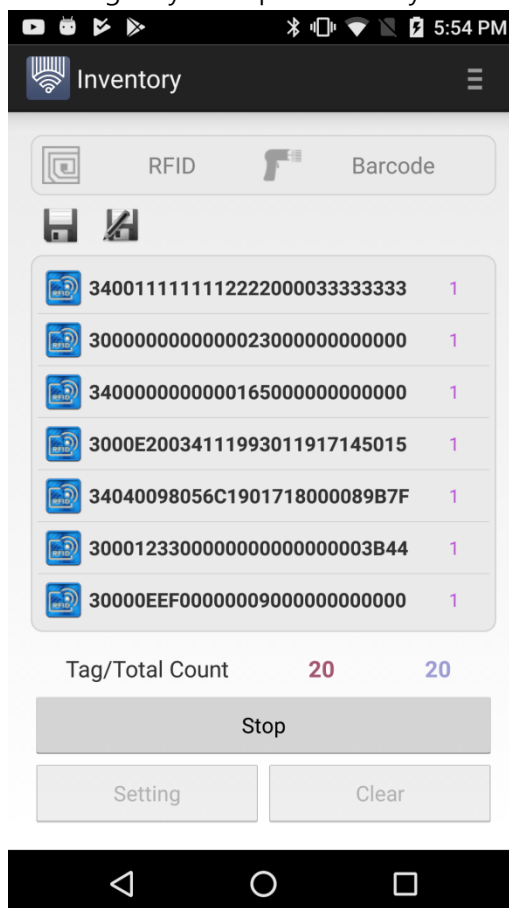
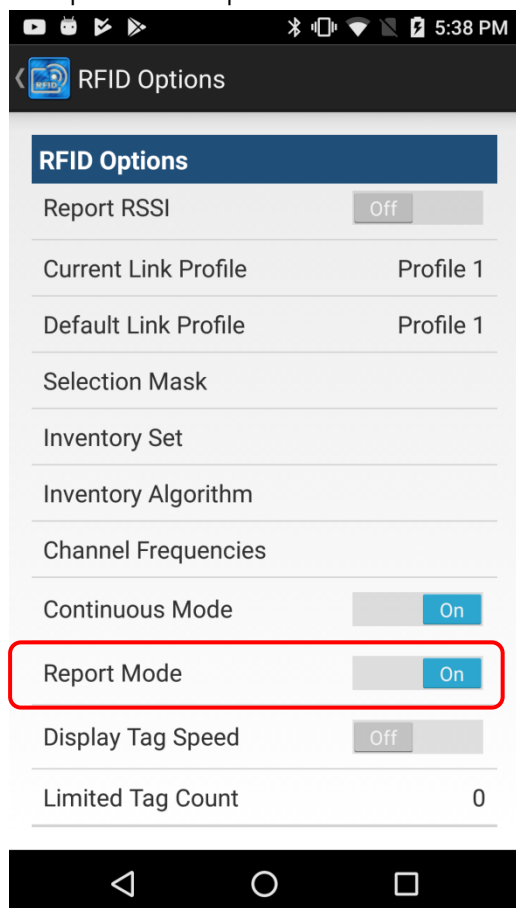


If "Continuous Mode" is On, Inventory will continue to read the RFID tag until the "Stop" button is touched.

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3.2.2.16. Report Mode

The Report Mode option can be set to read the same RFID tag only once per Inventory.




If Report mode is On, the same RFID tag is read once every Inventory.

In the second Inventory, the same RFID tag number is displayed as 2.

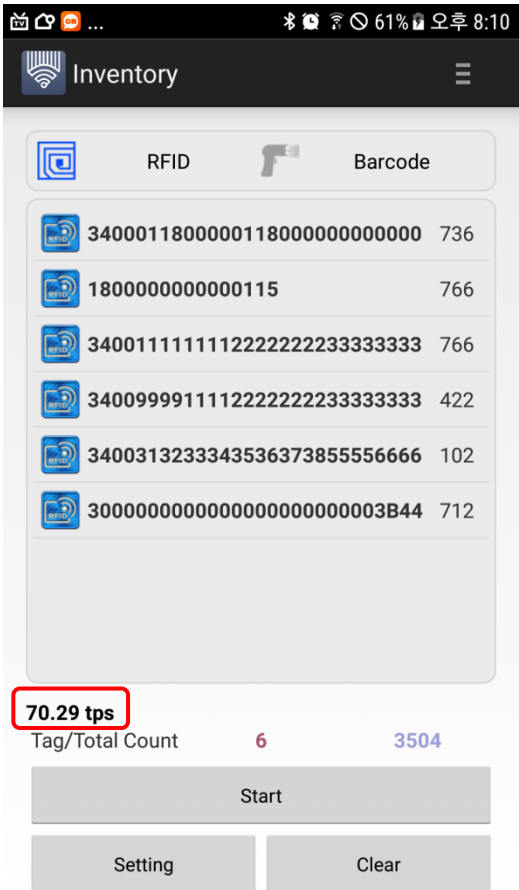
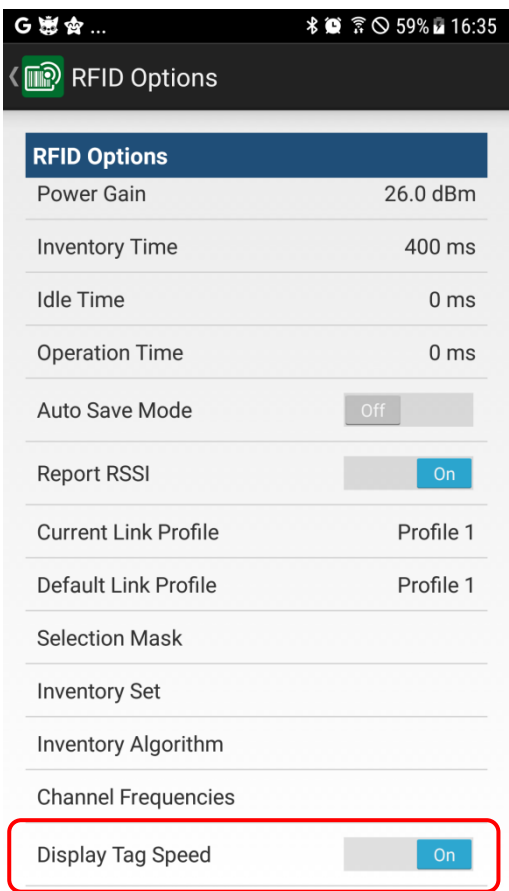
※ If you do not want to read the RFID tag read once in Inventory, you must turn on Auto Save Mode together.


※ This function is not support in ATS100 and ATD100.

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3.2.2.17. Display Tag Speed

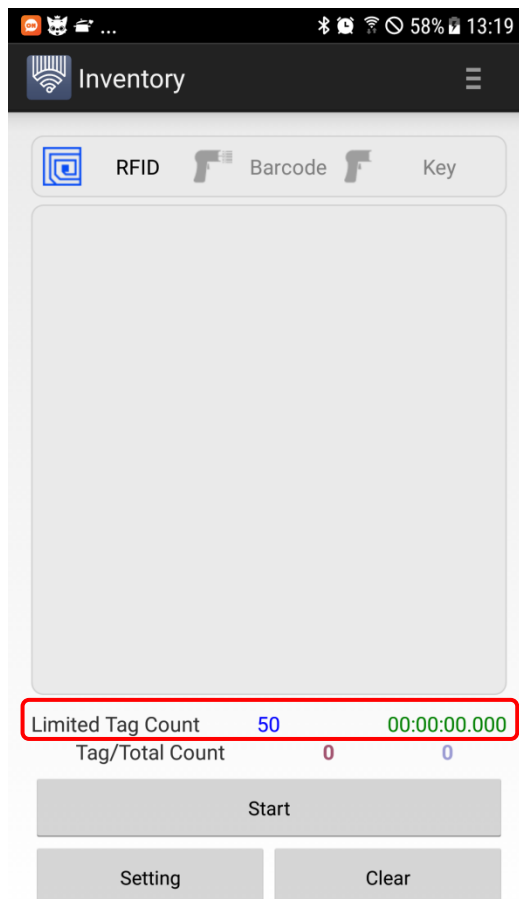
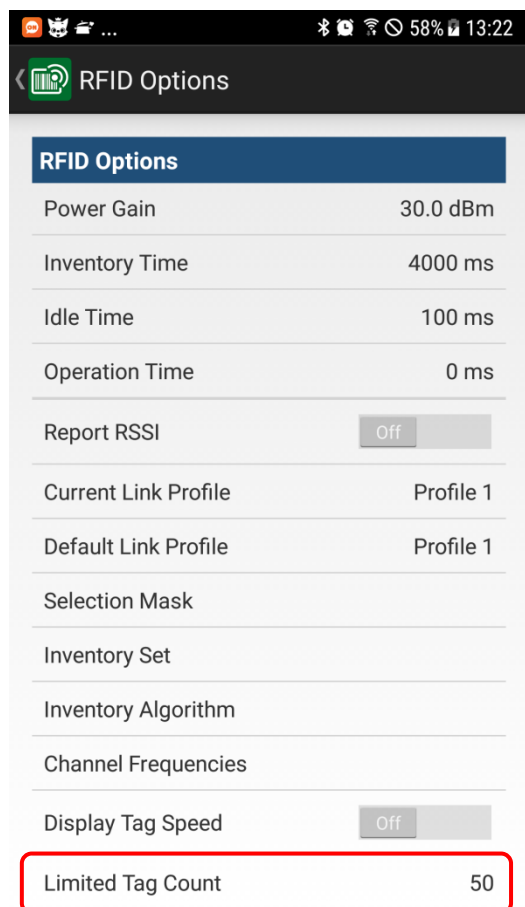
Display Tag Speed displays the number of tags read per second when inventorying RFID UHF modules.



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3.2.2.18. Limited Tag Count

Limited Tag Count will run RFID Inventory until the specified number of tags are read.



When the settled Tag is finished being read, Inventory is stopped and the time spent is displayed

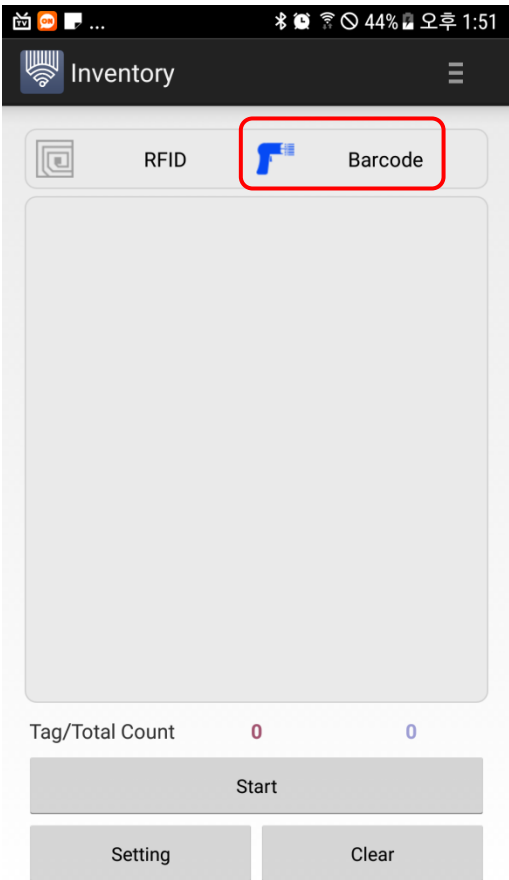
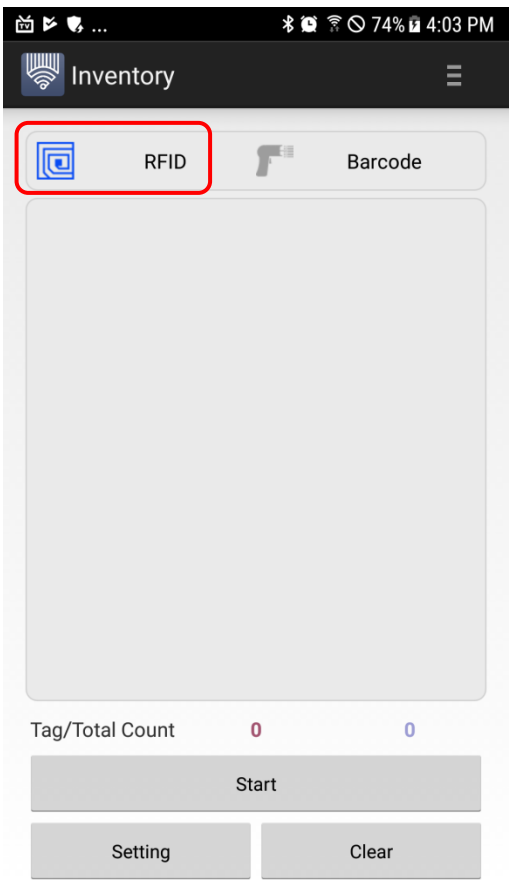
When Limited Tag Count is 0, RFID Inventory keeps running and Limited Tag Count is not displayed in Inventory View.


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3.2.3. How to RFID inventories and reading barcode

In the inventory screen, Operation Mode decides which action the device will perform from RFID UHF Inventory, Barcode Reading, and Key Event Reading.

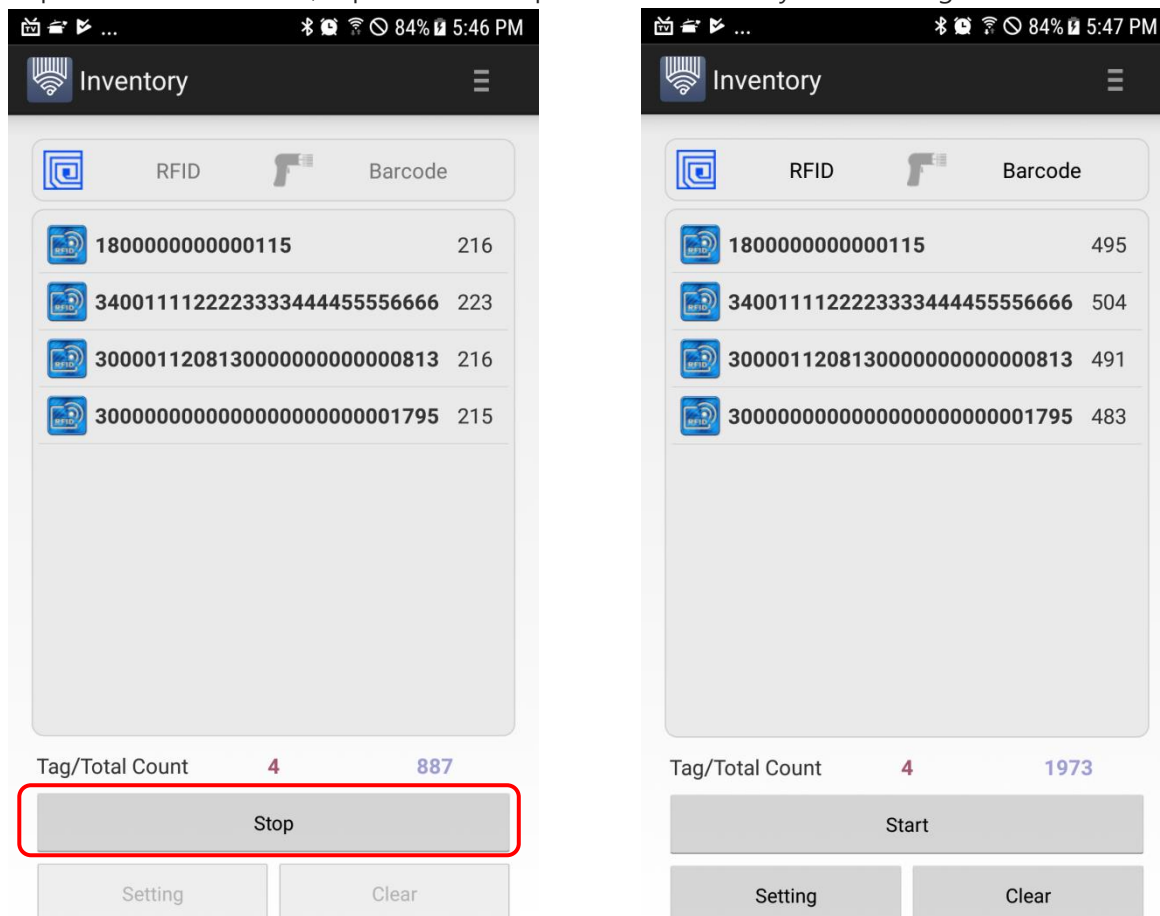
Operation Mode can be operated by touching on the Inventory screen, but it can be operated on the device. When operated on the device, the selection is reflected on the Inventory screen, and when operated on the Inventory screen, it is reflected to the device.



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If Operation Mode is selected, you can start the operation by touching the "Start" button.

If Operation Mode is RFID, it performs the operation to inventory the RFID tag.




When Inventory starts, the "Start" button changes to "Stop", and you can stop Inventory by touching the "Stop" button.

By default, Inventory reads the tags consecutively and prints them on the screen.

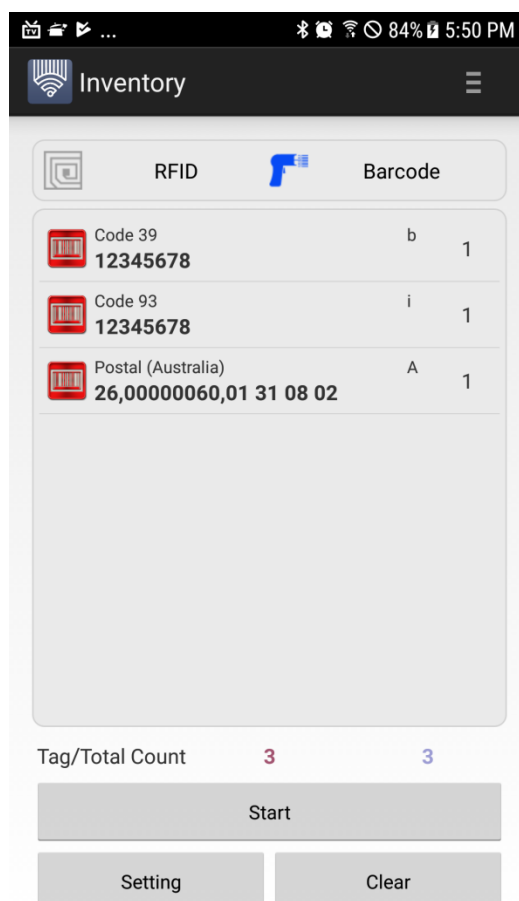
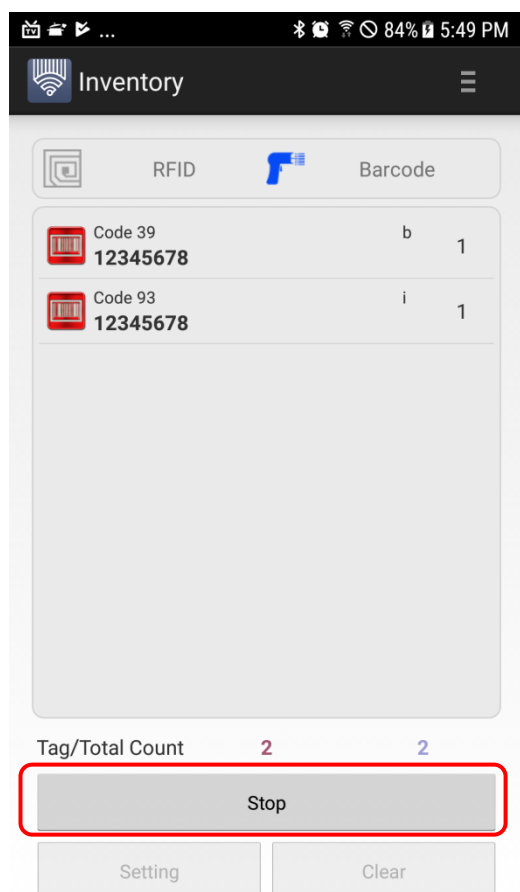
As for the screen display, the tags with same value will appear in the list as one. In the right of the tag list, the number of tags read is shown.

Tag / Total Count displays the number of tags displayed in the list, and in the right, the number of tags read from the beginning shown.

If you have a large number of tags loaded, you can drag your finger to scroll.


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If Operation Mode is Barcode, you can start Barcode Reading by touching "Start" button.



When Barcode Reading starts, "Start" button is changed to "Stop" button just like Inventory, and Barcode Reading can be stopped by touching "Stop" button.

In the case of barcode reading, barcode reading is automatically stopped when the barcode is read.

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3.2.4. How to reading Key Event


In the Inventory screen, Operation Mode lets you choose the device's action from RFID Inventory, Barcode Reading, and Key Event Reading.

Operation Mode can be operated by touching on the Inventory screen, but it can be operated on the device. When operated on the device, the selection is reflected on the Inventory screen, and when operated on the Inventory screen, it is reflected to the device.

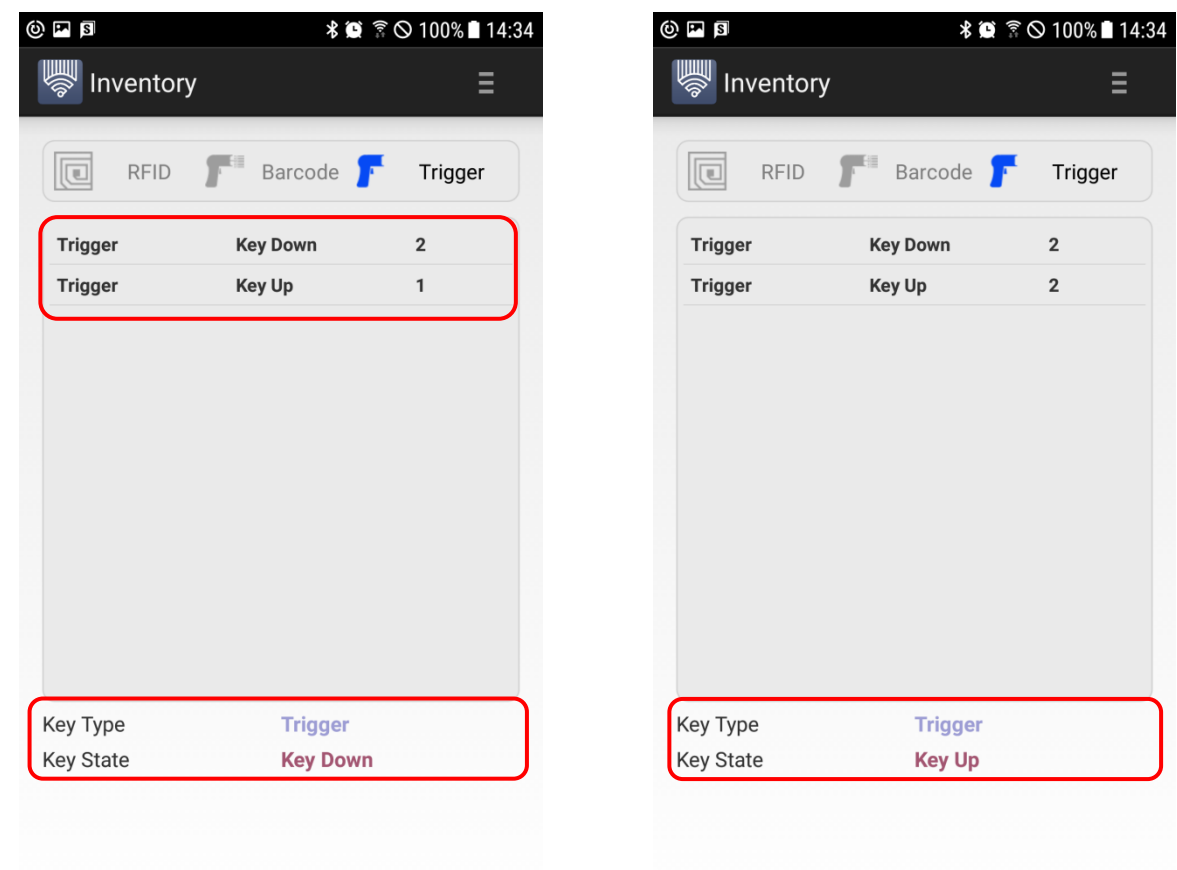
※ Only supported by ATS100



- ① **Data List** :Displays Key Event data read with the device.
- ② **Key Type** :Displays the type of Key
- ③ **Key State** :Displays the Up/Down state of the Key

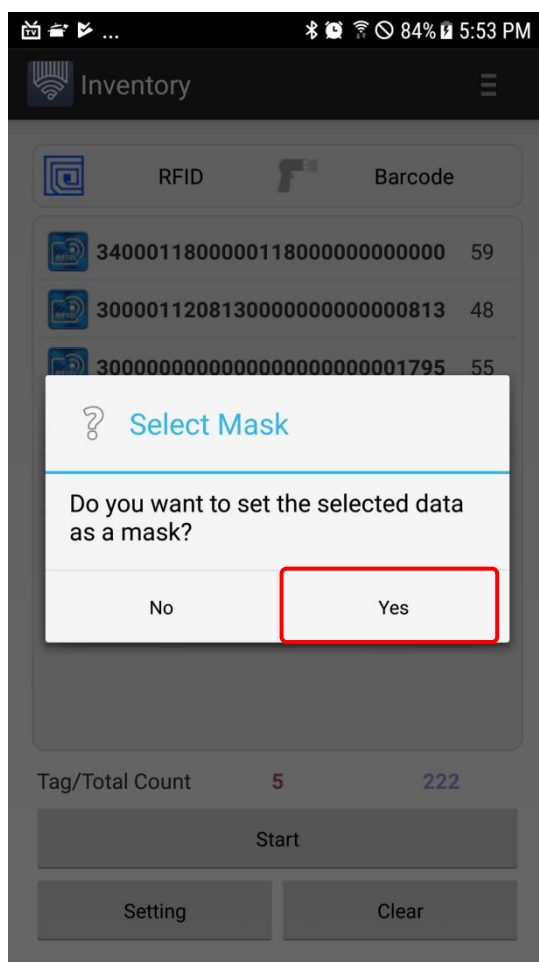
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If Operation mode is Key, Press Trigger button to start reading (Among the all Keys of the device)




The number and the status of Up/Down of the Trigger button are displayed

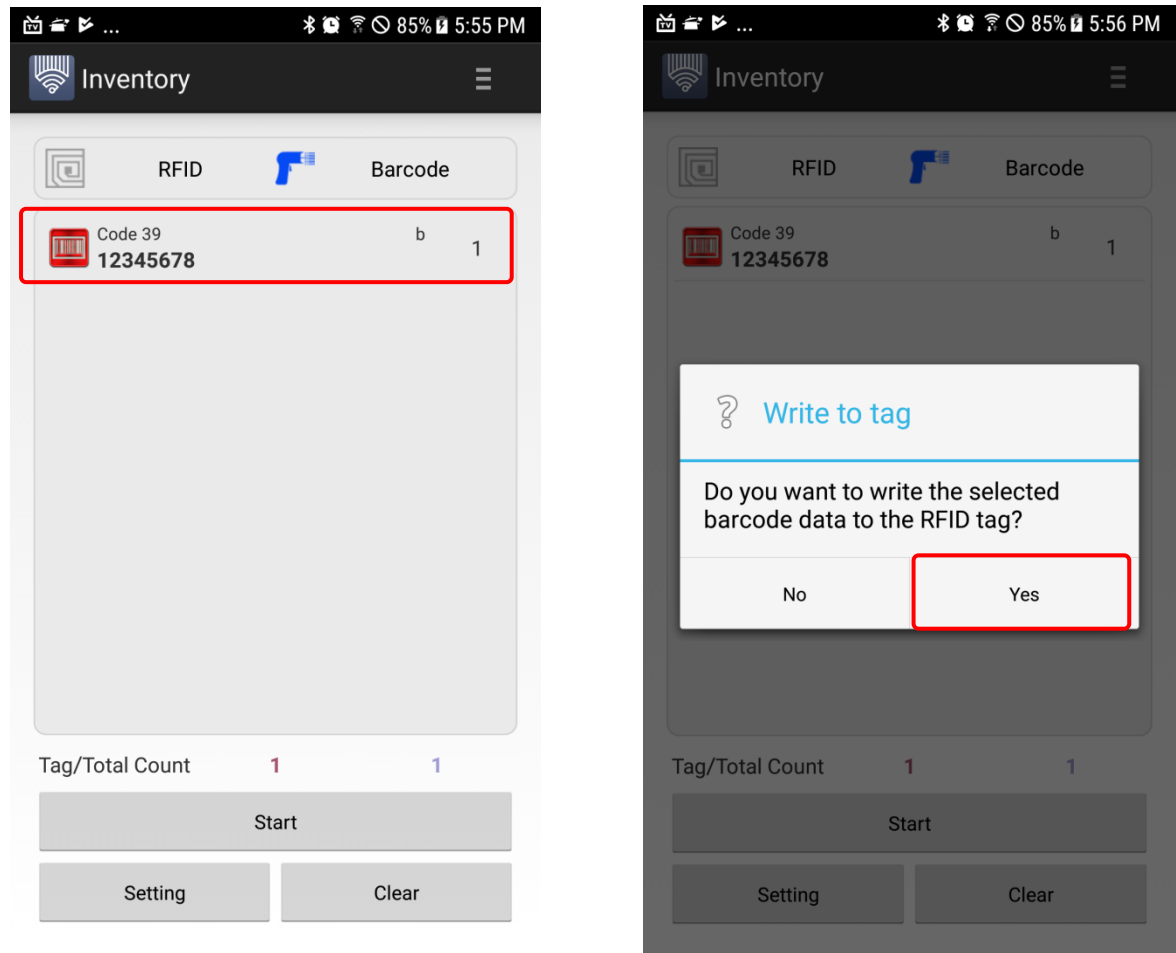
Touch and hold RFID tag (for about 3 seconds) of the barcode data you want to save. Then select it as Selection Mask.



Then, to read barcode data, press "Clear" button to reset Inventory screen.


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When the screen is reset, select Barcode as operation mode.
Then, touch Start button to read barcode.



If you Touch and hold the read barcode (about 3 seconds), a dialog box appears asking if you want to use the selected barcode data to the RFID tag.
Touch "Yes" on the dialog box.

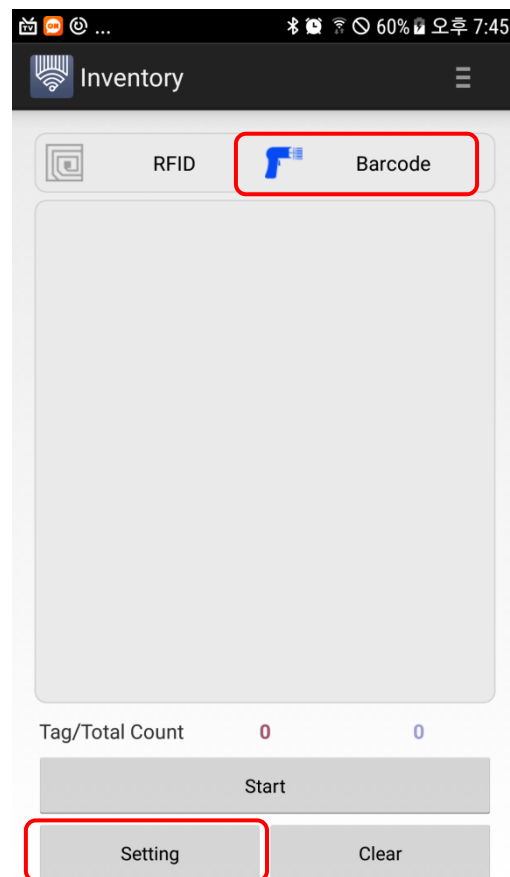
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3.2.6. How to change barcode options

※ as for ATD100 this function will not be provided

In Barcode option you may set up able to choose whether the Symbol in regard to Barcode Module will be used or not

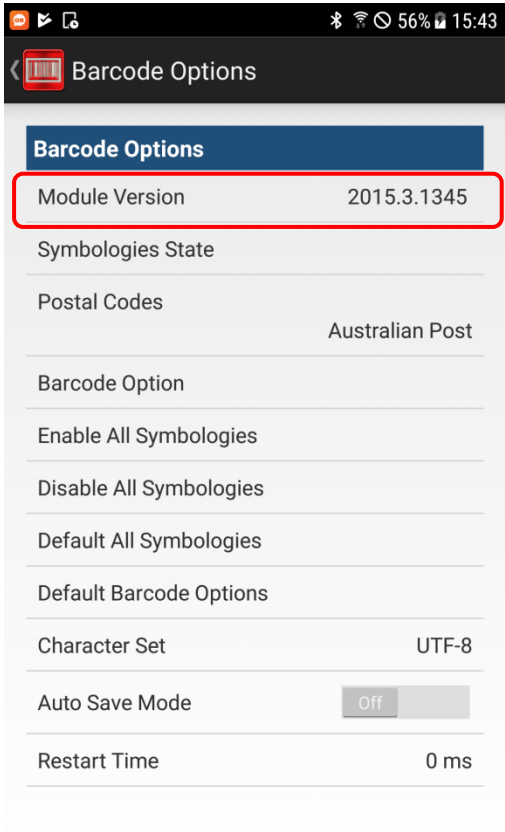



The menu of Barcode Option will display when touching Setting Button after selecting Operation Mode with Barcode

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3.2.6.1. Module Version

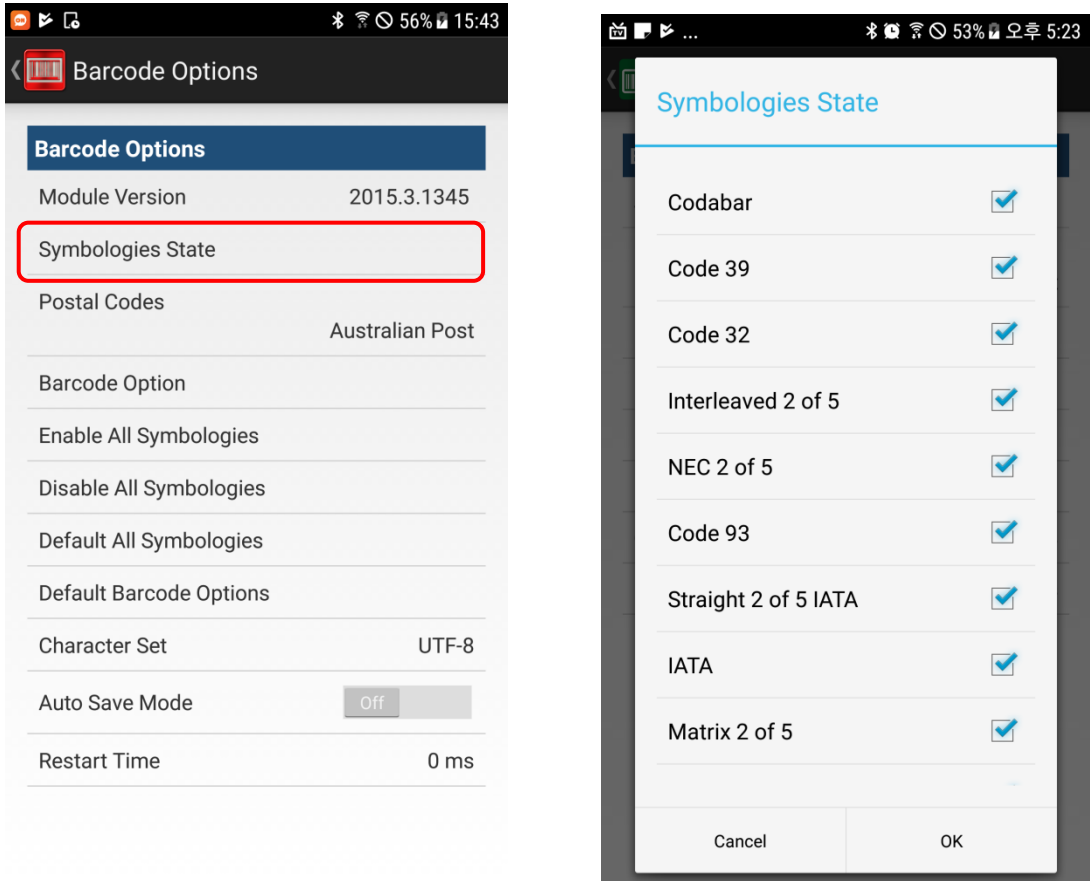
It displays information of the version of Barcode Module




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3.2.6.2. Symbologies State

In Symbologies State, user may select barcode symbol which can be recognized in Barcode Module at discretion.

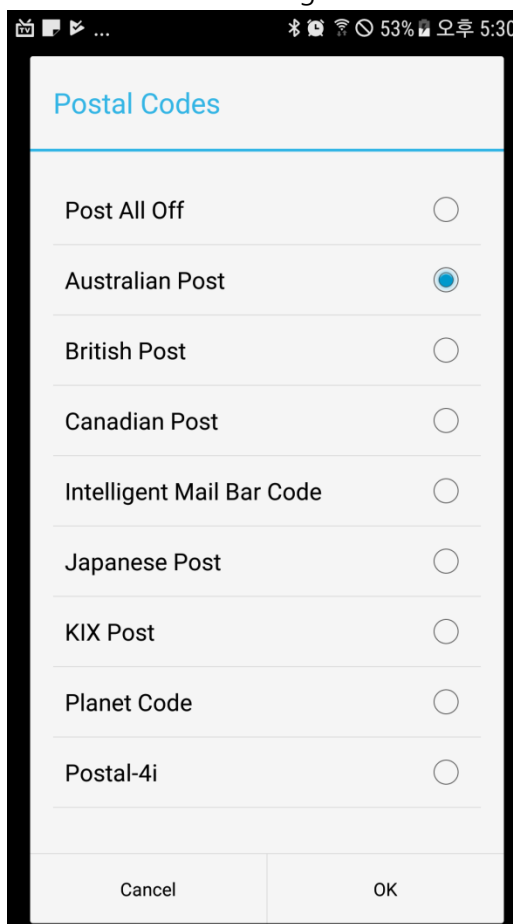
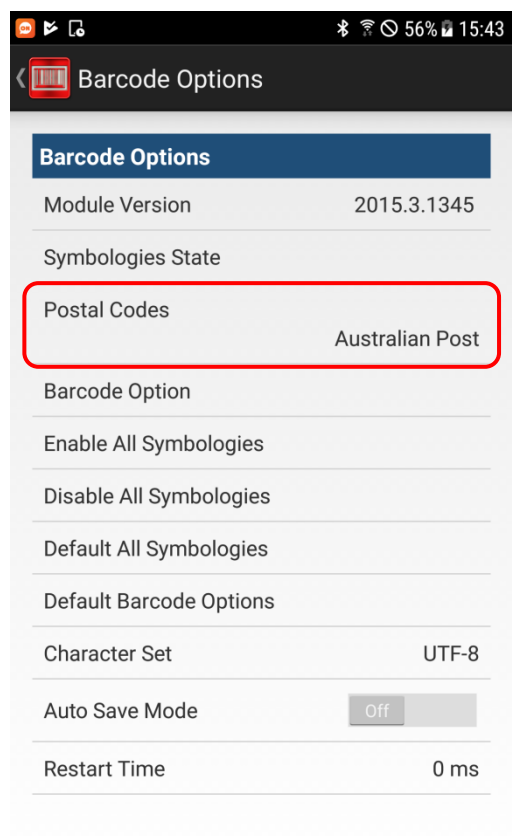


One of the strengths is that there will be increases of barcode symbols able to be recognized if many of all barcode symbols are activated but the recognition capacity of barcode, which is optically read and input, will decline. Thus, you may increase the capacity of module only by activating those barcodes mainly used.

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3.2.6.3. Postal Codes


In Postal Codes, at discretion you may select postal barcodes which are recognized inBarcode Module.



As the postal barcode symbol, you may select one of the symbols on the list above.

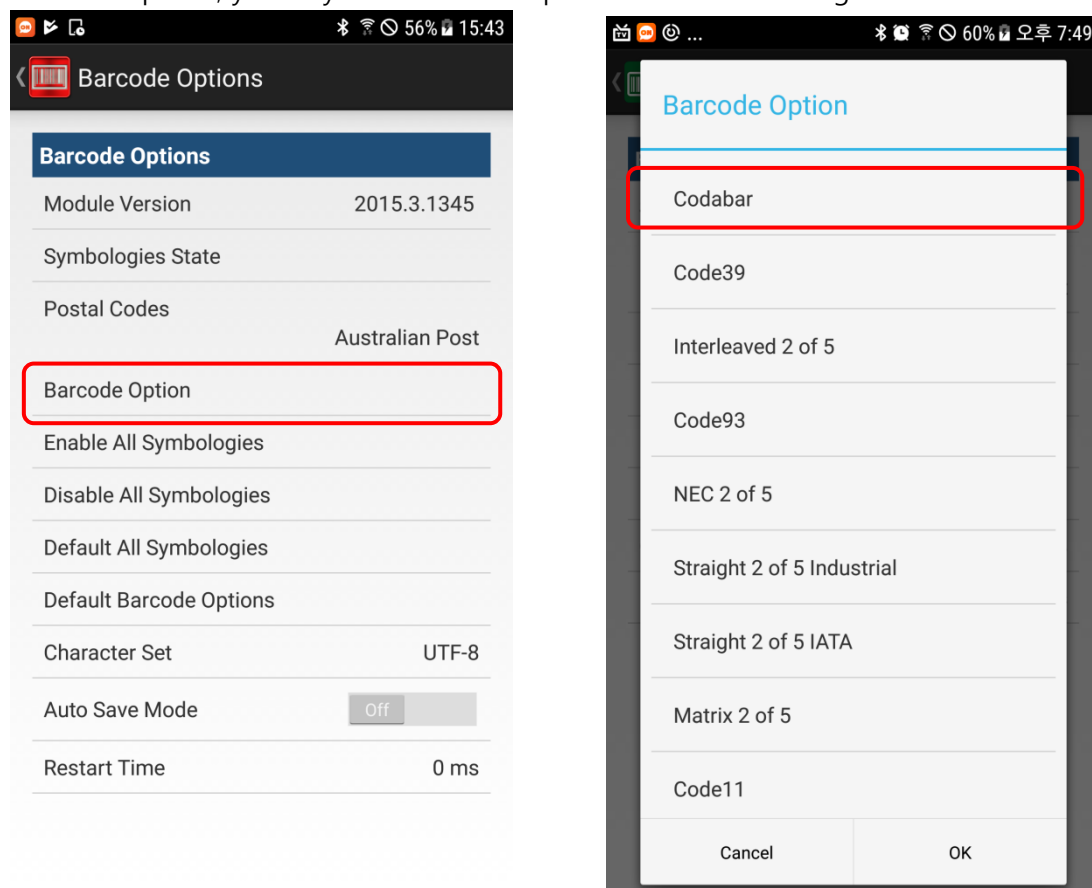
※this function is only provided in AT388.

As for AT188N and ATS100, you may select post barcode symbol from Symbolologies State.

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3.2.6.4. Barcode Options

In Barcode Options, you may establish a set-up in details able to recognize barcode of Barcode Module.

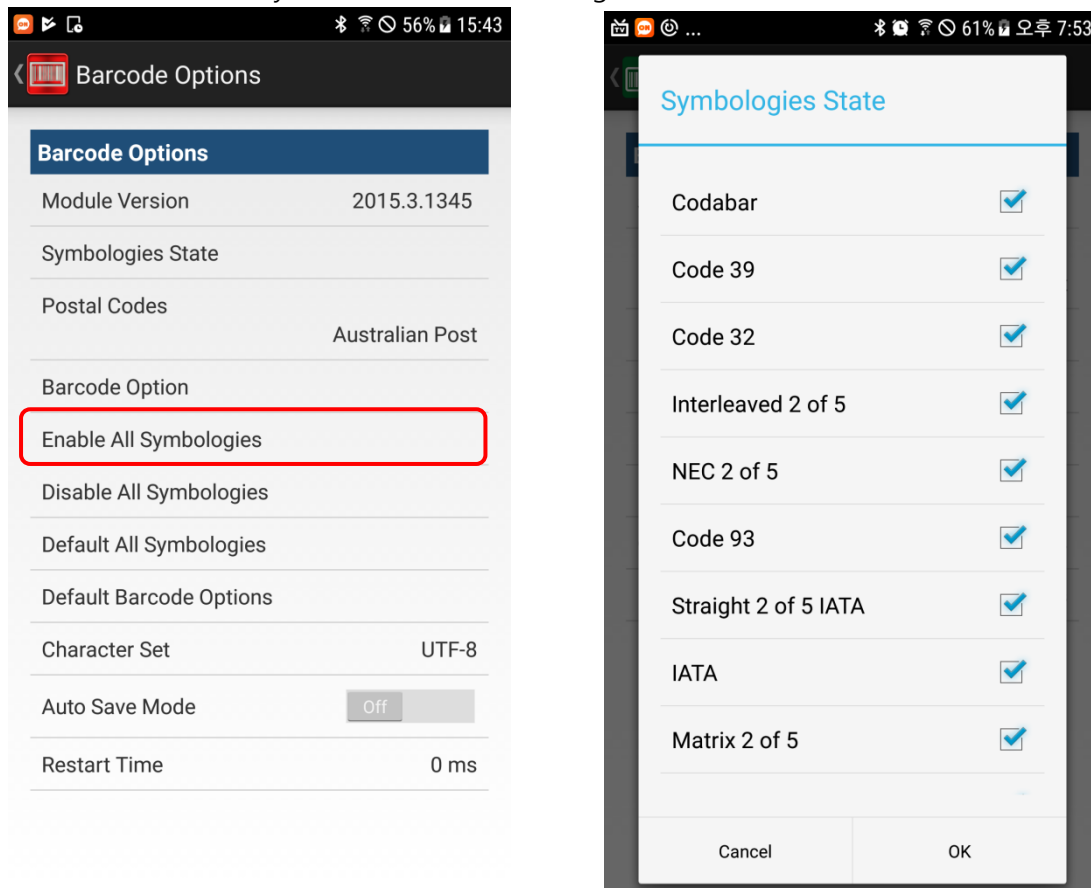


The screen for the set-up in details will display if touching the barcode symbol which you will establish from Barcode Option.


Item for the set-up in details could be different, depending on barcode symbol. For more details, refer to the Datasheet in Barcode Module.

3.2.6.5. Enable All Symbologies

It activates all barcode symbols which can be recognized in Barcode Module

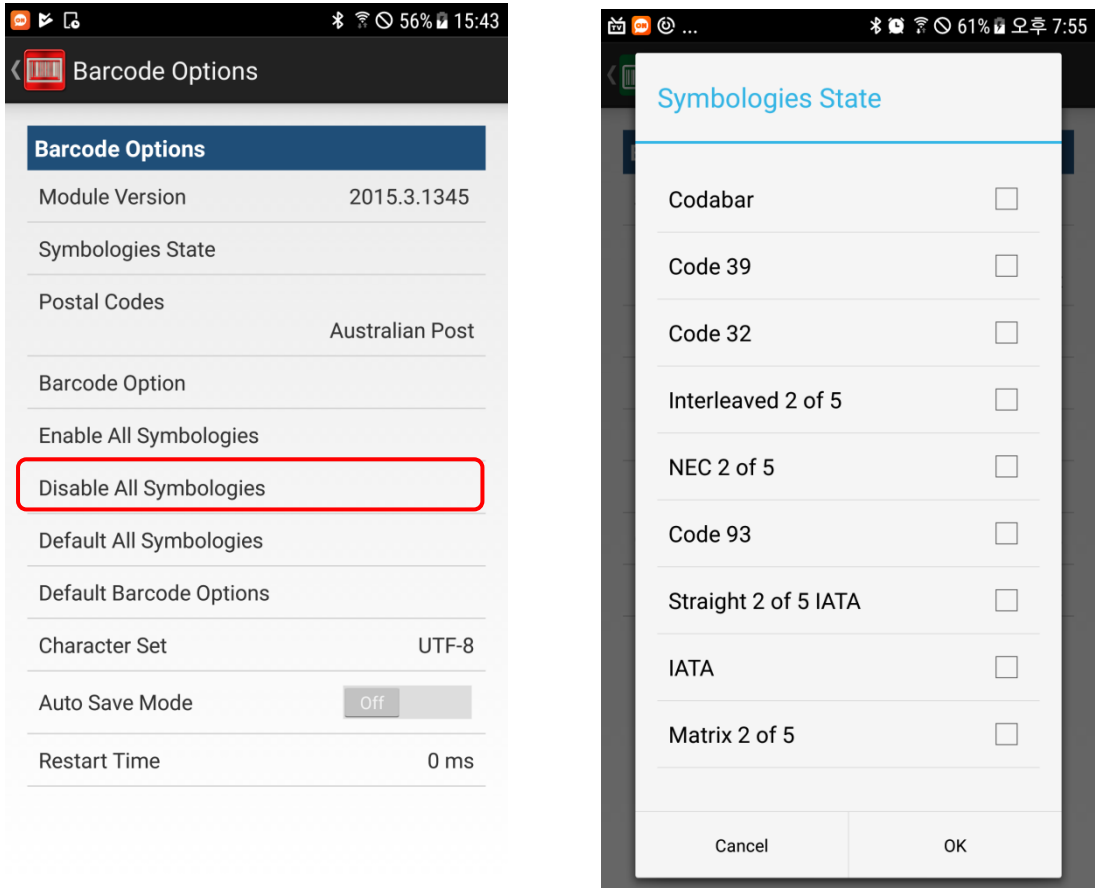


You may verify all symbols are selected if you enter into Symbologies State by touching Enable All Symbologies.


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3.2.6.6. Disable All Symbologies

It inactivates all barcode symbols recognizable in Barcode Module.

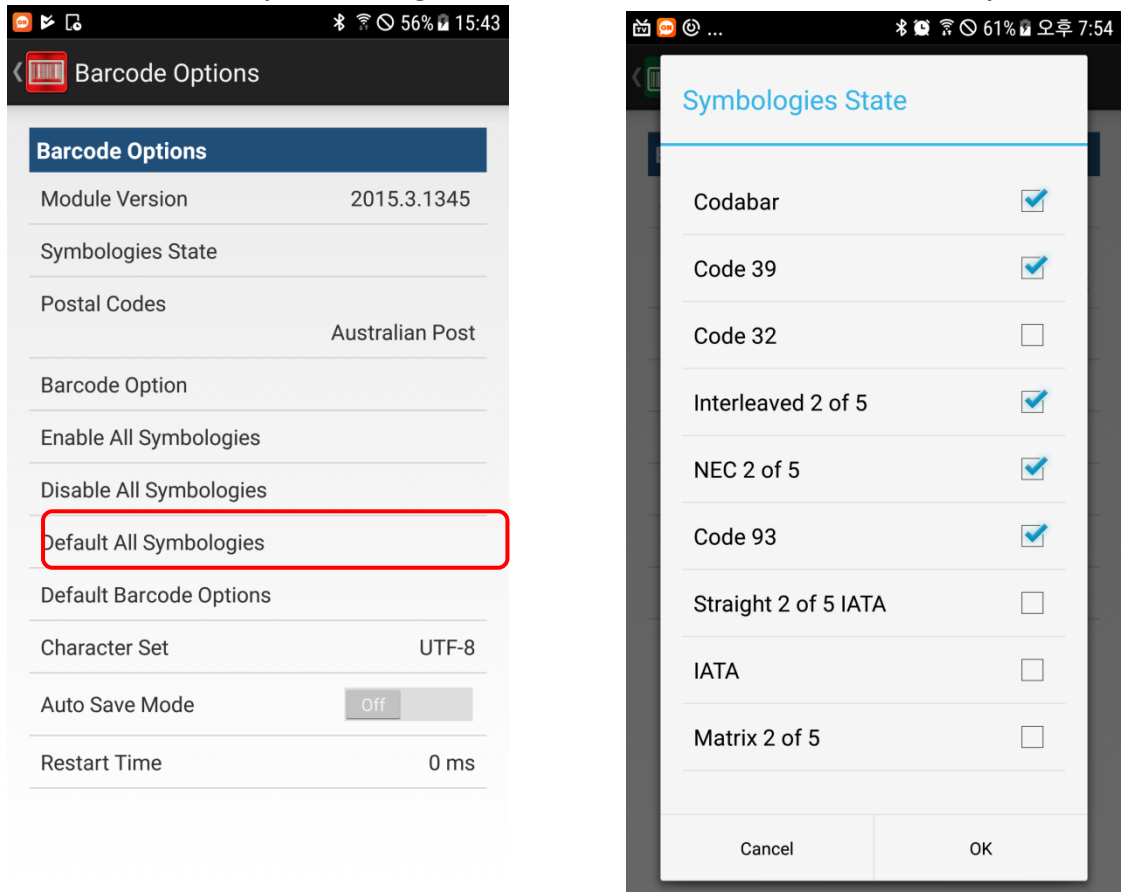



You may verify all symbols are not selected if you enter into Symbologies State by touching all Symbologies

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3.2.6.7. Default All Symbologies

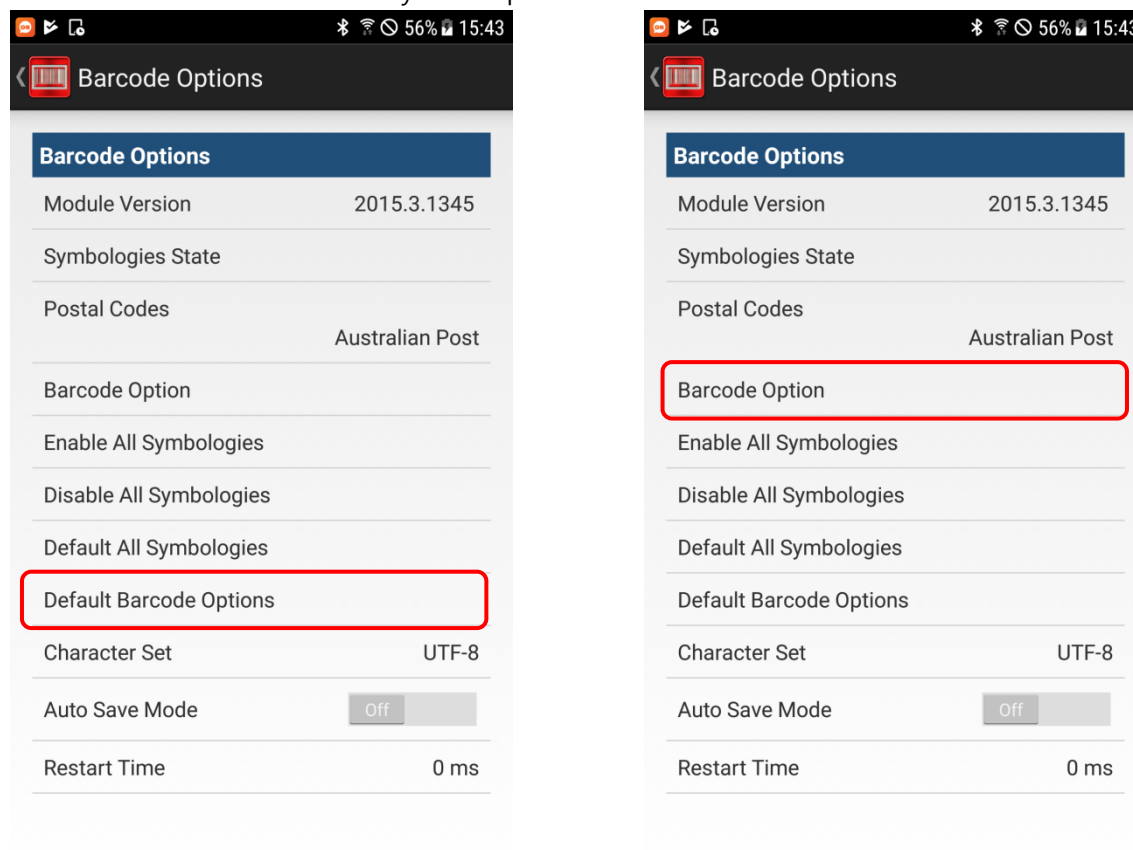
It initializes barcode symbols recognizable in Default Barcode Module into factory default value of the Module



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3.2.6.8. Default Barcode Options

It initializes the value of Barcode Symbol Options to the default value



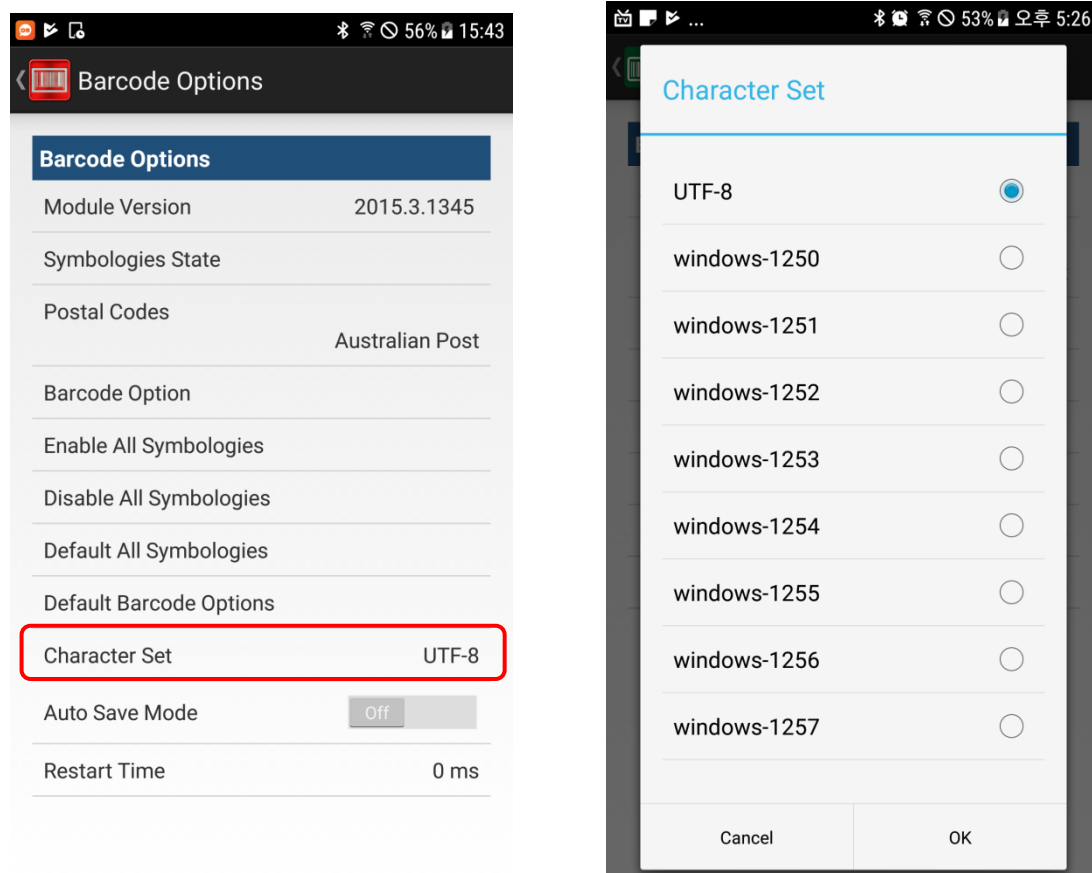
You may check the changed value after setting in the lists of Barcode Option.

Only zebra module is currently supported.


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3.2.6.9. Character Set

It is used to decode barcode symbol data recognized in Barcode Module and user may select it at discretion.



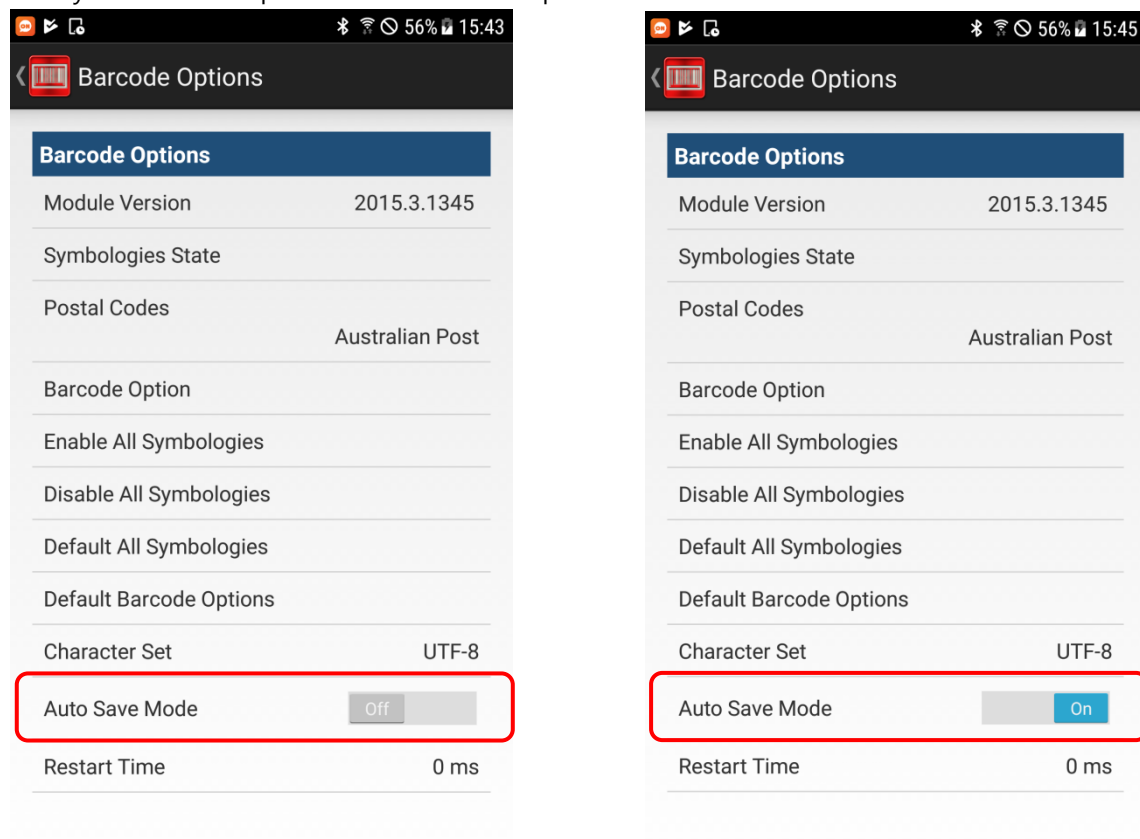
Barcode data may not display properly when barcode symbol is scanned after incorrectly set up.

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3.2.6.10. Auto Save Mode


In Auto Save Mode option, you may determine whether tag data input and barcode will be stored in the internal memory of tools. Auto Save Mode will be related to operation when tools and Demo are connected and it has no effect when not connected.

You may have more explanations about this option in the Stored Data screen.



Inventoried data will be stored in the tools when Auto Save Mode is on

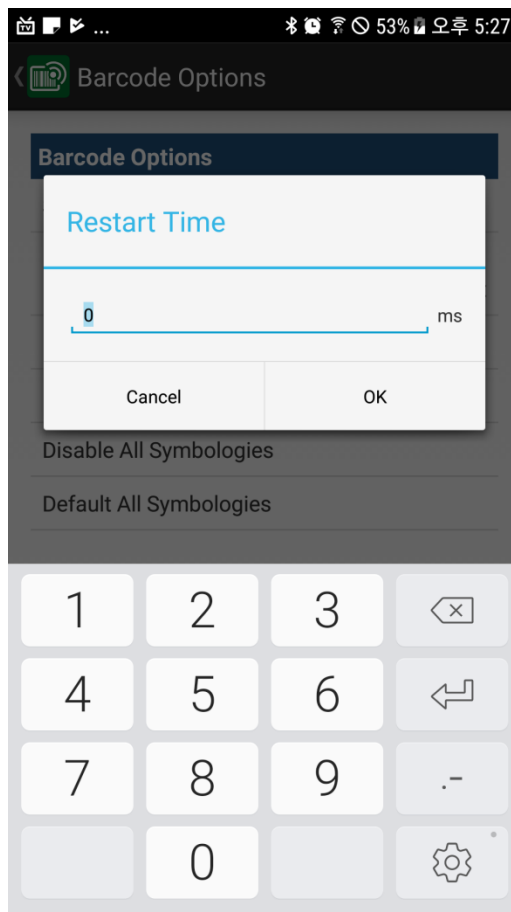
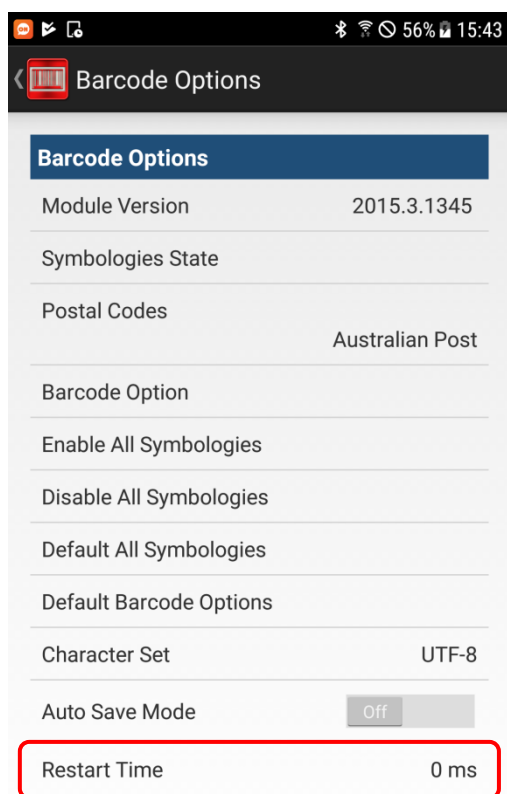
✖ This function is not support in ATS100.

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3.2.6.11. Restart Time

It can be used to operate Barcode Scan repeatedly.

Setting unit is ms



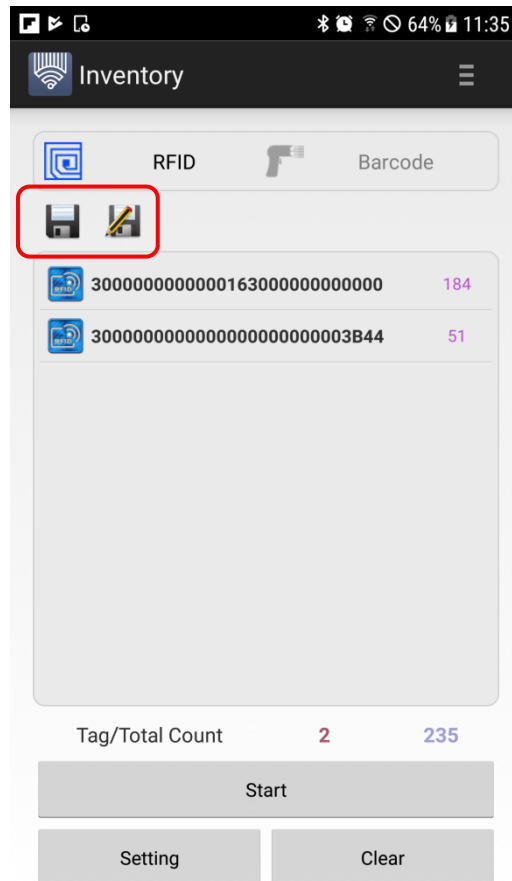
Repetitive performance will not in operation when is set as 0


It will be delayed as much as Restart Time after receiving barcode data when is set as more than 0 and then barcode scan will resume automatically.

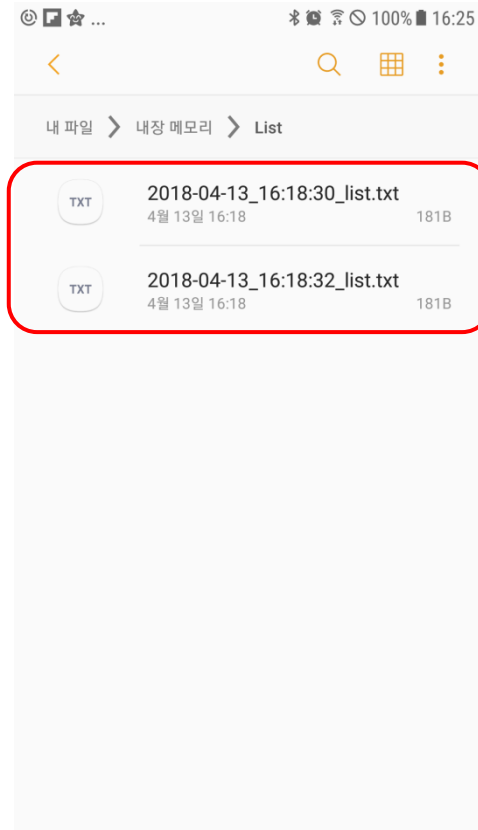
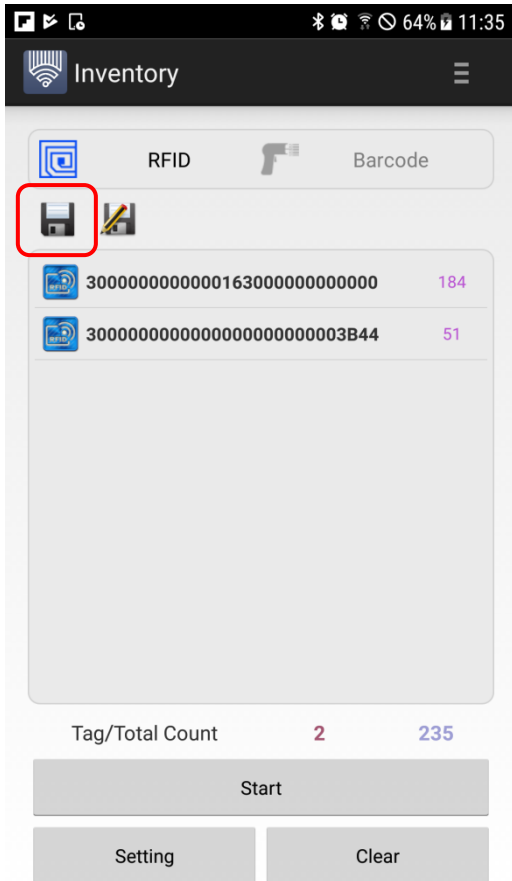
3.2.7. How to save data to file

Save the data displayed on the screen to a csv file.

If there is no data, save button will be disabled.



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If you click the "Save" button, data displayed on the screen will be saved on internal memory.

File will be created as below format. (comma separated value)

yyyy-MM-dd_hhmmss_list.txt

yyyy :Year


MM :Month

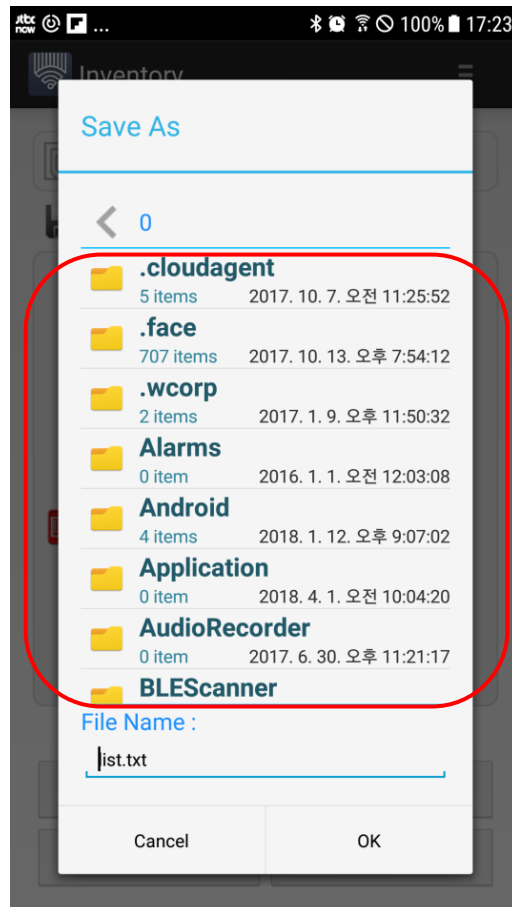
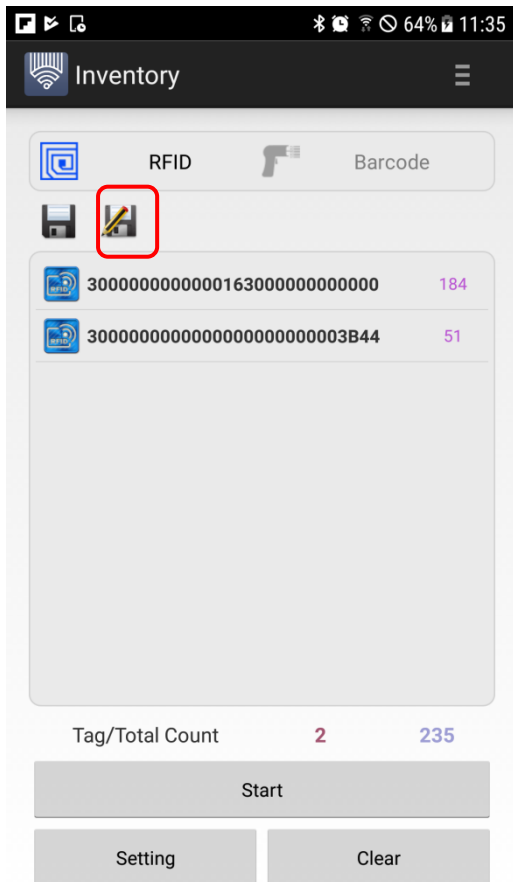
dd :Day

hh :Hour


mm :Minute

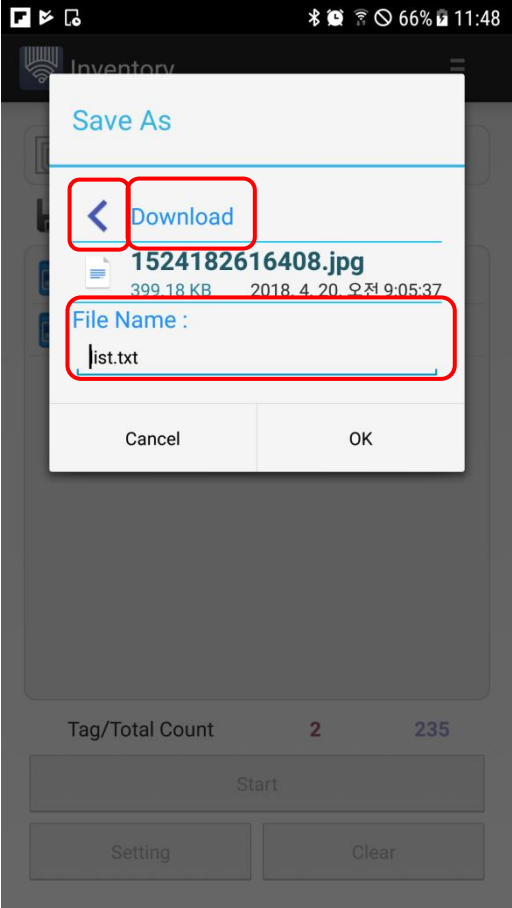
ss :Second

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If you click the "Save As" button, File browser will be appeared.
 Scroll the browser, Select your folder.

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Input your file name, and Click "OK" button
Then, file will be saved.

If the file is already exist, the file will be overwritten.
If you click "Cancel" button, the file will not be saved.

3.3. Selection Mask

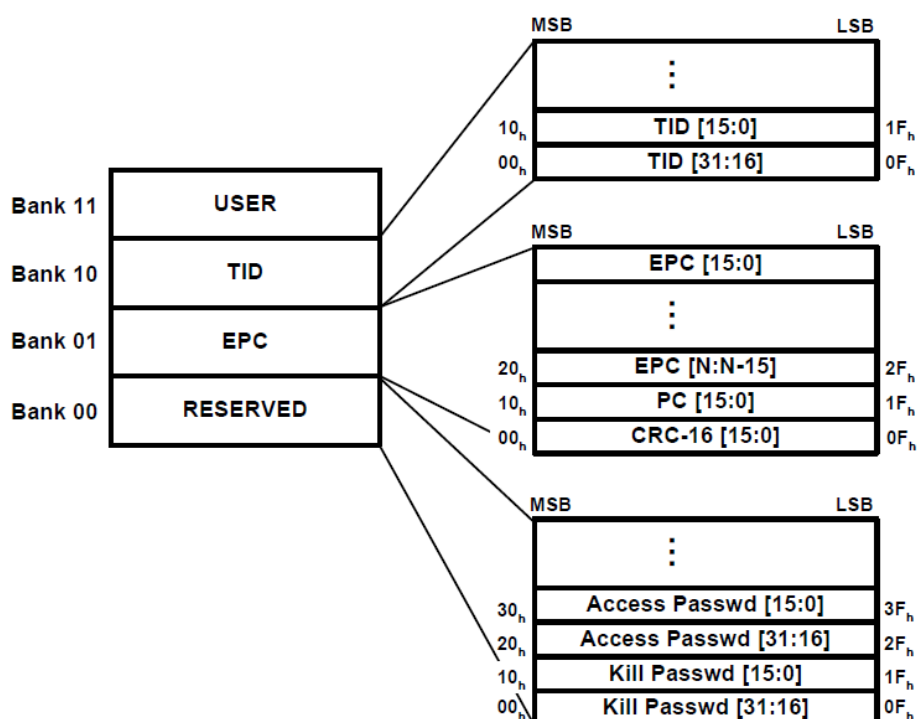
It functions relating to RFID in all screens except Option Screen, able to move to the setting screen of Selection Mask by pressing "Mask Button."

Its function is to set up for the access to the tags particularly conditioned among RFID UHF technologies.

understand the structure of RFID tag to understand Selection Mask and the logic how RFID tools read RFID tag in

3.3.1. Tag Memory

RFIDtag is an IC chip which data is stored in; thus, it has memory in which data is stored. The memory of the tag consists of 4 components and its memory is seen below.



Reserved Memory includes Kill Password and Access Password.

In EPC Memory, the first WORD (00h ~ 0Fh) includes Stored CRC and the second WORD (10h ~ 1Fh) includes Stored PC. After that (after 20h), the rest Word includes the value input to discern tags.

In TID Memory, the initial 8bit (00h ~ 07h) includes class distinguisher allotted from ISO/IEC 15963. In the later TID memory address which is more than 07h, there includes custom command able to distinguish tags uniquely and optional specification information.

As User Memory is an optional specification, you may read and write data in it if it is actualized in tags.

3.3.2. Tag Query

Tag supports four Session Flags (S0, S1, S2, and S3) and oneSelect Flag.

It establishes the designated session flag in regard to Selection Mask or Select Flag Leader asks about. And leader will read Tag data based on the given Session Flag and Select Flag during inventory round.

Session Flag has A value or B value. A is its default value. Select Flag remains asAssert status or Deassert state. Assert is its default state.

It will establish Session Flag or Select Flag according to the conditions of Selection Mask and the tags of the conditions of Session Flag or Select Flag. Session Flag or Select Flag will return to default value at a fixed time under the state of no energy supply. The standard of energy supply for tag in which there is no separate power is operated by using the wave sending Leader as energy. Thus, the energy supply time is similar to the time of inventory round.

The table below shows the default time of each flag.

Flag	Tag energized	Tag not energized
S0 SessionFlag	Indefinite	None
S1 Session Flag	500ms < Persistence < 5s	500ms < Persistence < 5s
S2 Session Flag	Indefinite	2s < Persistence
S3 Session Flag	Indefinite	2s < Persistence
Select Flag	Indefinite	2s < Persistence

The conditions of Selection Mask are Target, Action, Bank, Offset, Length, Pattern, and etc.

Target will designate Session Flag or Selection Flag to set up it as the established state of Action if the pattern conditions of Selection Mask are set up based on Action.

Action will designate its own operation either the conditions of offset, length, and pattern match or does not match to bank.


The table below shows the operation of action.

Action	Tag Matching	Tag Not-Matching
0	assert SL or inventoried → A	deassert SL or inventoried → B
1	assert SL or inventoried → A	do nothing
2	do nothing	deassert SL or inventoried → B
3	negate SL or (A → B, B → A)	do nothing
4	deassert SL or inventoried → B	assert SL or inventoried → A
5	deassert SL or inventoried → B	do nothing
6	do nothing	assert SL or inventoried → A
7	do nothing	negate SL or (A → B, B → A)

Bank will designate Tag Memory to compare the given patterns.

Offset will designate the start address in which begins comparing patterns of Selection Mask in bank by bit.

Length will designate the length of patterns of Selection Mask to be compared in bank by bit. The only given

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length will be compared to though pattern is longer than length. For example, if you want to read the tag starting with the PC value of 0x3000 for EPC, you may designate Selection Mask as below.

Mask Parameter	Value
Target	SL
Action	0
Bank	EPC
Offset	16bit
Length	16bit
Pattern	0x3000

If we interpret the conditions of Selection Mask on the above table, we will establish Select Flag as assert and as deassert when the data does not match when the data matches by comparing the value of 0x3000 starting with 16 bit (1 Word) up to the length of 16 bit (1 Word) in EPC Memory.

In this way, the target flag, which is the tag's subject of the conditions of Selection Mask, will be set up as the state designated by the value of action if the conditions of tag's Selection Mask are established. Then, it will read the tags in which match to the conditions in pursuant to Select Flag, Session Target, Session Flag set up to the inventory conditions in leader.

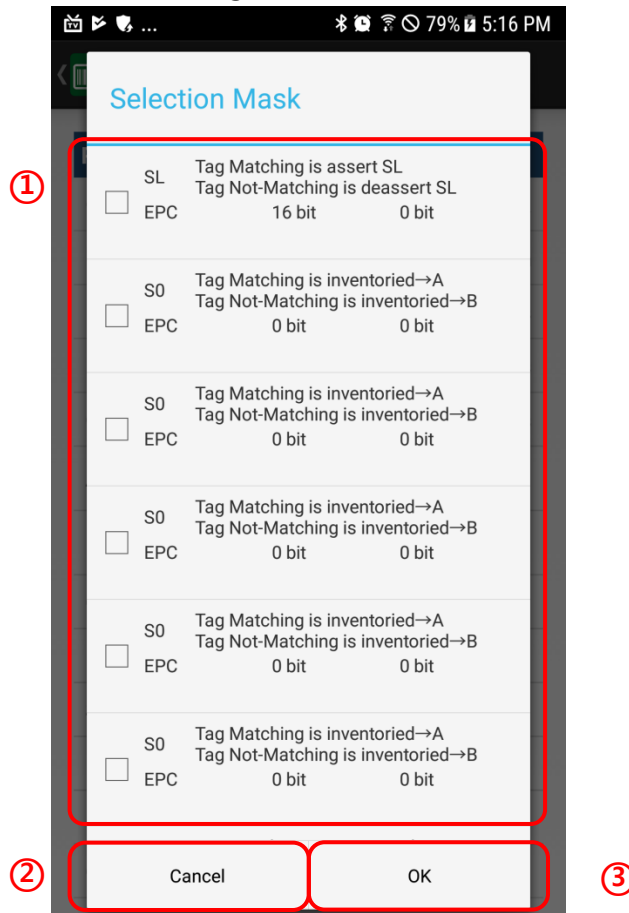
Select Flag will designate whether you will read the state of Select Flag is assert or deassert or both.

Session Target will designate Session Flag (S0, S1, S2, S3) in which conditions of session flag are to be designated.


Session Flag will designate whether you will read the state of Session Flag, designated as Session Target, is A or B or both

3.3.3. Screen Composition

Select Mask Screen consists of the following items below.

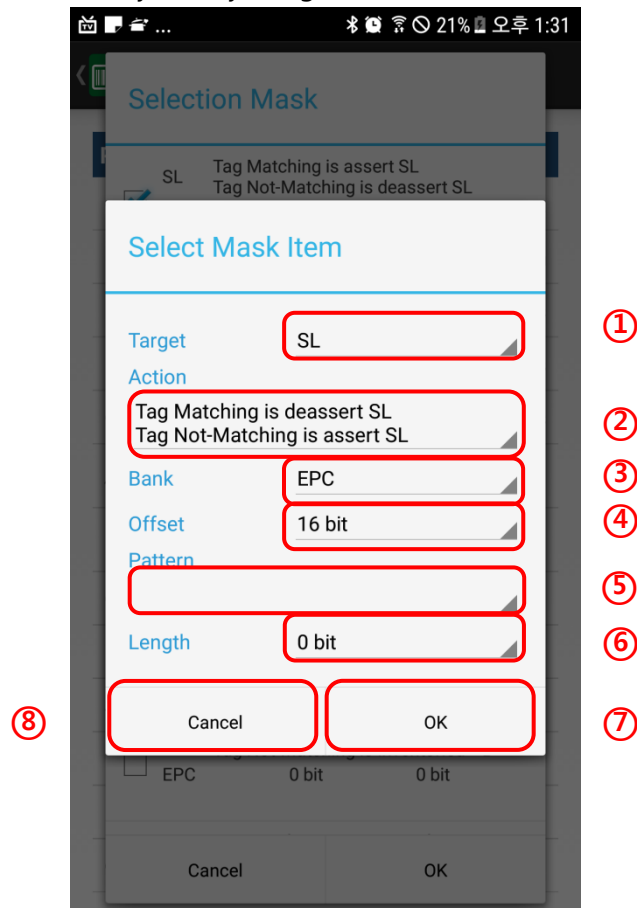



- ① **Mask List:** designate the conditions of Selection Mask. You may condition it up to 8 items. A dialog box for setting in details will appear if touching item from the Mask List whose condition you want to change. You will know more about it in Selection Mask Detail Screen Composition.
- ② **Cancel:** it goes back to the previous screen by cancelling the set-up of Selection Mask.
- ③ **OK:** it will store the conditions of the designated Selection Mask in reader

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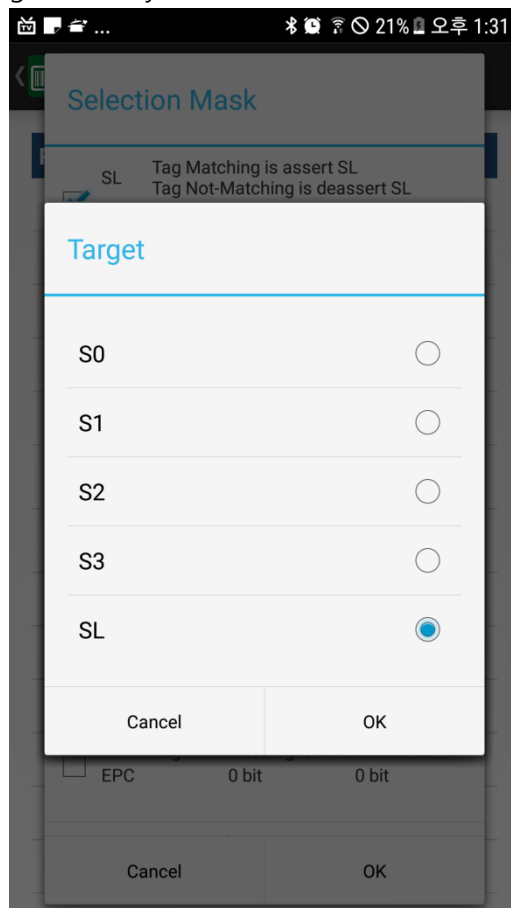
3.3.4. Selection Mask Detail Screen Composition

If you touch the conditional items of Selection Mask from the Mask List of the screen of Selection Mask, you may see the following screen in which you may designate the conditions in details of Selection Mask.



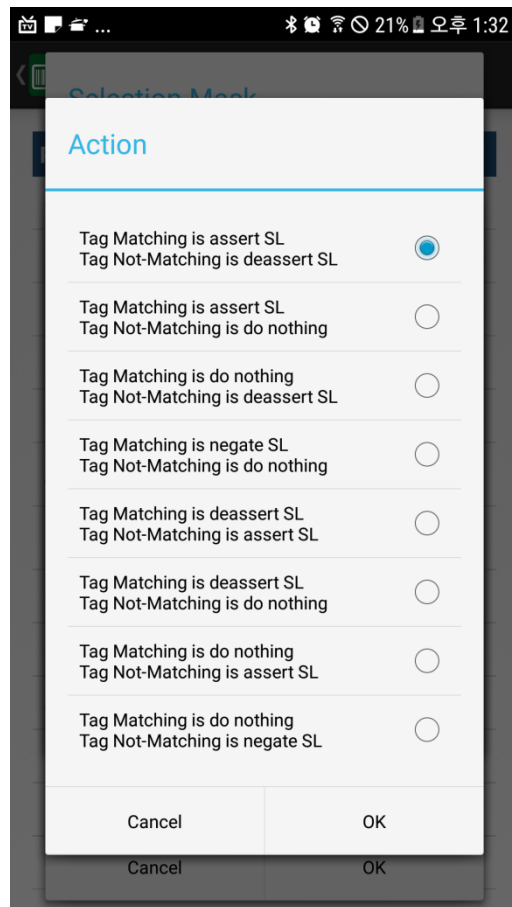
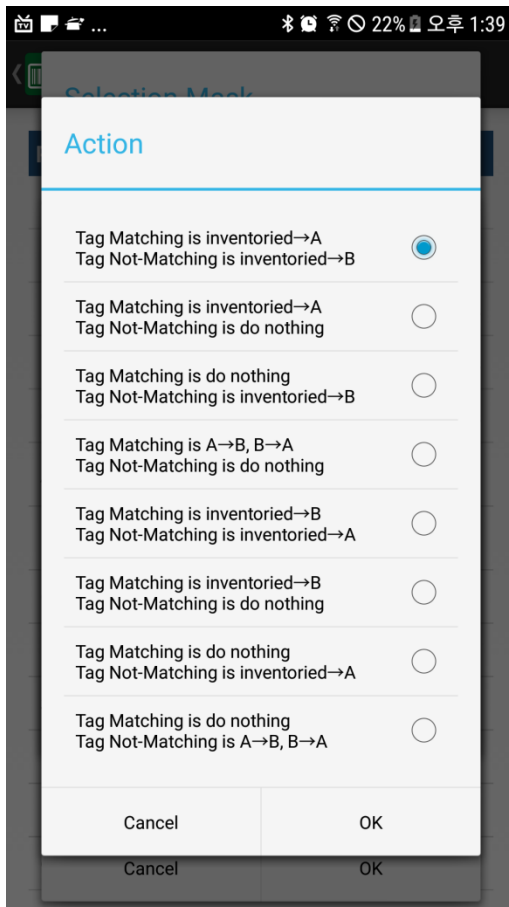
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①**Target:** designate flag in which you will store the results of comparison of Selection Mask.




Target	Description	Note
S0	It means you will write the results of comparison of Selection Mask on S0 of Session Flag.	
S1	It means you will write the results of comparison of Selection Mask on S1 of Session Flag.	
S2	It means you will write the results of comparison of Selection Mask on S2 of Session Flag.	
S3	It means you will write the results of comparison of Selection Mask on S3 of Session Flag.	
SL	It means you will write the results of comparison of Selection Mask on Session Flag.	

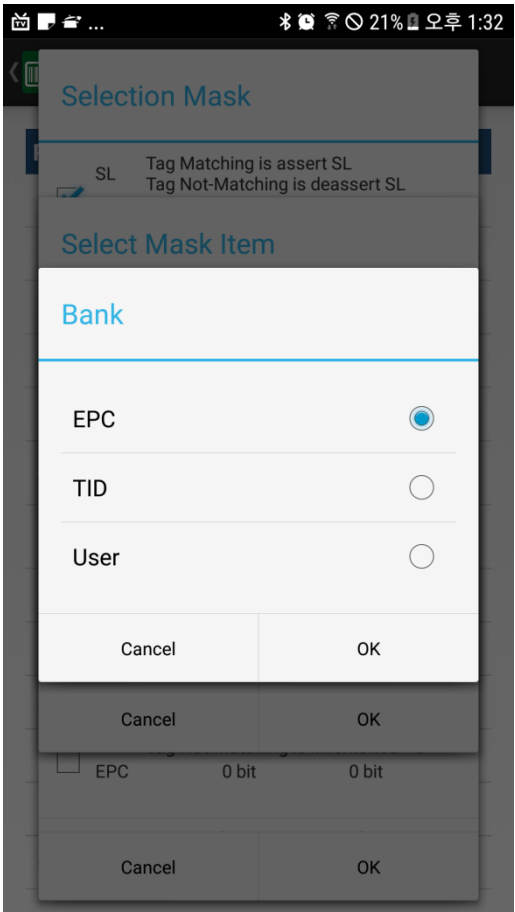
②**Action:** it will designate comparison methods and results of Selection Mask.



Refer to the explanation of Action of TagQuery.

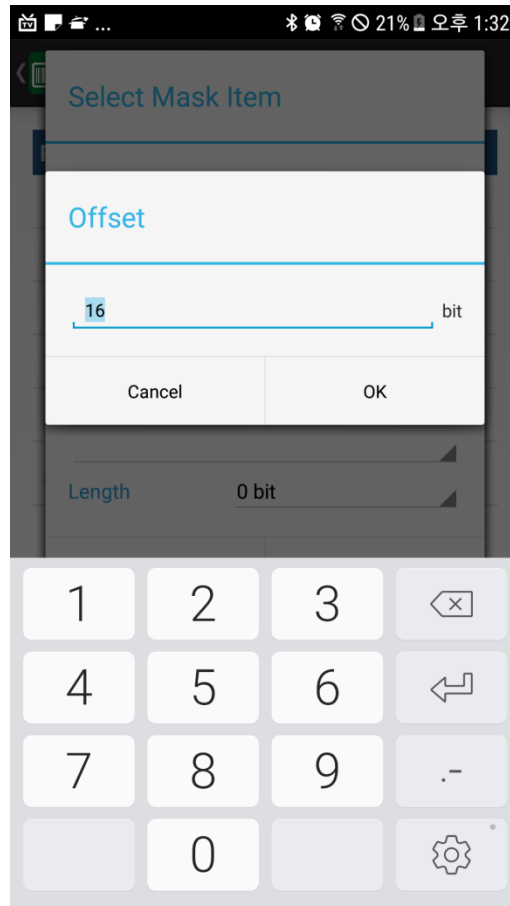
③Bank: it will designate Tag Memory in which pattern of Selection Mask is compared.

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In Bank Memory which can be compared with Selection Mask, there are EPC, TID, and User Memory

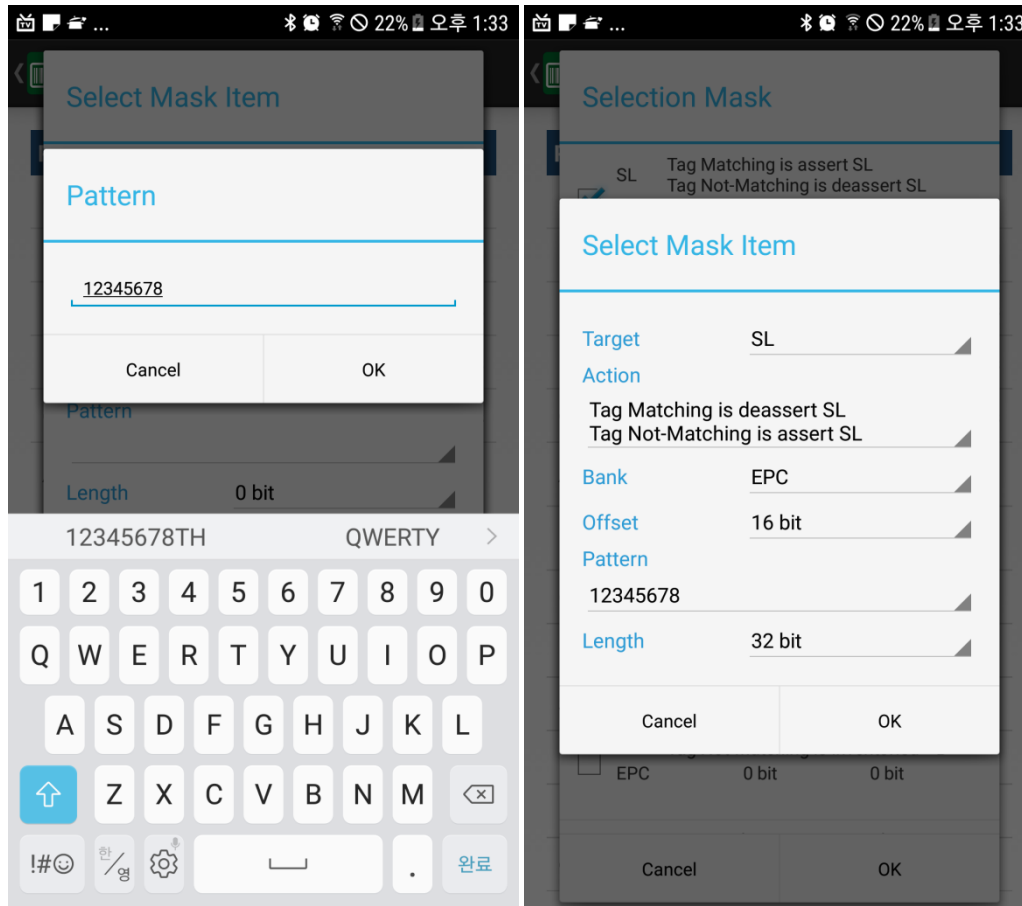
- ① **Offset:** it will designate the Start Address in which begins comparing patterns of Selection Mask in Bank by bit.




Starting Address of Selection Mask can be designated from 0 bit to maximum 255 bit.

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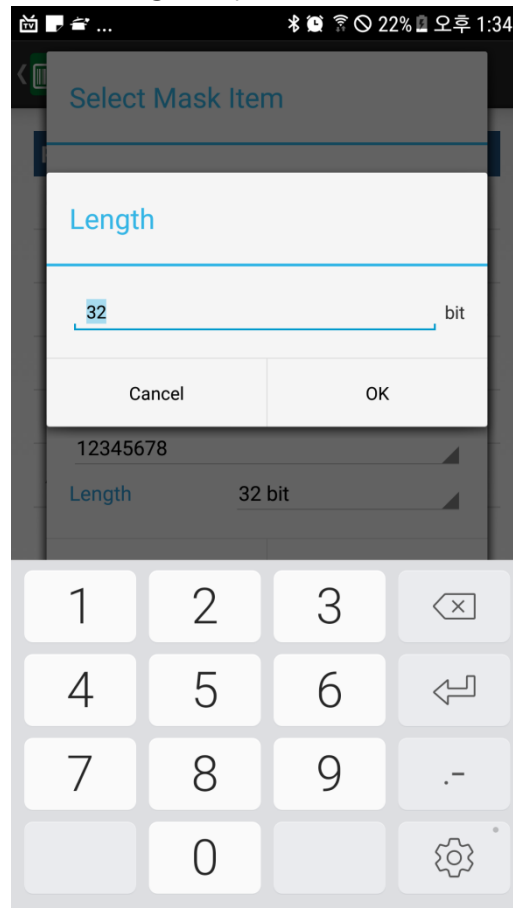
- ② **Pattern:** it will designate the value to be compared from the stating address in Bank designated by Selection Mask.



Input pattern value is Hex and you are able to input up to 32.
Length will automatically be stored when stored by OK Button.


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- ③ **Length:** it will designate the length of patterns of Selection Mask to be compared in Bank by bit



The length of Pattern per each letter is 8bit. Accordingly, you may input 255 bit as maximum.

- ④ **OK:** it will store the designated conditions of Selection Mask.
 ⑤ **Cancel:** 설 will cancel the conditions of Selection Mask.

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3.3.5. How to set a selection mask

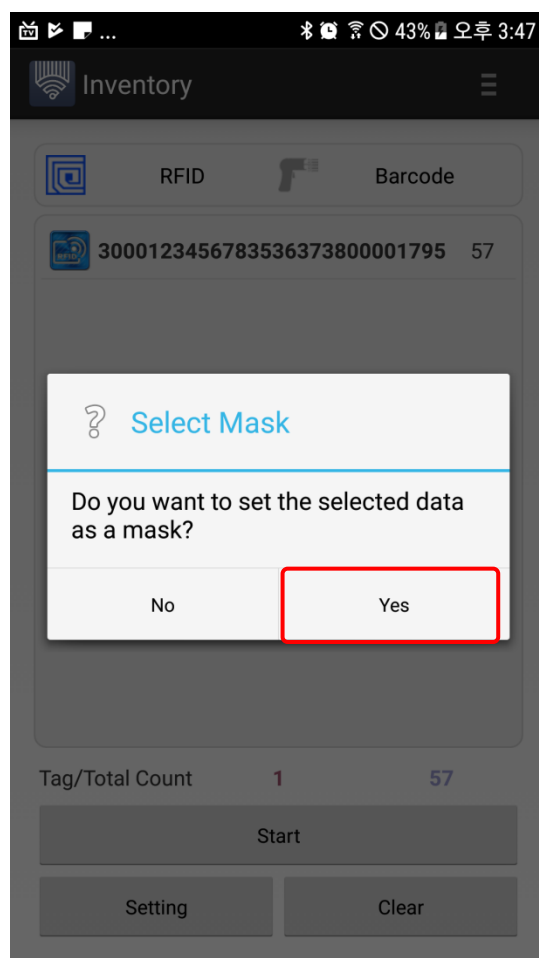
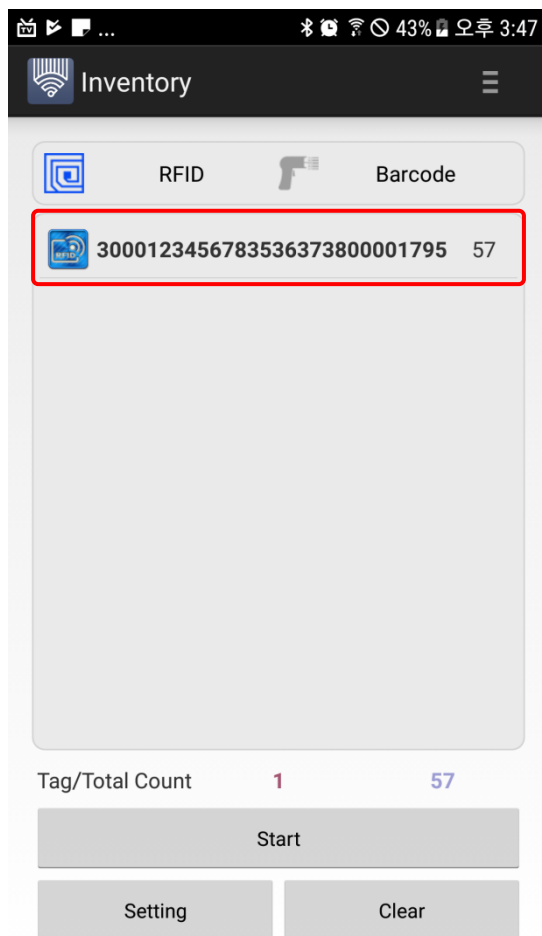
ATID READER Demo will provide you two methods to set upSelection Mask.

One is to set in details in the screen of Selection Mask by touching inventory screen, Read Memory, Write Memory, Lock Memory Screen, and etc.

Another is to simply set up Selection Mask on Inventory Screen.

Mask Button will display in bold once Selection Mask is set up


You will conduct inventory of the surrounding RFID by setting Operation Mode as RFID and touching on Start Button.



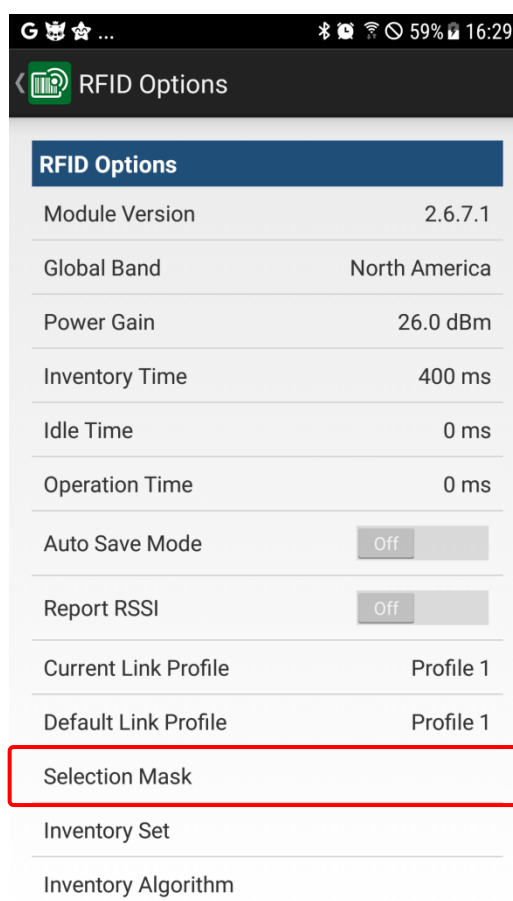
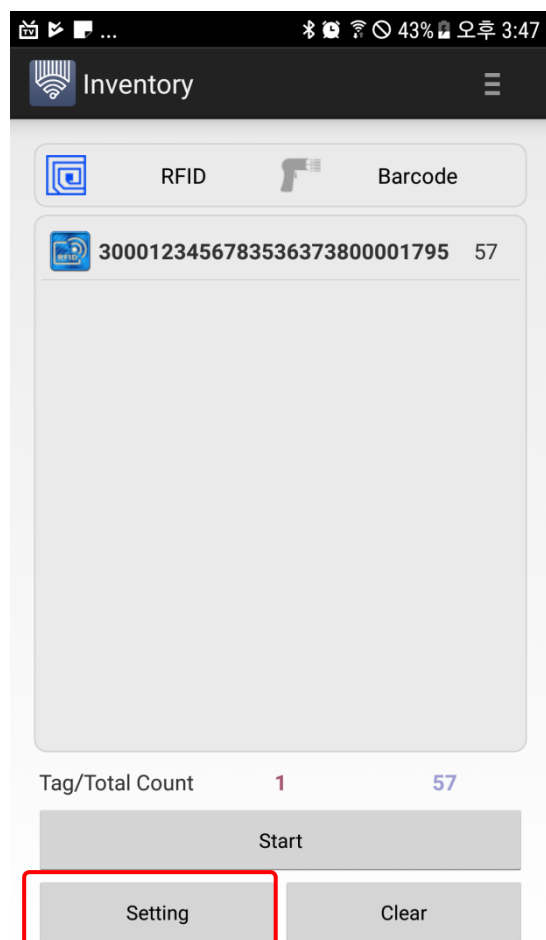
touch on RFID tag long (about 3 seconds) intended to set Selection Mask.

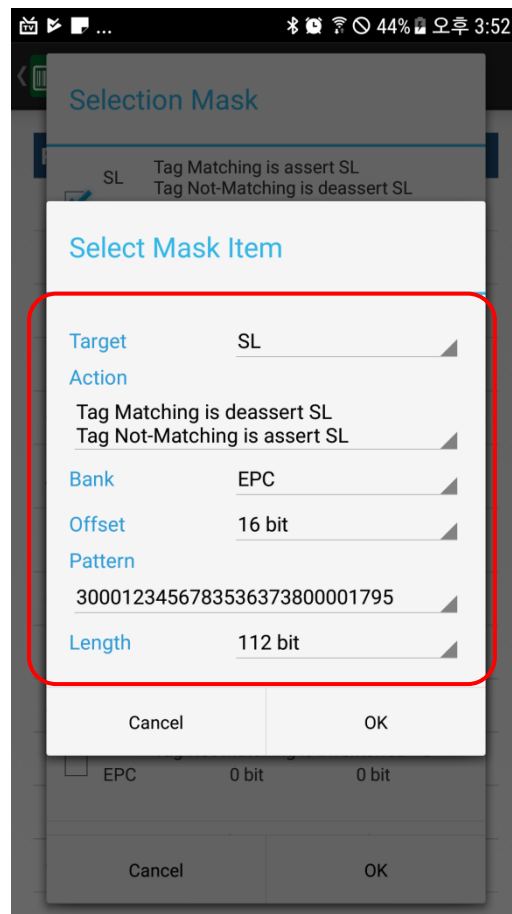
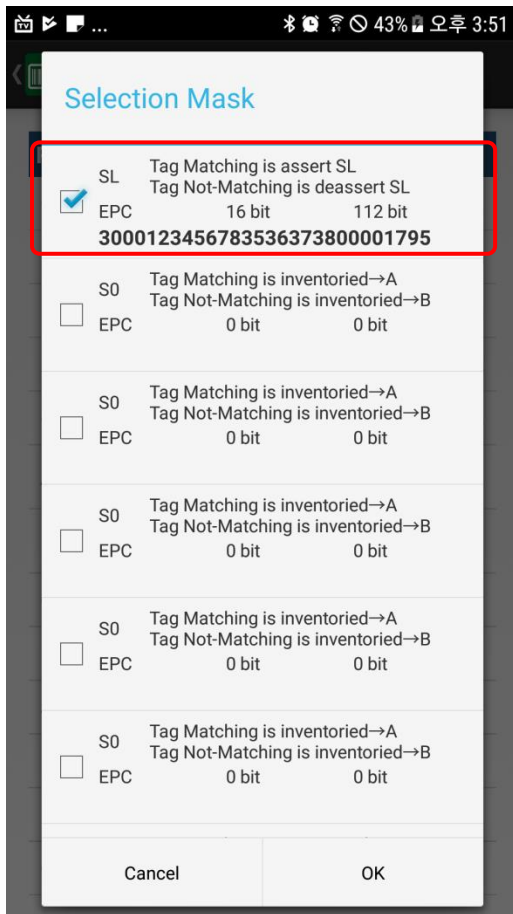
And then, there will be a dialog box asking if you want to set a Mask with the selected data.

touch on Yes Button if you want to set a Mask with the selected data.

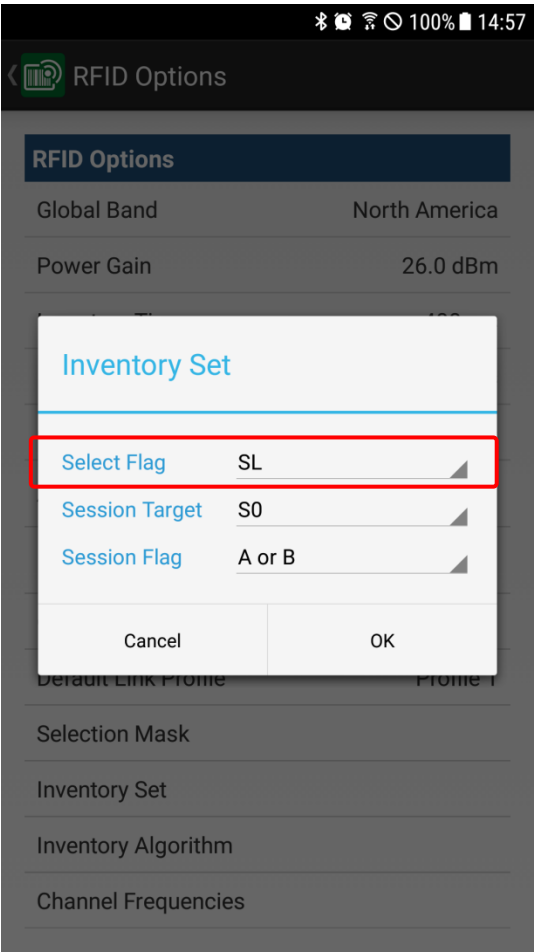
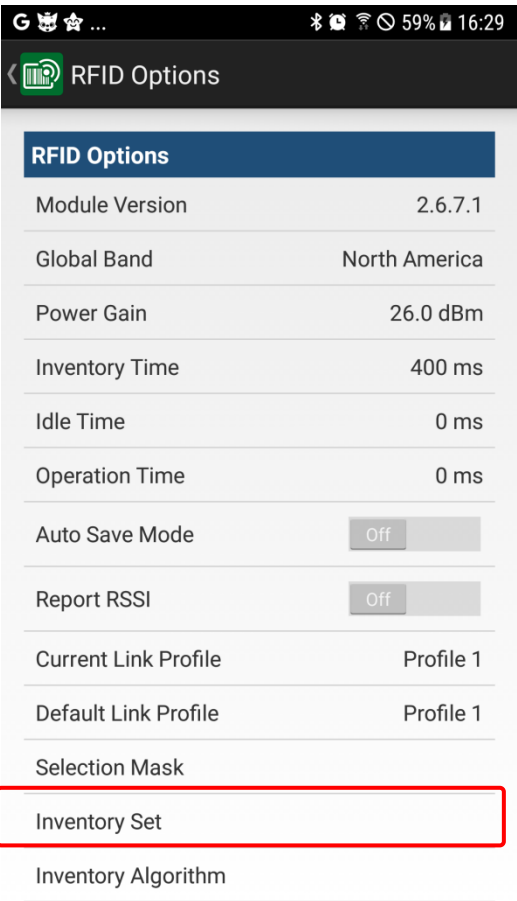
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You can check that the Selection Mask is set in the value of RFID selected on the screen of inventory if you verify after moving to the Selection Mask by touching on the Settingbutton.






You may set Selection Mask Target as SL (Select Flag) basically if you click the Select Mask after selecting the RFID Tag on Inventory Screen.

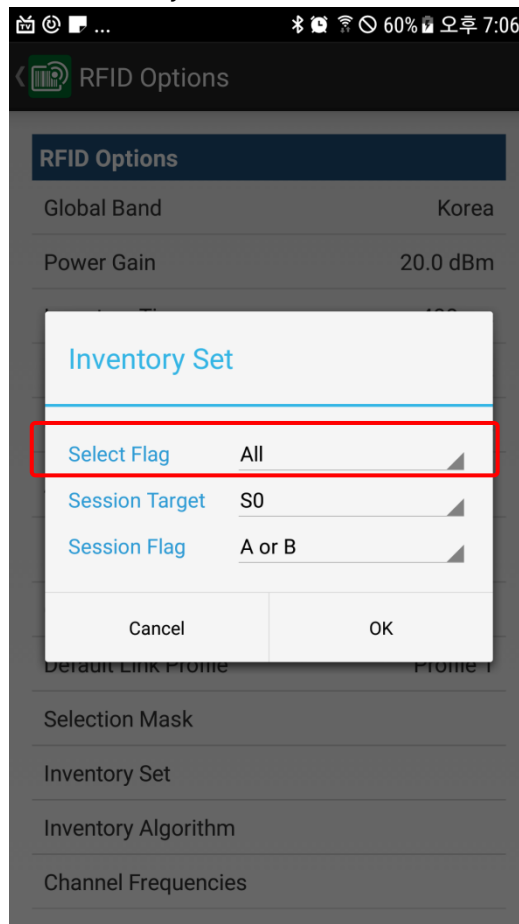
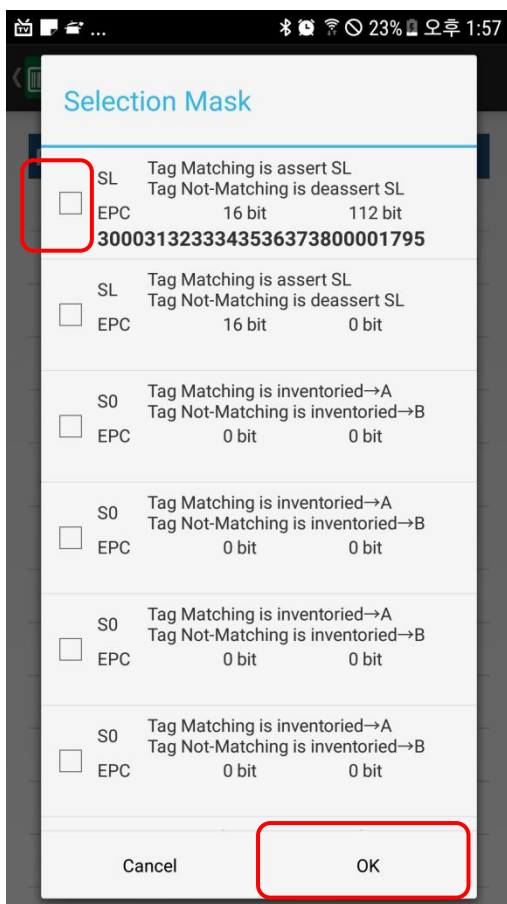



You will touch OK button after clicking on Select Flag from Inventory Set.

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3.3.6. How to disable selection mask

In ATID READER Demo, the method for disabling Selection Mask is thatundo the check box on Selection Mask Screen, touch on OK button, and change Select Flag from Inventory Set from SL to All.



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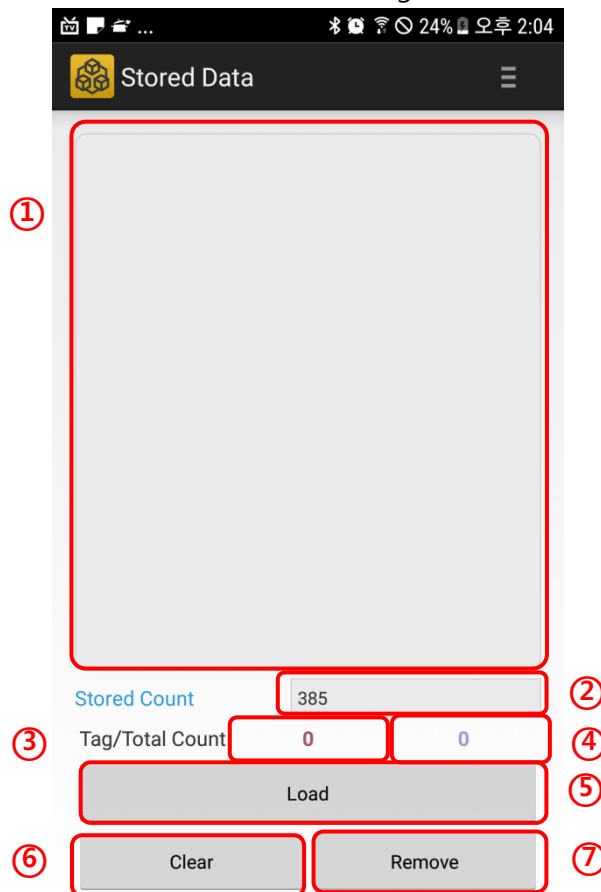
3.4. Stored Data

Stored Data Demo is to read RFID tag read in when the equipment is not connected to the Demo, the data whose barcode stored in the memory of the equipment, and the data stored in the internal memory by reading RFID tag and barcode when Auto Save Mode in Inventory Demo is on


※ this function will not be provided in ATS100 and ATD100.

3.4.1. Screen Composition


The Demo Screen of Stored Data consists of the following items shown as the figure below



- ① **Data List** :it displays the data loaded from the equipment
- ② **Stored Count** :it displays the number of the data stored in the equipment
- ③ **Data Count** :it displays the number of the data on Data List. As the overlapping data displays its number on Data List, it will display as one in Data Count.
- ④ **Total Count** :it displays the number of the data read in from the equipment. This number should be identical of the Stored Count.
- ⑤ **Load** :it reads the data from the equipment
- ⑥ **Clear** :it removes Data List and initializes Data Count andTotal Count into default value (0)
- ⑦ **Remove** :it removes the selected data from the Data List

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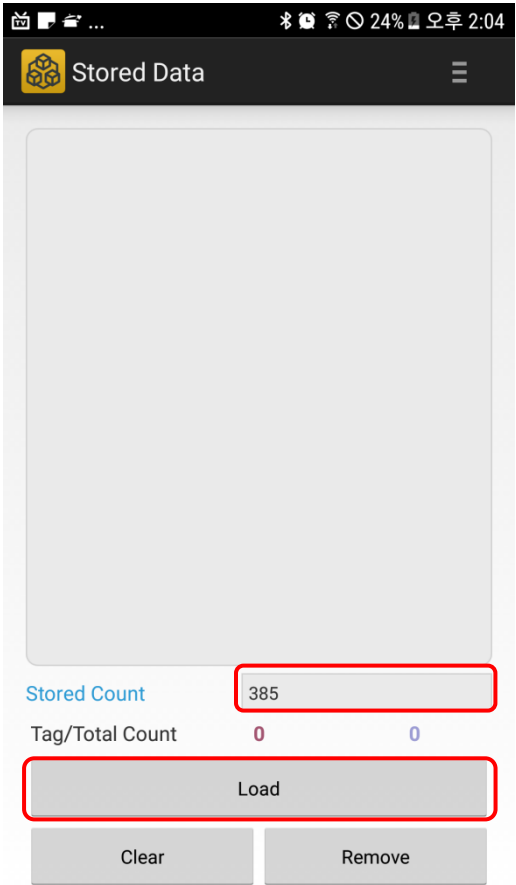
- ⑦ **Remove:**it removes all the data stored in the equipment.


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3.4.2. How to load stored data

check Stored Count on the screen of Stored Data. You are able to display the data stored in the equipment on the screen if any.

Touching theLoad button makes it possible to begin reading data from the equipment.

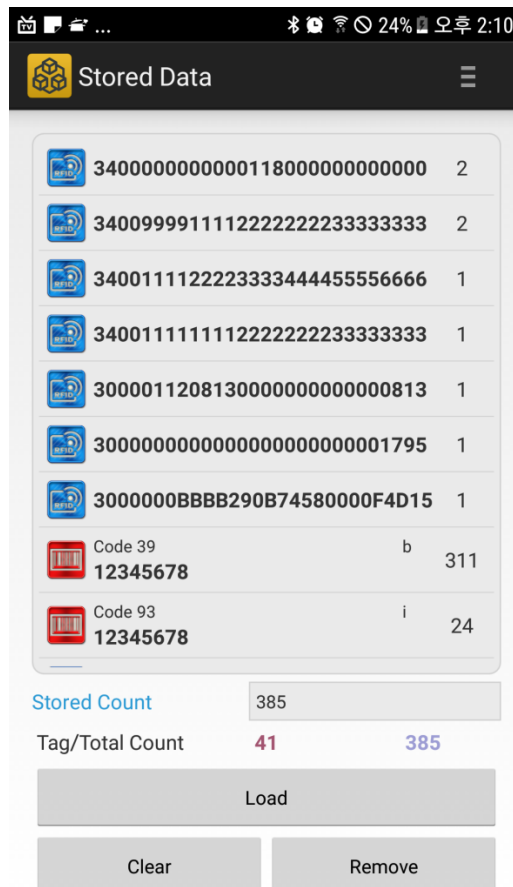
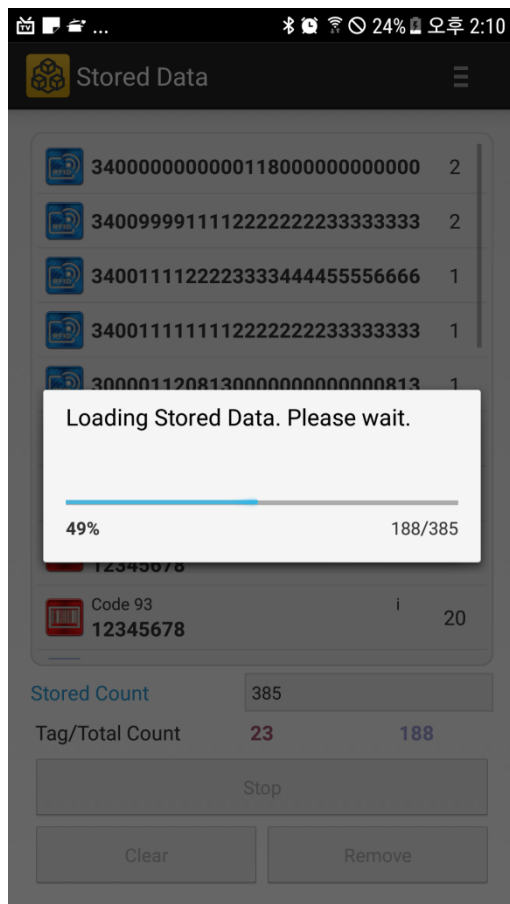



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A dialog box called progress bar will display once starting to read data from the equipment.

You will see the situation reading data from the equipment through progress bar.

Once reading of all stored data is complete the dialog box, progress bar, will disappear, all the data read in will output on Date List, and updating of Data Count and Total Count will be made.



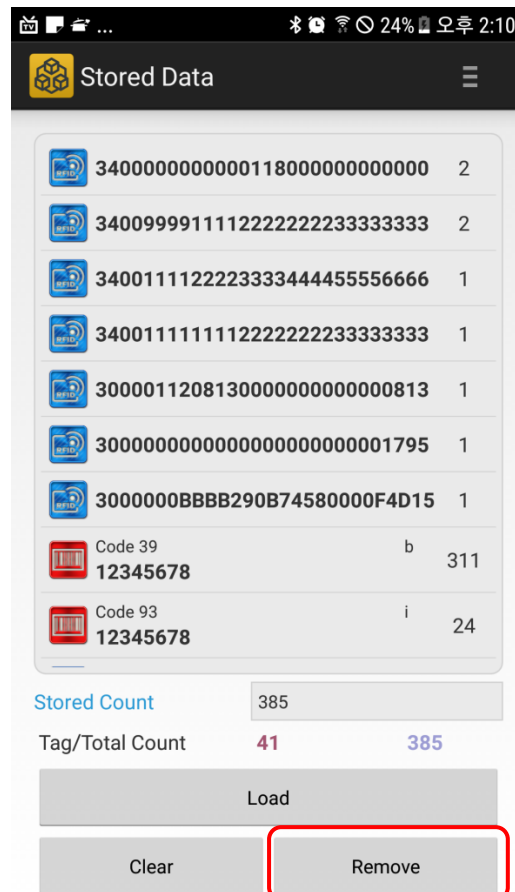
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3.4.3. How to remove all stored data

remove all stored data in the equipment if it is read in from the equipment.

On Stored Data Screen there is a way to remove all the data stored in the equipment.

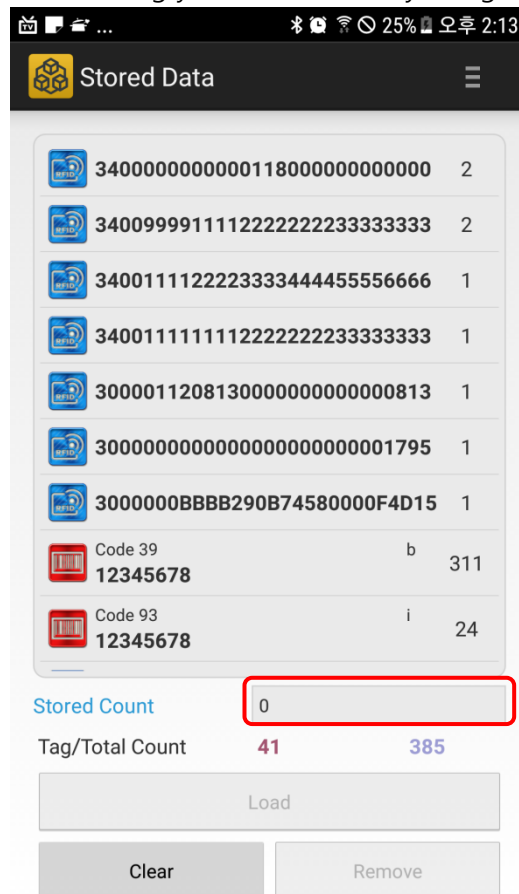
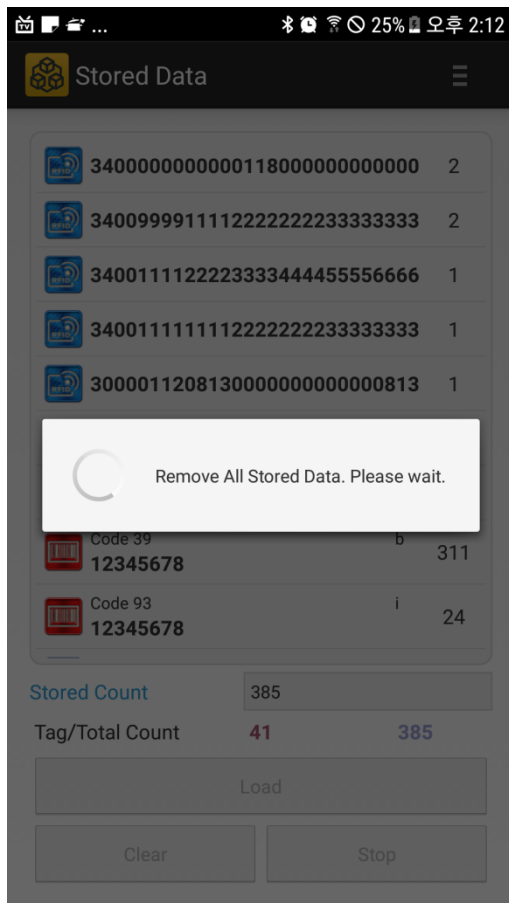
All stored data in the equipment will be removed by touching on the Remove button at the bottom right of the screen.



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Time for removing the stored data will be different depending on the quality of the stored data.

Progress bar will display during the removal of the data, informing you that it currently being deleted.



The progress bar will disappear once all the stored data is deleted.

You will also check that the value of Stored Count becomes "0."

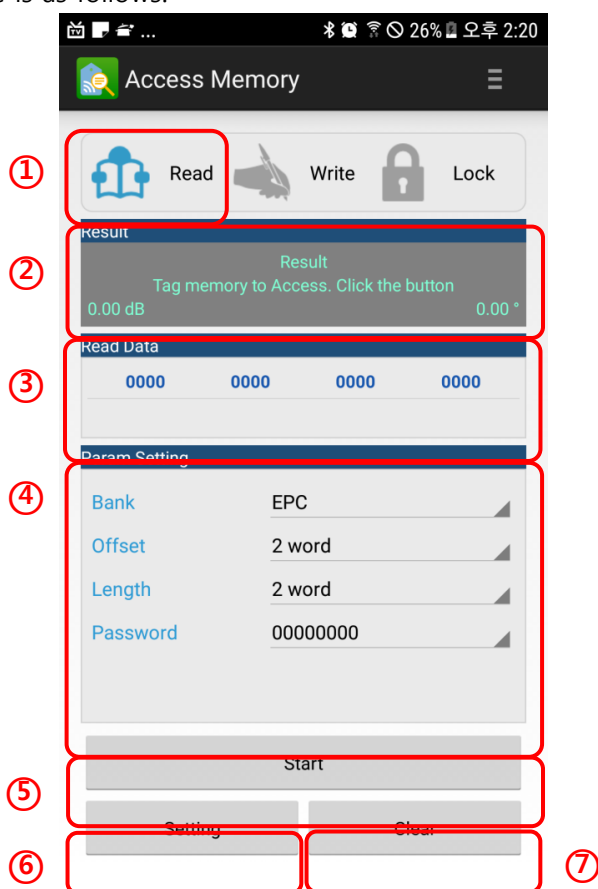
3.5. Access Memory

3.5.1. Read Memory

In Read Memory Demo, you can use the function to designate and read RFID tag memory in the functions of RFID (UHF)

3.5.1.1. Screen Composition


Read Memory's structure is as follows.



- ① **Action Mode:** it sets the operation mode of Read, Write, and Lock MemoryAccess.
- ② **Result:** it outputs the EPC value of RFID Tag accessed by the equipment, the result of operation after the equipment reads RFID Tag, RSSI, and Phase.
- ③ **Read Data:** it outputs the data read by the unit of Word if the equipment reads RFID Tag.
- ④ **Param Setting:** it sets for Read Memory.
- ⑤ **Start:** it helps the equipment conduct the function of Read Memory
Once Read Memory starts working, it will be changed to Stop Button.
- ⑥ **Setting:** it moves the screen in which you can set the Option relating to RFID movement.
- ⑦ **Clear:** it initializes Result, Read Data, and etc.

3.5.1.2. How to change read memory option

In Param Setting, you can set the necessary information for Read Memory.

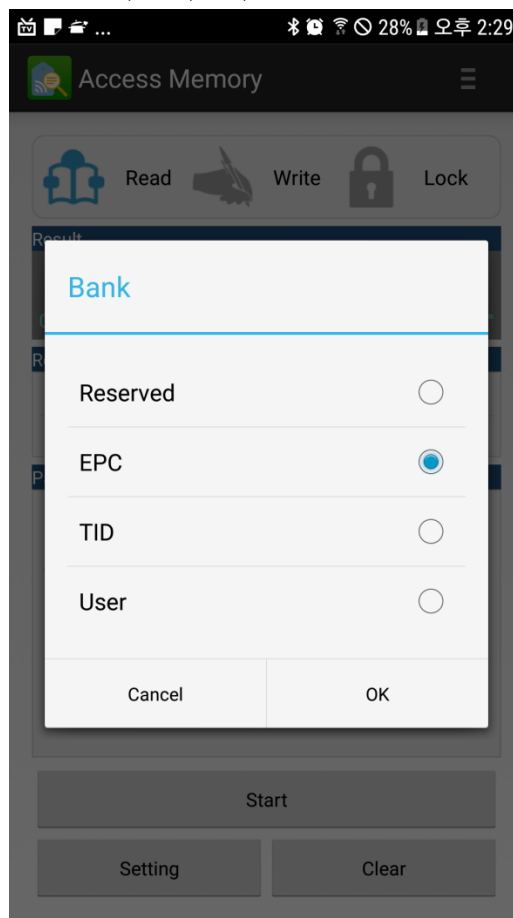
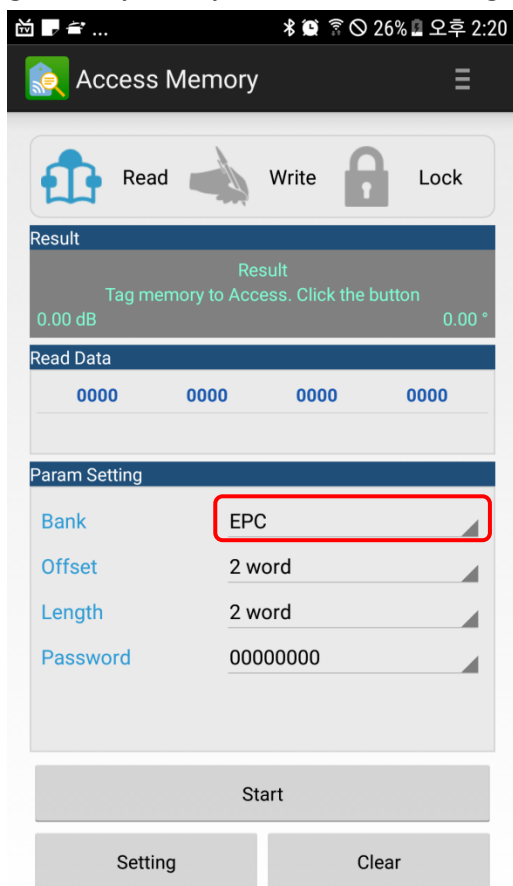
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For Read Memory, designate the Memory Bank of Tag to read, addresses to read in the designated Memory Bank, and the length of the Memory to read with the unit of Word.

3.5.1.3. Bank

Bank Option sets a memory of RFID Tag by performing Read Memory.

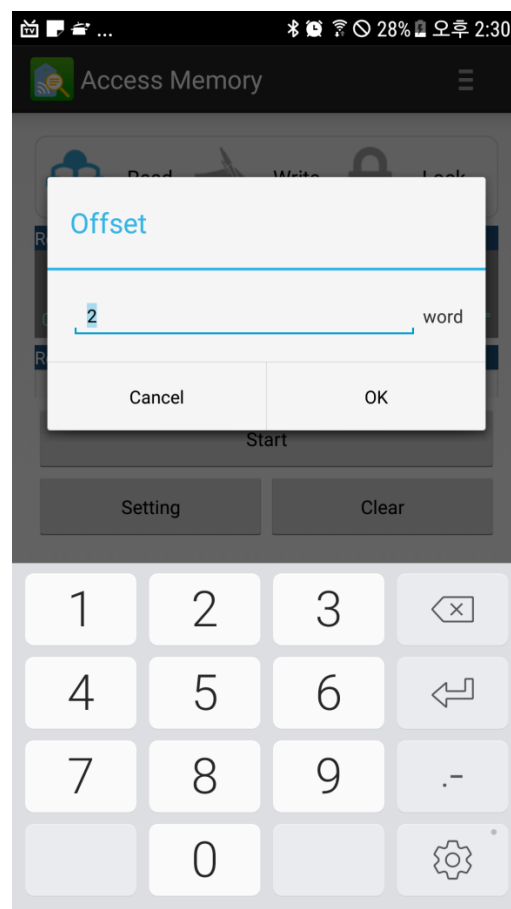
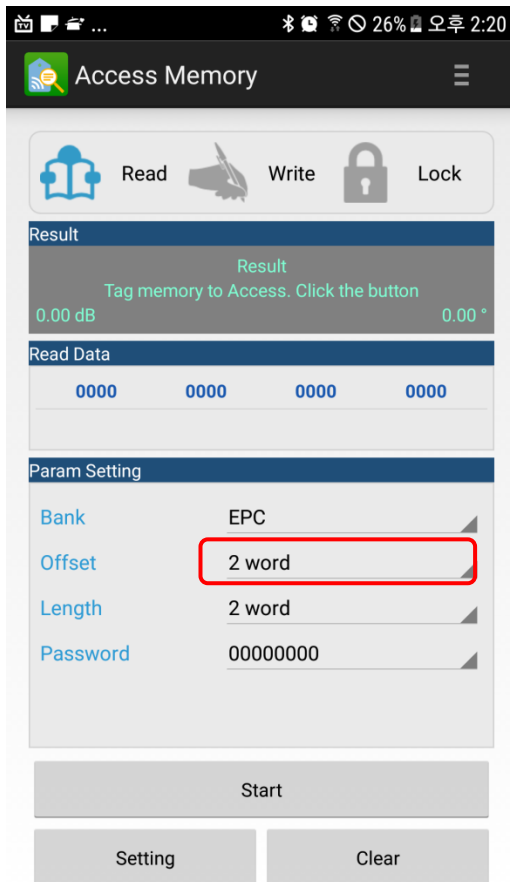
Tag Memory Bank you can read in the Tag consists of Reserved, EPC, TID, and User




3.5.1.4. Offset

Offset designates the start address to begin reading the data of the designated Bank by performing Read Memory.

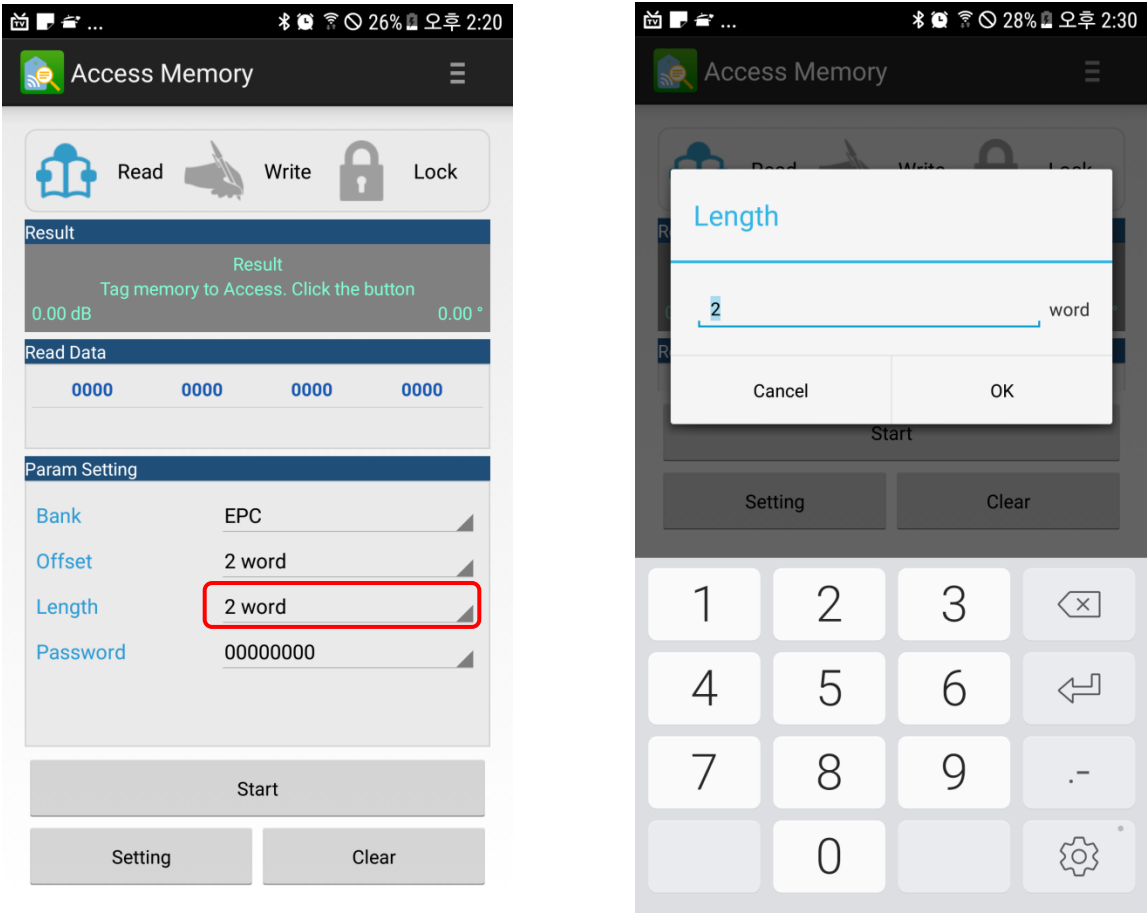
The unit to designate is WORD.




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3.5.1.5. Length

Length Option designates the length to read the data of the designated Bank by performingRead Memory
The unit to designate is WORD.

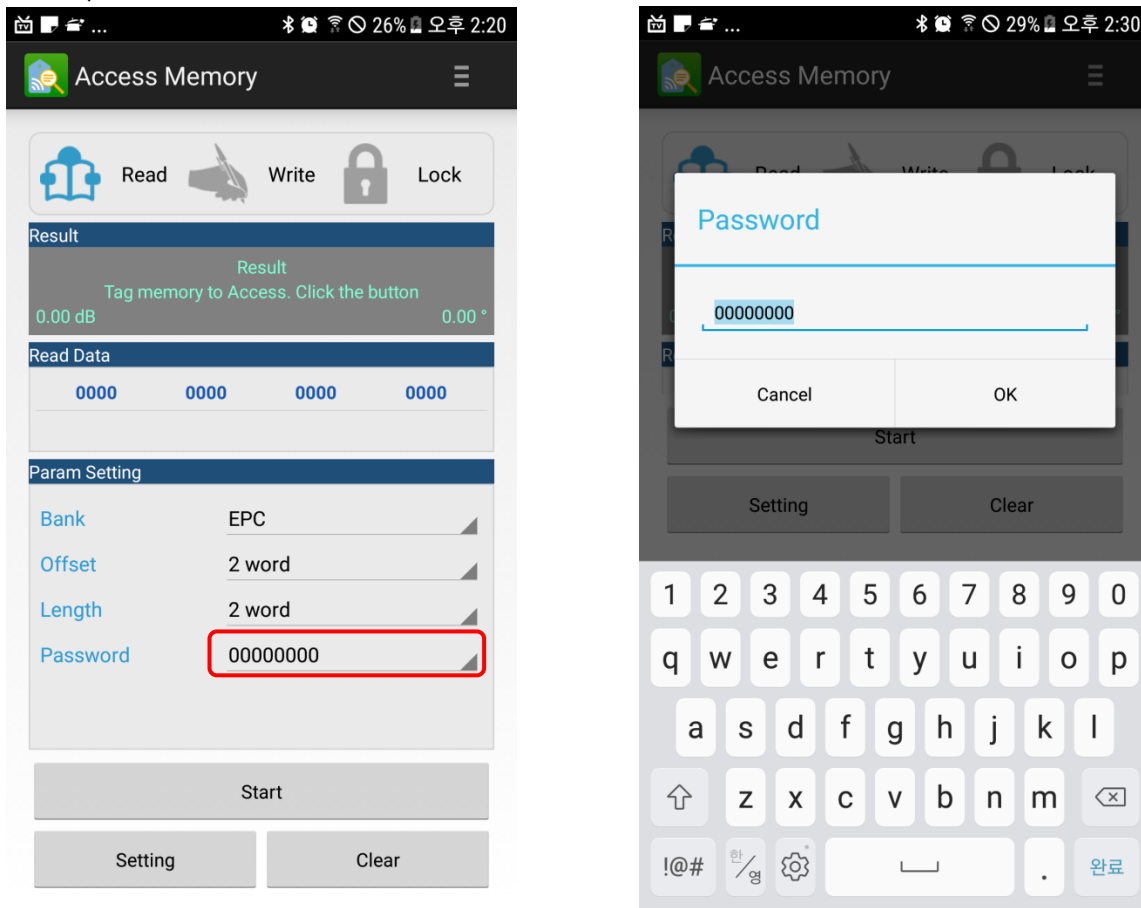


※The maximum length of the data which is able to read once by using Read Memory is 64WORD.


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3.5.1.6. Password

Password option is set in the equipment to access to the tag if RFID tag intending to perform Read Memory is locked up

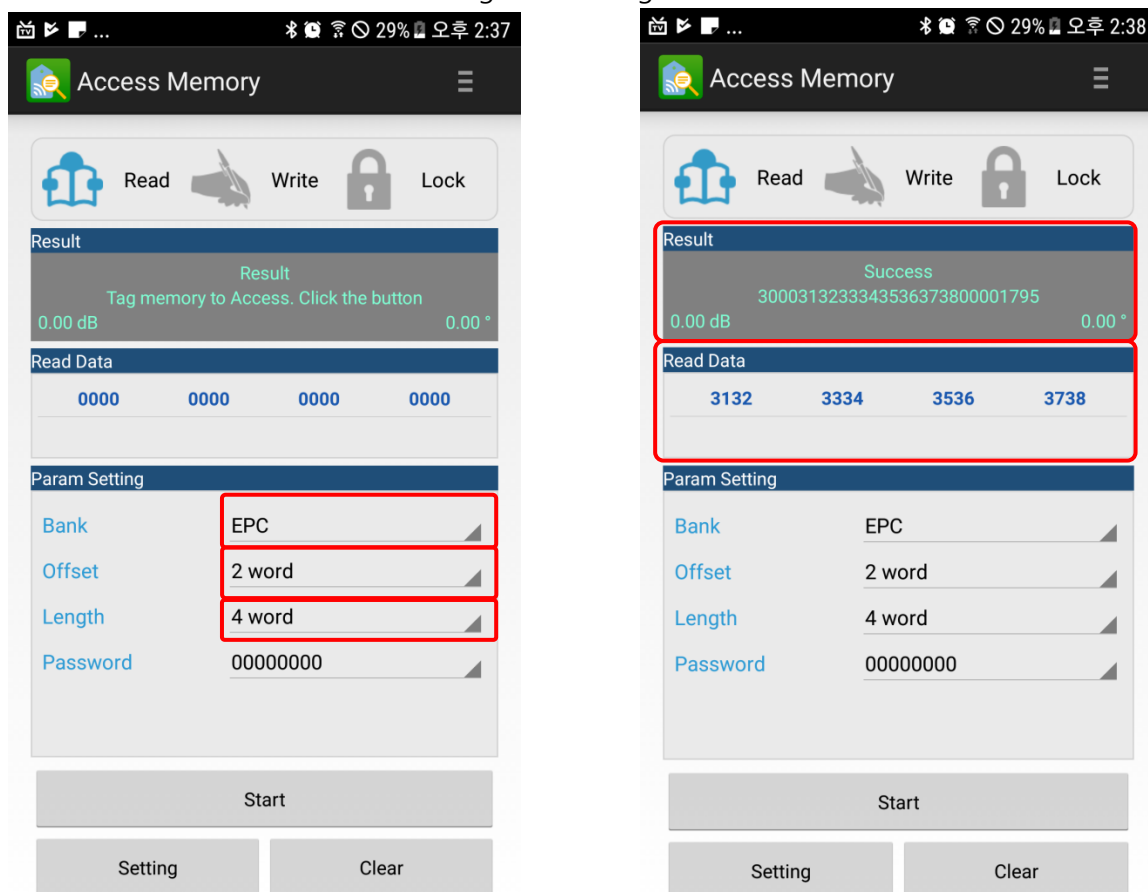


You will face a situation you may not read the data when RFID Tag is locked up and if it is a reserved bank. Set a password identical to Access Password and perform Read Memory in the tag if you want to read the data of the Reserved Bank. Consequence of performing Read Memory if the password is different from Access Password stored in RFID Tag.

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It will go to Access Memory from main menu if you set Selection.


choose memory bank as EPC to read RFID tag by Read Memory Parameter on the screen of Read Memory and fit the start address as 2WORD and the length of reading as 4WORD.



Begin reading Tag Memory by touching Start button when you are ready to read RFID tag memory.

If you read the Tag memory properly, you will print out the EPC value accessed to in the scope of Result, the result of movement after reading RFID tag, RSSI, and Phase

Also, you will print out the memory value of the tag read to Read Data

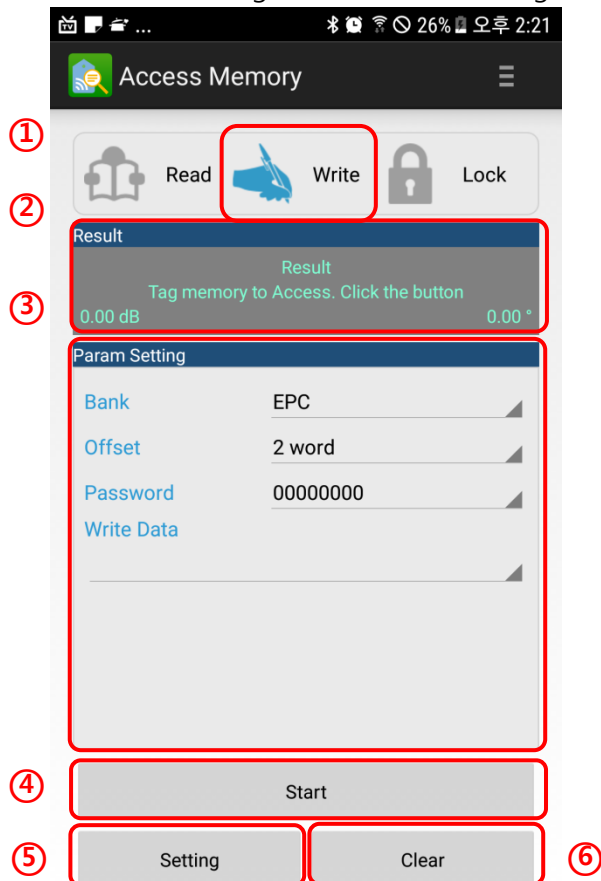
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3.5.2. Write Memory


In Write Memory Demo, you can use the function which enables to data in the designated memory for RFID tag among the functions of RFID (UHF)

3.5.2.1. Screen Composition

Write Memory Demo consists of the following items shown in the figure below



- ① **Action Mode:** it sets the operation mode for Read, Write, and Lock MemoryAccess.
- ② **Result:** it will print out the EPC value of RFID tag accessed to by the equipment, the result after the equipment used the data of RFID tag, RSSI, and Phase.
- ③ **Param Setting:** it will set for Write Memory
- ④ **Write:** it will enable the equipment to perform the function of Write Memory.
It will go to Stop button once Write Memory begins to work
- ⑤ **Setting :** it will move into the screen in which you can set the option relating to RFIDoperation
- ⑥ **Clear:** it will initialize results.

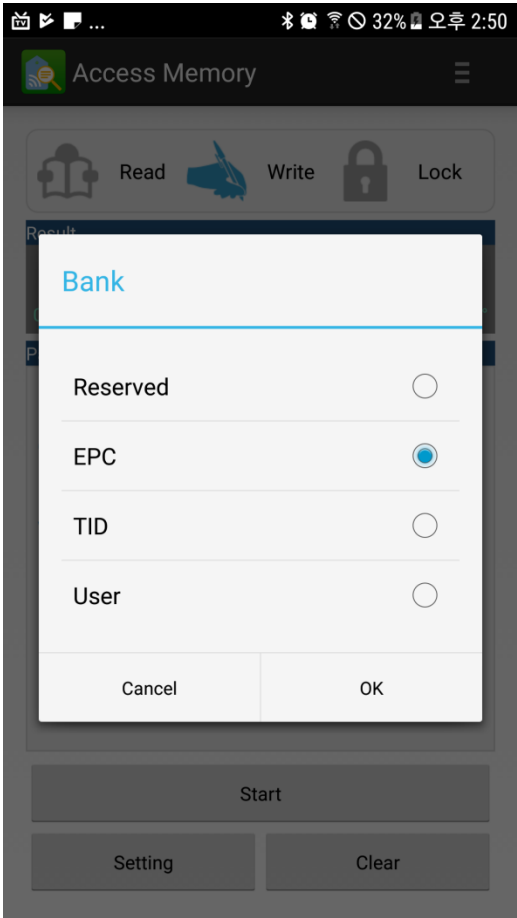
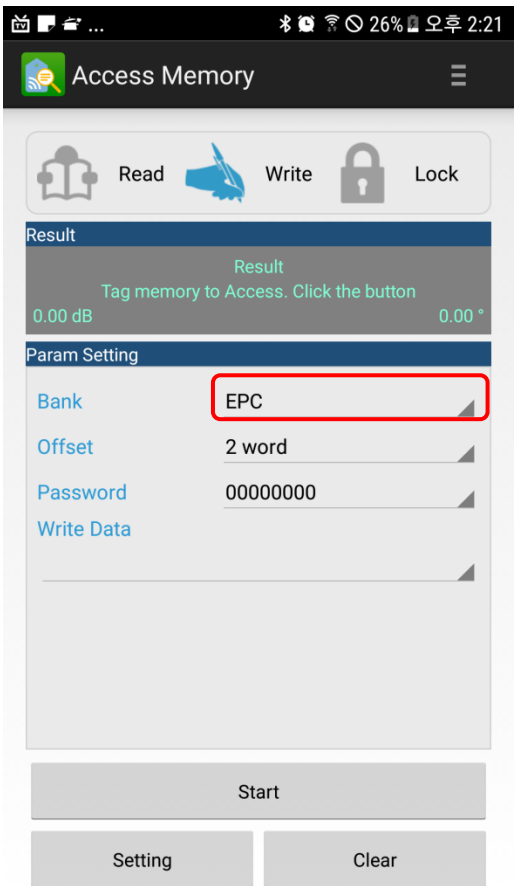
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3.5.2.2. How to change write memory option

Param Settings is able to set the necessary information forWrite Memory
For Write Memory,designate the unit of Word for the memory bank for the tag intending to its data and the start address to be used in the designated bank and the data intending to use as 4Word

3.5.2.3. Bank

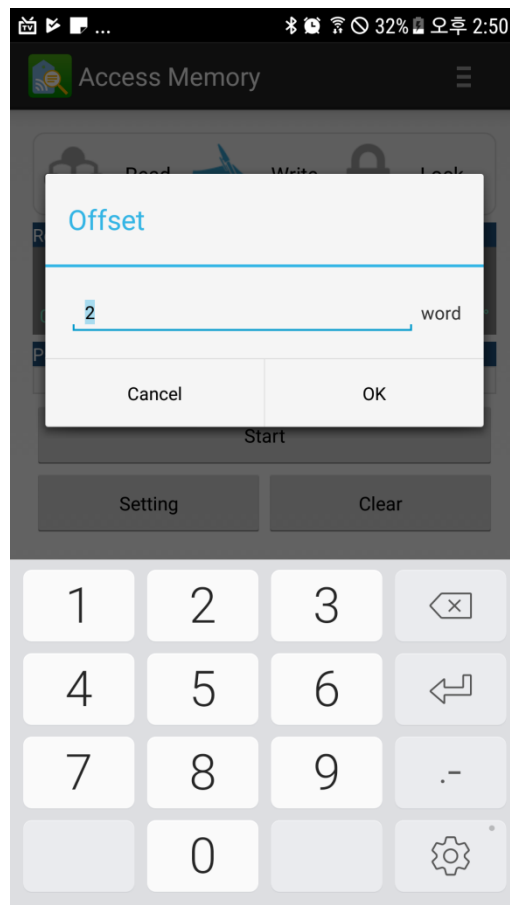
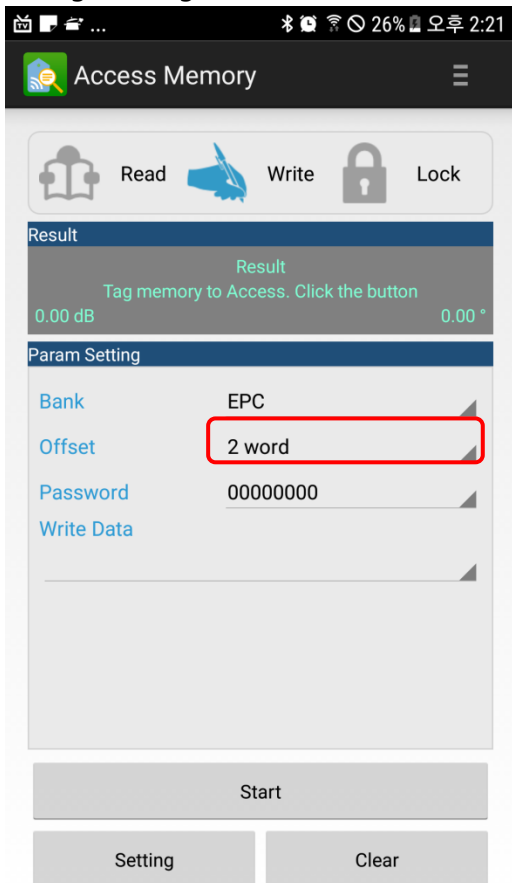
In Bank Option, you can set use data for a RFID tag memory by conductingWrite Memory.
The memory banks in which you can use the data in tag includes Reserved, EPC, TID, and User.




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3.5.2.4. Offset

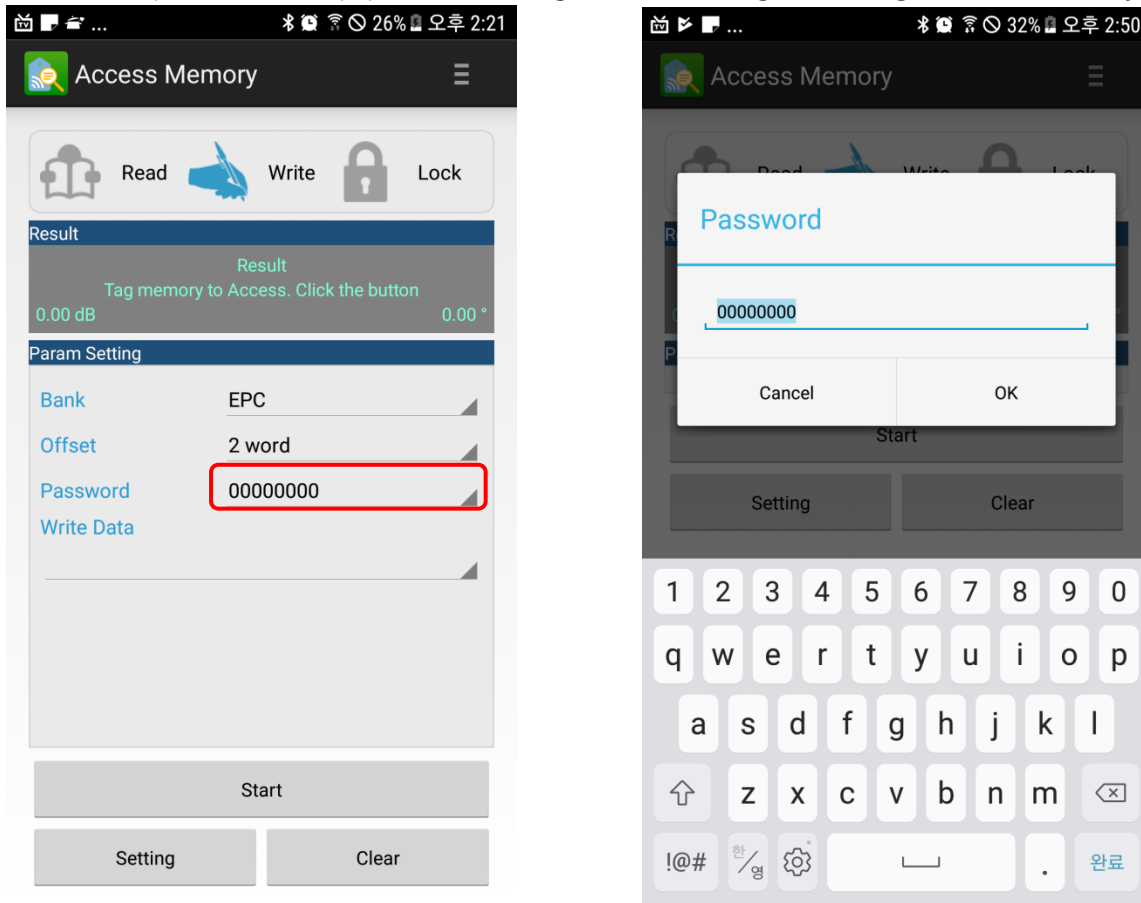
Offset option will set the start address in the designated memory bank by performing Write Memory. The unit enabling to designate is WORD.



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3.5.2.5. Password

In Password option, set the equipment intending to access to tag if RFID tag for Write Memory is locked up.



You cannot use data in the bank locked when RFID tag is locked up.

Set a password identical to Access Password and then perform Write Memory in the tag if you want to use the data in the specific designated memory which is in lock mode. The consequence of performing Write Memory will be in failure if the password is different from Access Password stored in RFID tag.

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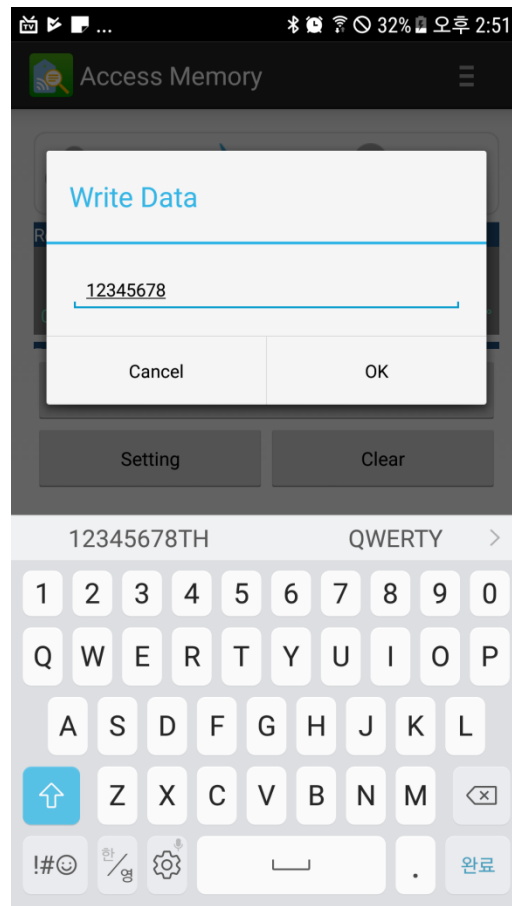
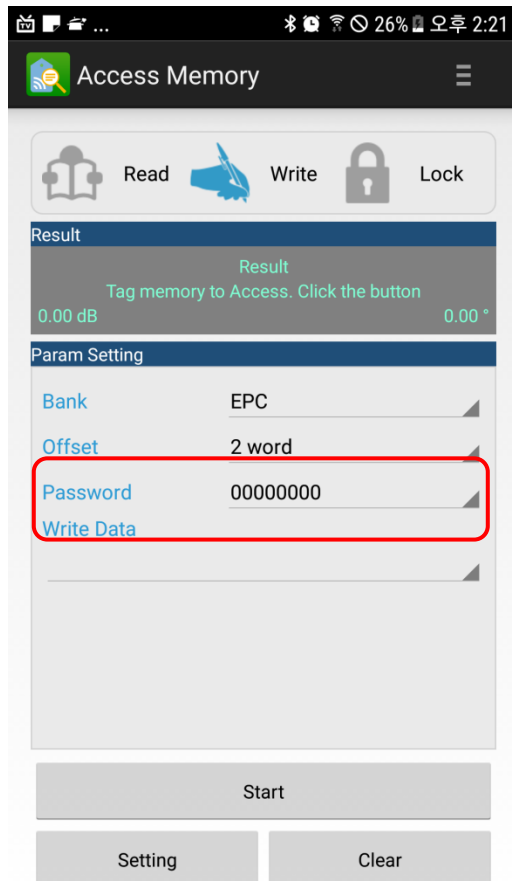
3.5.2.6. Write Data

Write Data Option will input data in the designated bank by performing Write Memory.


The data input is HEX value.

The data input shall be 4WORD as the unit (4 words).

value

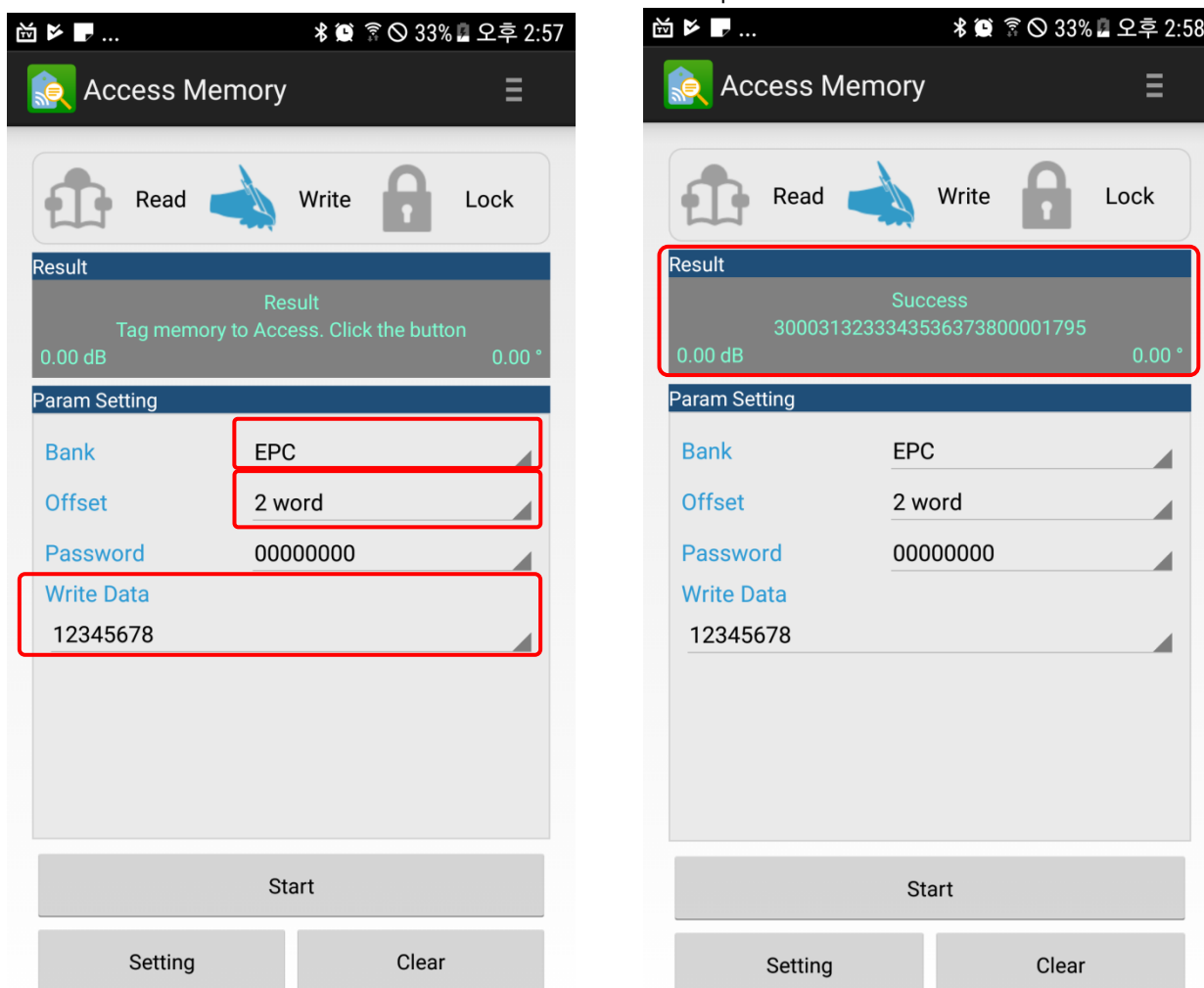


※ the maximum length which you can use once with Write Memory is 32WORD (32 words)

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If Selection Mask is set,move to Access Memory in the main menu.


select the memory bank which you want to use in EFID tag from Param Setting on the screen of Write Memory with EPC and set the start address with2 WORD. And theninput the data value in Write Data



If you are ready to use the data in the memory of RFID tag, write data in the memory of the tag by touching Write button.

If data is properly written in the memory of the tag,print out consequence of access in the scope of Result, EPC of the tag accessed to, RSSI, and Phase

If data in the scope of EPC is changed from the value of the previous EPC, you should unlock the set-up of Selection Mask as it differs from the value of EPC set in Selection Mask.

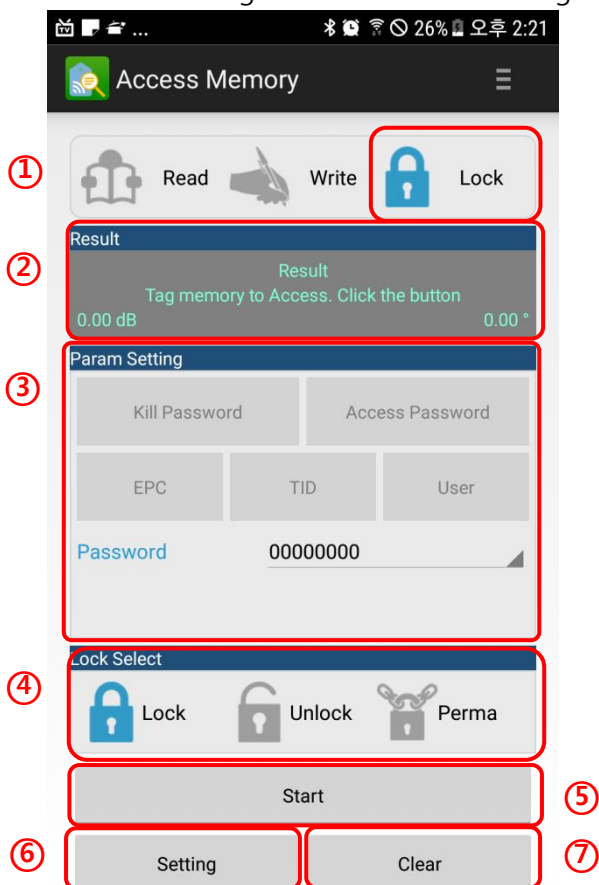
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3.5.3. Lock Memory


In Lock Memory Demo, you can use the function to lock or unlock in the functions of RFID (UHF).

3.5.3.1. Screen Composition

Lock Memory Demo consists of the following items as shown in the figure.



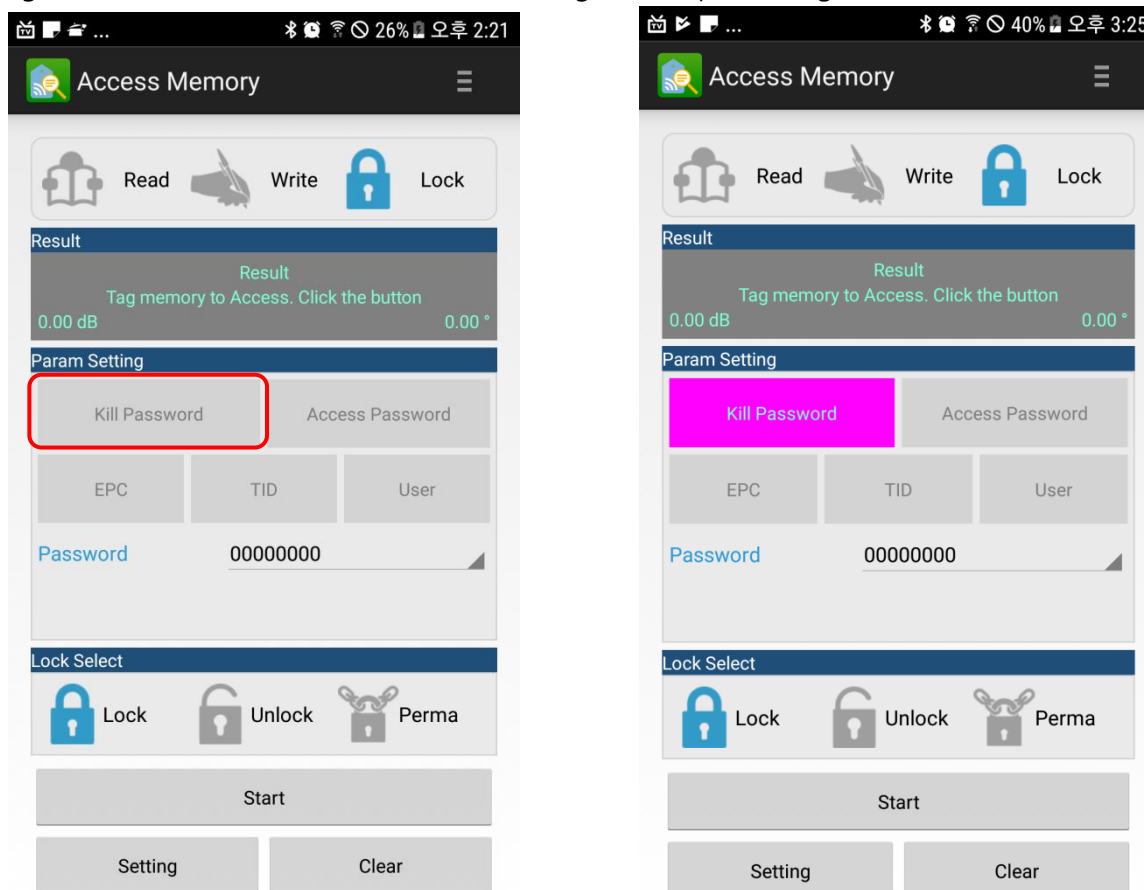
- ① **Action Mode:** it sets the operation mode for Read, Write, and Lock MemoryAccess.
- ② **Result:** the equipment will print out the results of lock or unlock action of RFID tag as message.
- ③ **Param Setting:** It sets for Lock Memory
With 2WORD Password, it setsAccess Password for RFID tag.
It will be stored in the scope of Access Password of RFID Tag inReserved Bank
- ④ **Lock Select:** It enables the equipment to select an action against the tag such as lock, unlock, or permanent lock.
- ⑤ **Start:** it enables the equipment to carry out the selected function of lock, unlock, or permanent lock from Lock Select.
- ⑥ **Setting :** It enables to move to the screen on which you can set an option relating to actions of RFID
- ⑦ **Clear:** it initializes Result.

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3.5.3.2. How to change lock memory option

3.5.3.2.1. Kill Password


Kill Password option is offset in the reserved scope of RFID tag setting the scope of Kill Password, which is the length from 0 WORD to 2 Word, as the work target when performing Lock, Unlock, or Permalock.



You cannot read, write, and disable lock/unlock if you do not set a password with the Access Password established in the tag when the scope of Kill Password is locked either by Lock or Permalock.

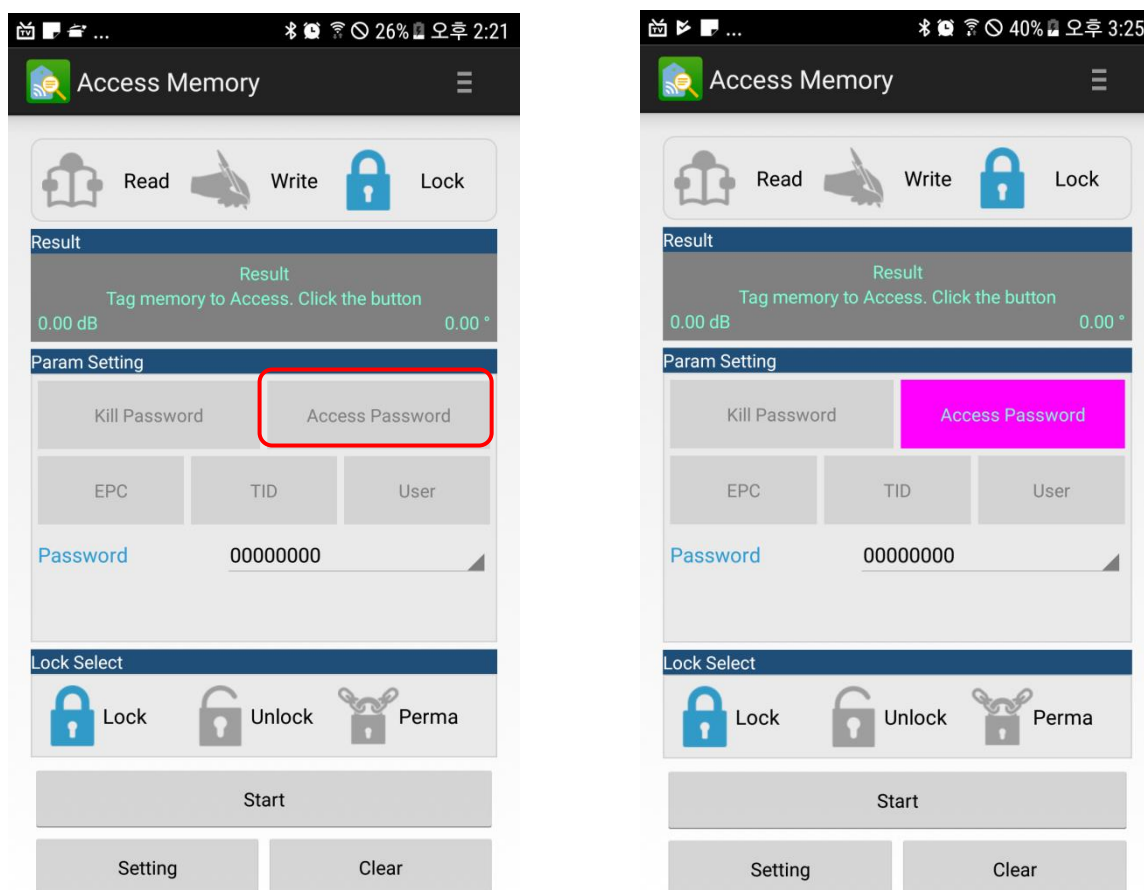
You may set up Kill Password, Access Password, and EPC, TID, and User option in duplicate.

The scope of the overlapping set-up work target will be treated at a time when performing lock, unlock, or permalock.

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3.5.3.2.2. Access Password

Access Password option is offset in the reserved scope of RFID tag in the reserved scope setting up Access Password, which is the length from 2 WORD to 2 Word, as the work target when performing Lock, Unlock, or Permalock.




You may not read, write, lock, and unlock if you do not set a password with the Access Password set in the tag when the scope of Access Password is locked

You may read but may not write and unlock if you don't set a password with the Access Password when the scope of Access Password is locked by Permalock.

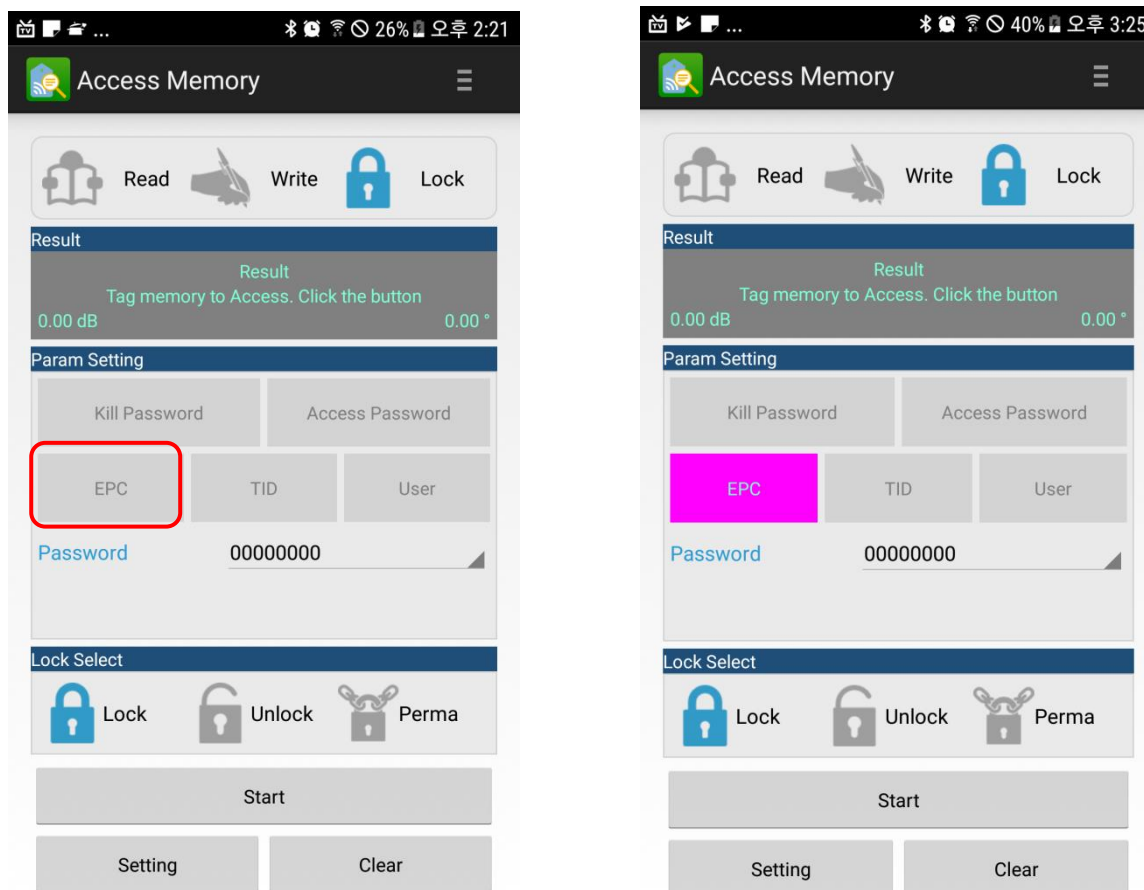
You may set up Kill Password, Access Password, EPC, TID, and User Option in duplicate.

The scope of the overlapping set-up work target will be treated at a time when performing lock, unlock, or permalock

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3.5.3.2.3. EPC

EPCoption is to set the EPC bank scope of EFID tag as the work target when performing lock, unlock, and permalock




You may not read, write, lock, and unlock if you do not set a password with the Access Password set in the tag when the scope of EPC is locked by Lock

You may read but may not write, and disable lock if you don't set a password with the AccessPassword set in the tag when the scope of EPC is locked by Permalock

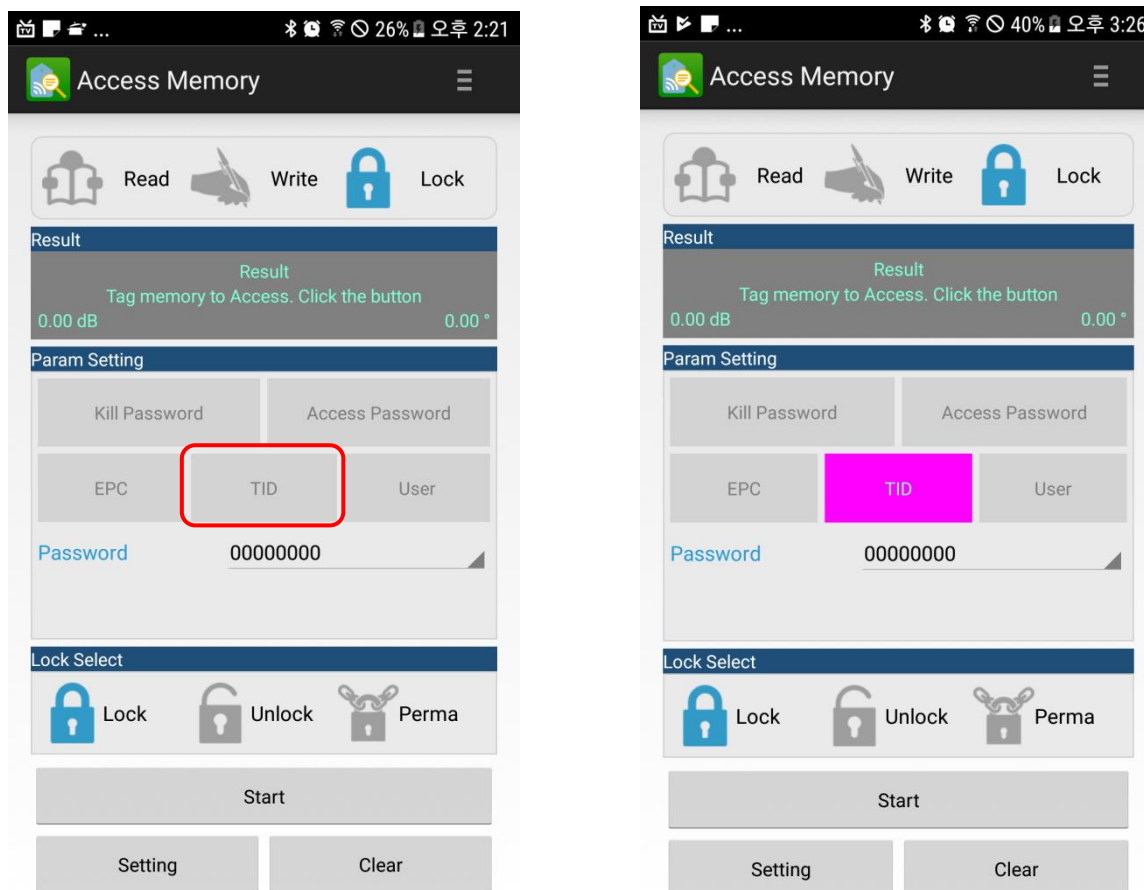
You may set up Kill Password, Access Password, EPC, TID, and User option in duplicate.

The scope of the overlapping set-up work target will be treated at a time when performing lock, unlock, or permalock

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3.5.3.2.4. TID

TID option is to set the TID bank scope of EFID tag as the work target when performing lock, unlock, and permalock




You may not read, write, lock, and unlock if you do not set a password with the Access Password set in the tag when the scope of TID is locked by Lock

You may read but may not write, and disable lock if you don't set a password with the access password set in the tag when the scope of TID is locked by permalock

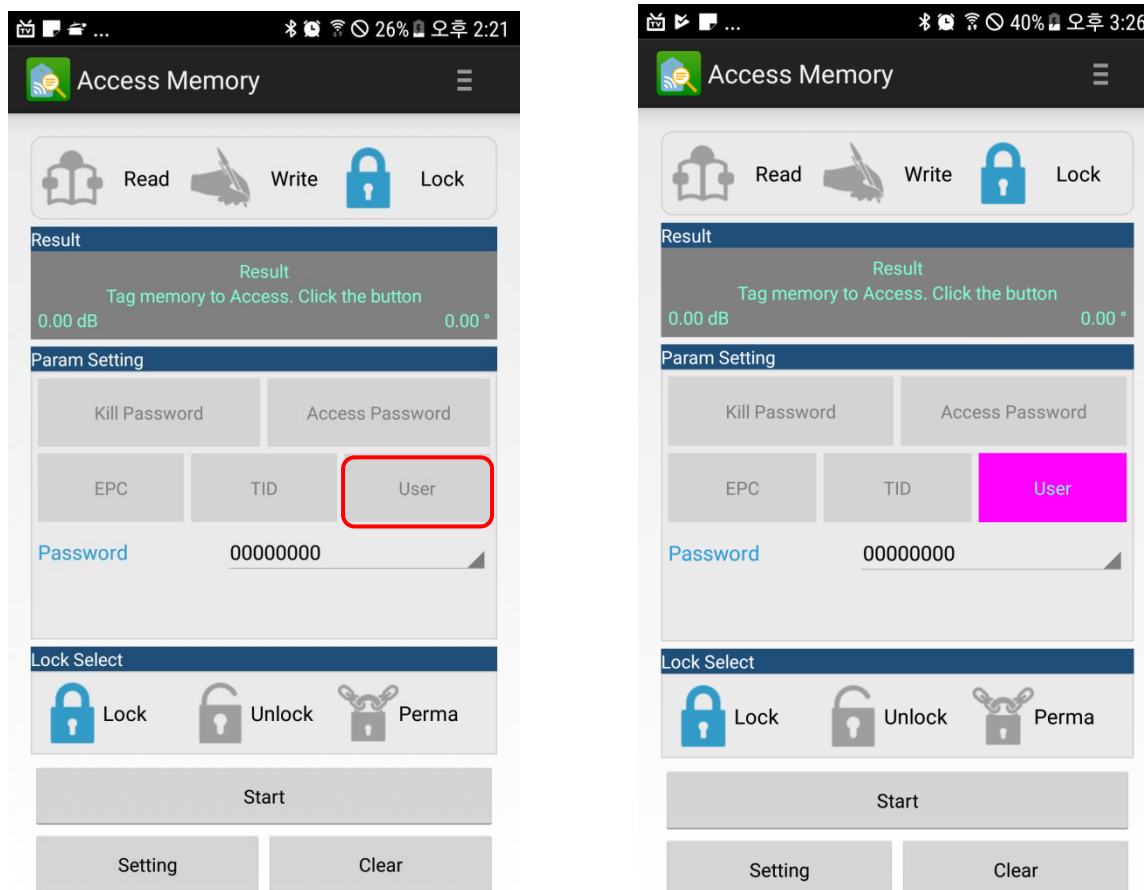
You may set up Kill Password, Access Password, EPC, TID, and User Option in duplicate.

The scope of the overlapping set-up work target will be treated at a time when performing lock, unlock, or permalock

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3.5.3.2.5. User

User option is to set the User bank scope of EFID tag as the work target when performing lock, unlock, and permalock




You may not read, write, lock, and unlock if you do not set a password with the Access Password set in the tag when the scope of User is locked by Lock

You may read but may not write, and disable lock if you don't set a password with the access password set in the tag when the scope of User is locked by permalock

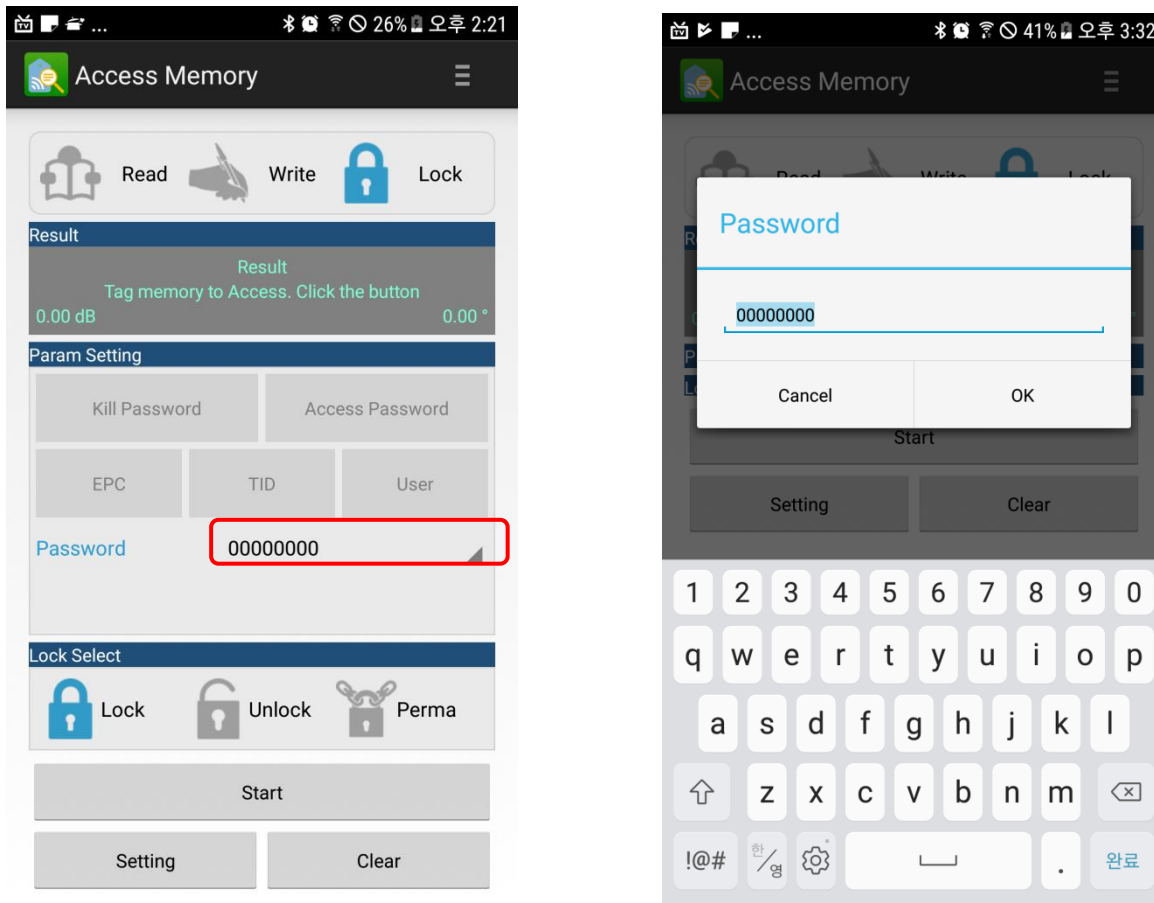
You may set up Kill Password, Access Password, EPC, TID, and User Option in duplicate.

The scope of the overlapping set-up work target will be treated at a time when performing lock, unlock, or permalock

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3.5.3.2.6. Password

In Password Option, set in the equipment to access to tag when RFID tag intending to perform Lock, Unlock, and Permalock is in Lock




If RFID tag is in lock mode, you will be in the situation that you cannot lock and unlock in the scope of being locked.

set a password identical to Access password stored in the tag and conduct lock or unlock of the tag if you want to lock or unlock on the specific scope of RFID tag which is in lock mode

You cannot unlock the specific scope of RFID tag memory which is in PermaLock.

Your conduct of lock, unlock, and permalock will be in failure if a password differs from the access password stored in RFID tag.

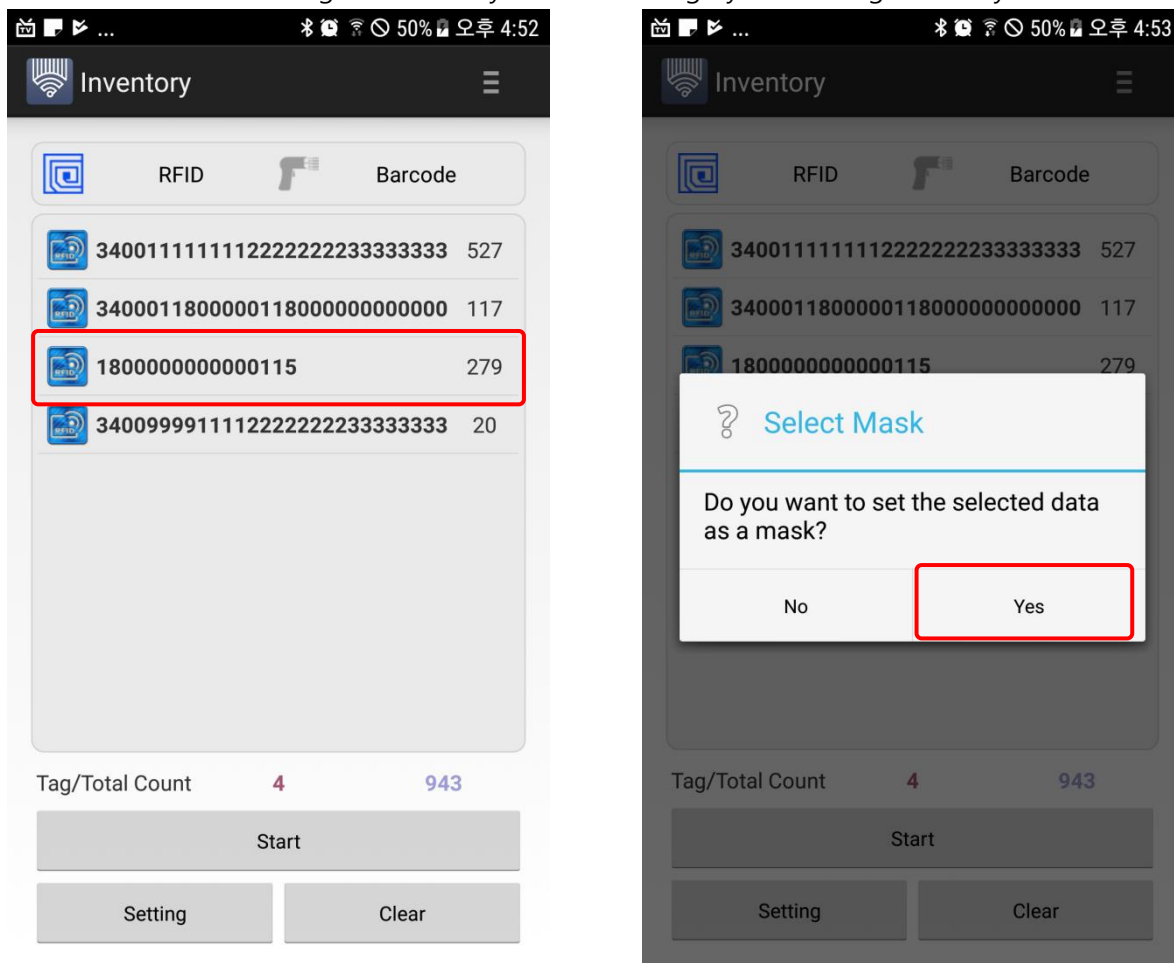
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3.5.3.3. How to set access password in tags


We will show set access password in the specific reserved scope of RFID tag and lock on the access password to test how to lock RFID tag.

Access password is the length of 2word starting from 2word in the reserved scope.

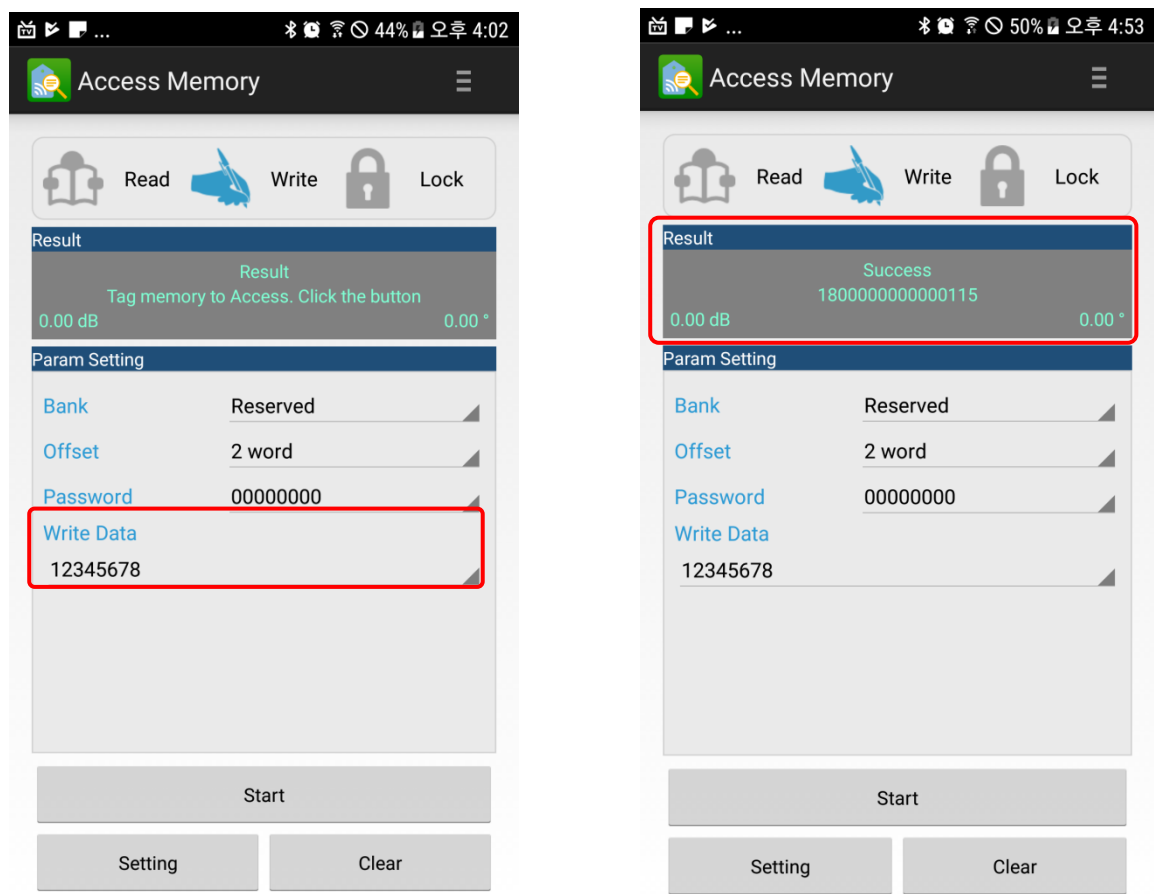
Generally, approach to tag memory by searching for a tag through inventory and hanging a tag to selection mask based on EPC before doing lock memory. Search for a tag by conducting inventory on the inventory screen.




Stop conducting inventory once a RFID tag intended to access in inventory is found and set the RFID tag searched as selection mask by touching and holding on it.

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Move to Access Memory from main menu if Selection Mask is set.
Set Access Password in write memory for tag.



It will identically act as the set password on the screen of lock memory if bank on white memory is set reserved, offset is set 2word, and white data is input "12345678" and then if you conduct white memory by touching on white button.

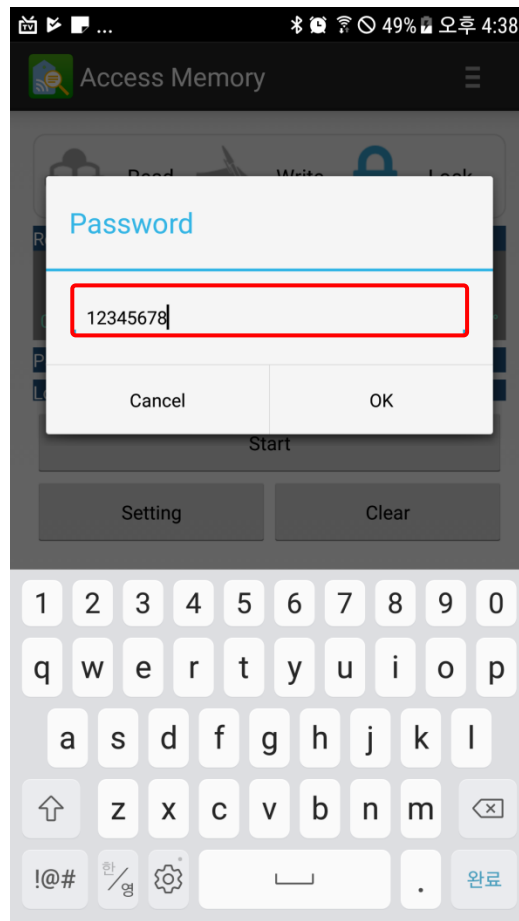
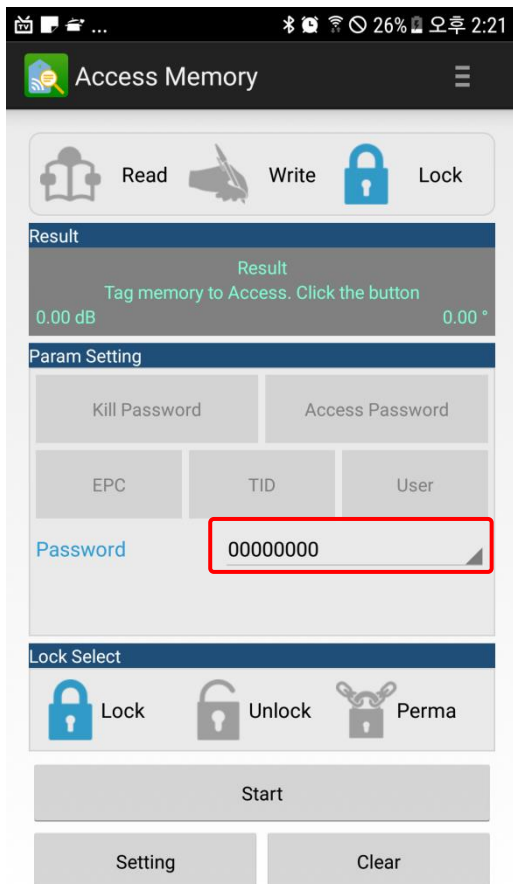
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Move to Access Memory from main menu if Selection Mask is set.

In the Lock Memory screen, you can use Access Password easily.

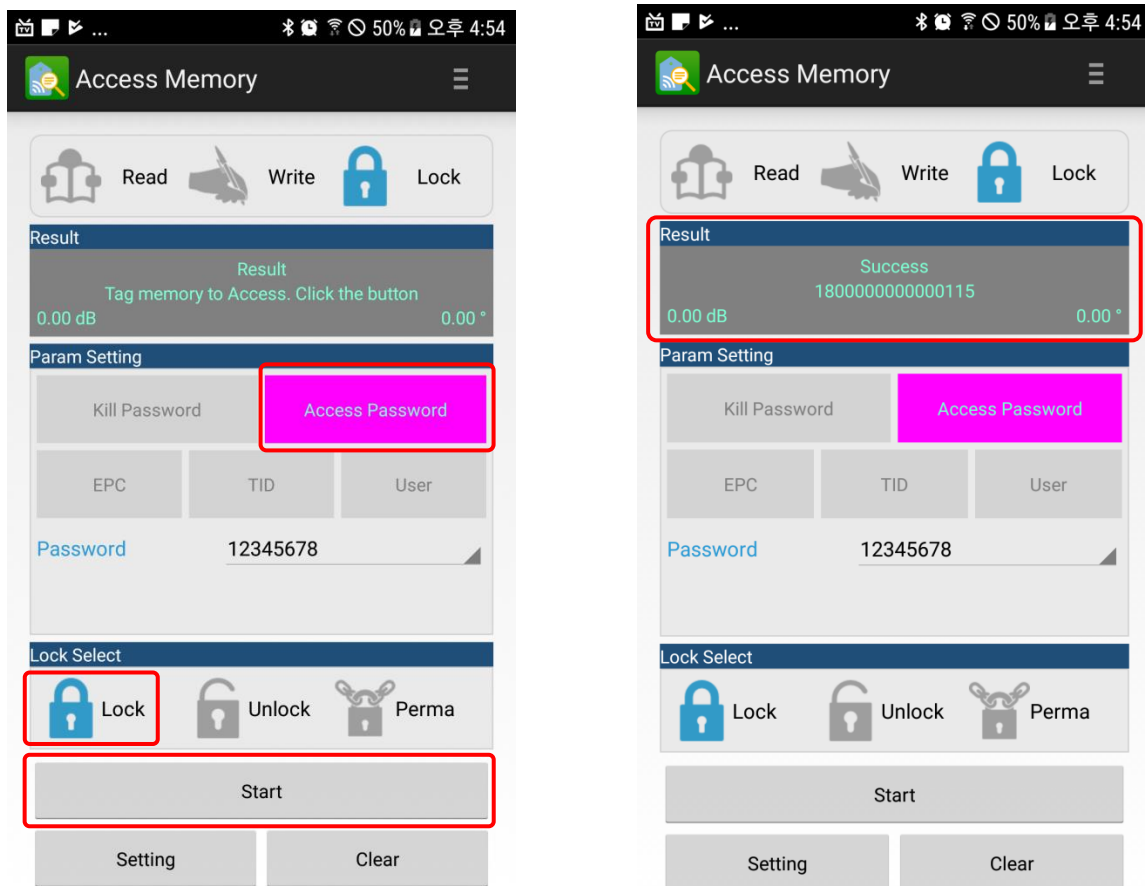
Touch the scope of password and input Access Password intending to set a RFID tag.

Here input "12345678".



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choose Access Password from Param Setting and lock from Lock Select in order that Access Password is in lock.



If you are ready to lock RFID tag,touch Start button to let Access Password be in Lock.

If the tag is properly in Lock,print out access result in the scope of Result, EPC of the tag accessed to, RSSI, and Phase

You may not read the data in the scope of access password if access password for RFID tag is not in agreement.

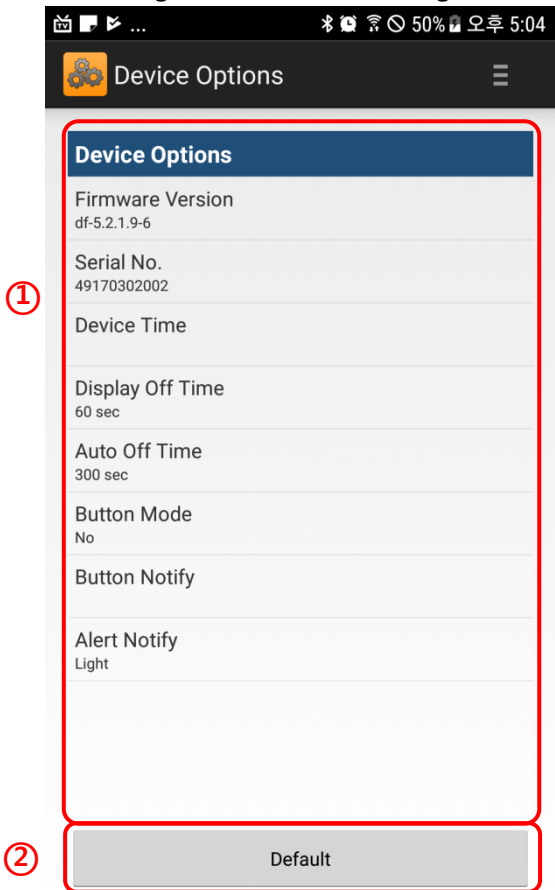
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3.6. Option


Option Demo can set the equipment.

3.6.1. Screen Composition

Option Demo consists of the following items shown in the figure below

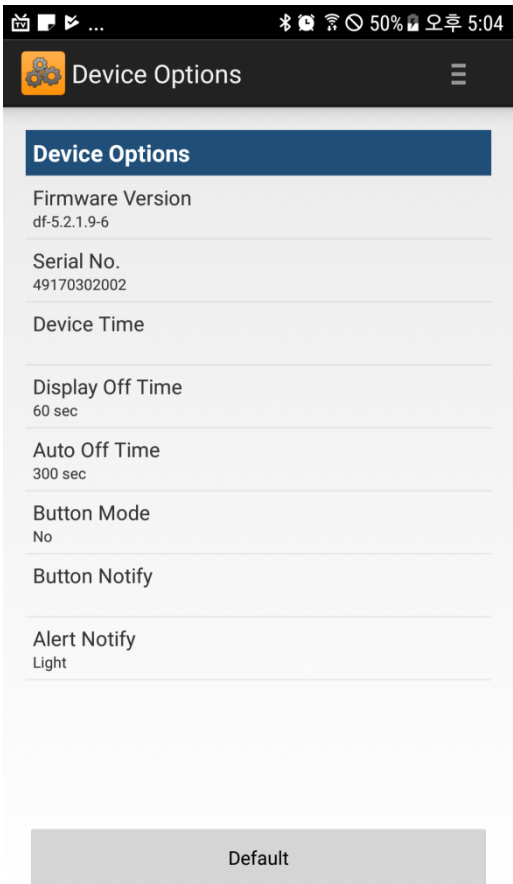


- ① **Option List:**it is the list showing the options of the equipment.
The items of the list show the names of each option and the value of setting
You may set by touching the option
- ② **Default:**it initializes the value of option of the equipment.

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3.6.2. How to change device options

The equipment consists of modules and main devices controlling the modules. Device Option provides a circumstance manipulating the setting in regard to main devices




3.6.2.1. Firmware Version

Firmware Version prints out main programs operated in main devices.

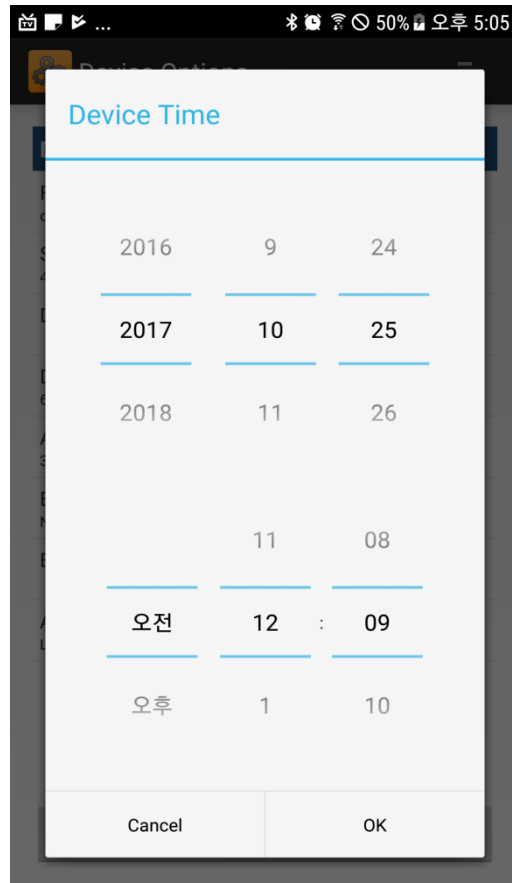
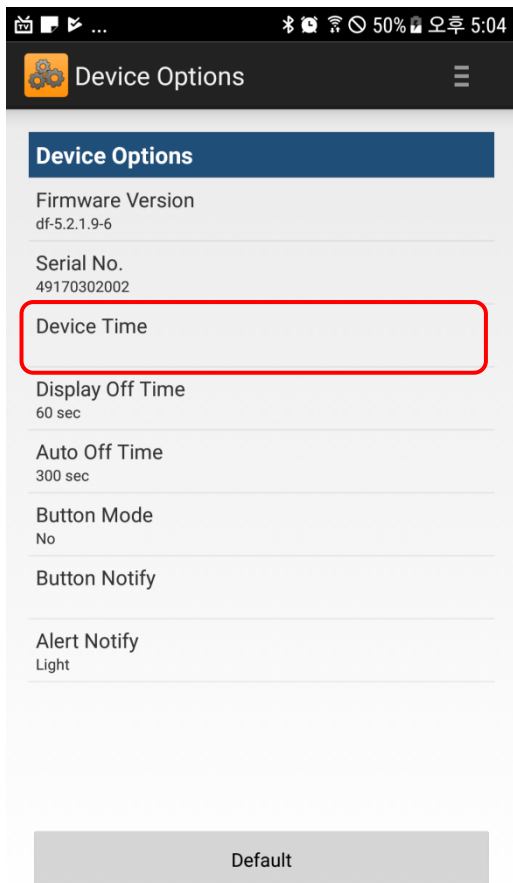
3.6.2.2. Serial No

Serial No is the distinguished number to sort out each tool printing the administration number of managing tools.

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3.6.2.3. Device Time

Device Time sets the time of internal watch



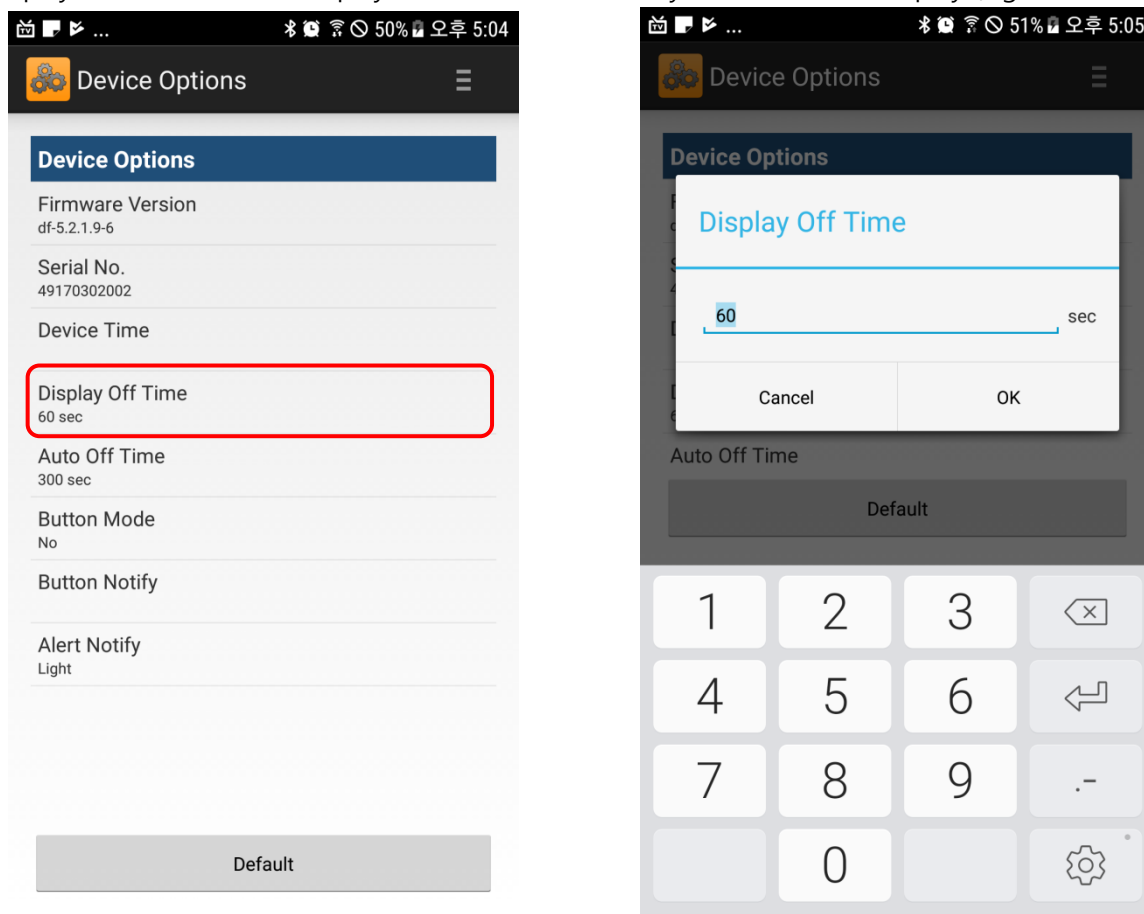
There will be a dialog box in which you may set device time by touching on the Device Time.
If you set date and time on the dialog box are touch on OK button, the time of the equipment will be set up. touch Cancel button to cancel the set of time

※ this function will not be provided inATS100 and ATD100.

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3.6.2.4. Display Off Time

Display Off Time is to set display off time to save battery in the tools on display (e.g., AT388, AT188N, and etc.)




If Display Off Time is set 0sec, display will not automatically be off until the power of the tools is cut off.

The set unit of Display Off Time is second

The way of the automatic going off of the tools having display is display will go off if it is not used during Display Off Time and after Display goes off, if it is not used during Auto Off Time tool will go off.

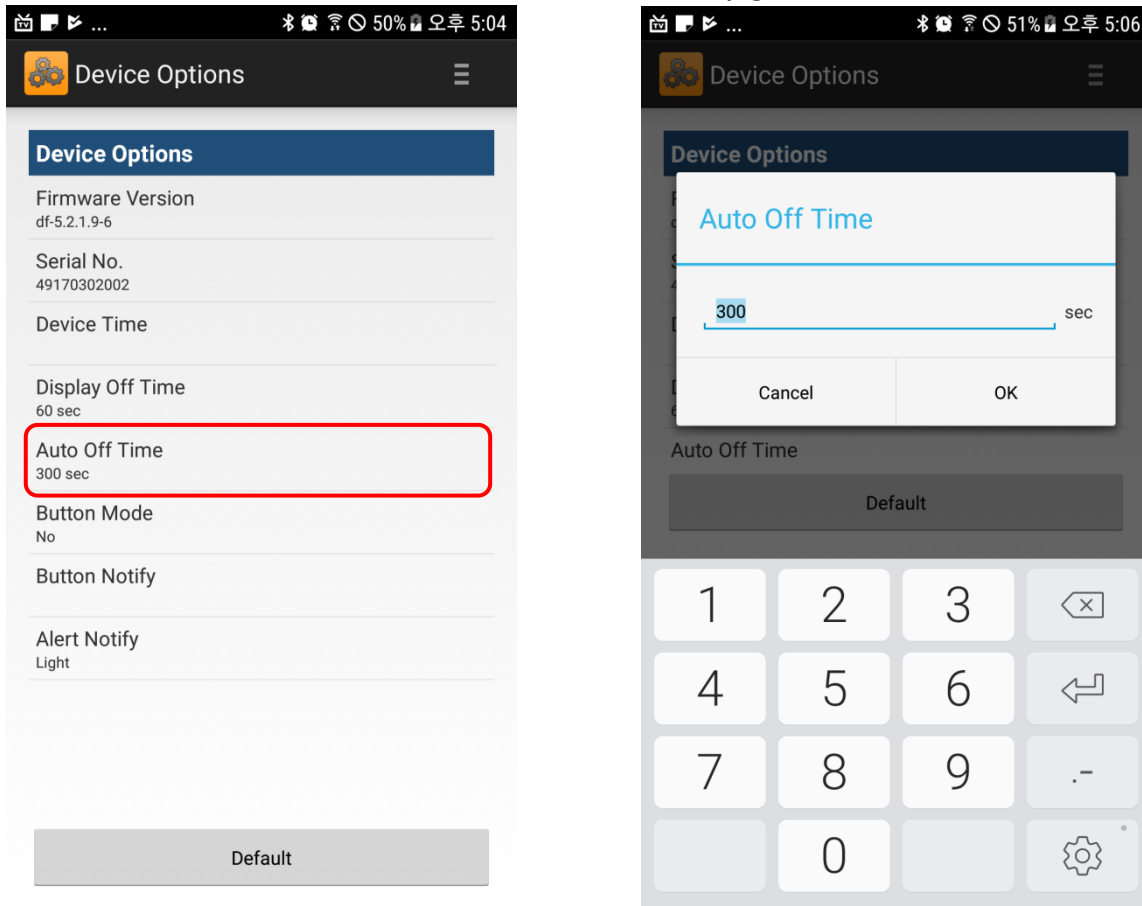
If Display Off Time is set 0, display will not go off so Auto Off Time will not have any meaning

※ this function will not be provided inATS100 and ATD100.

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3.6.2.5. Auto Off Time

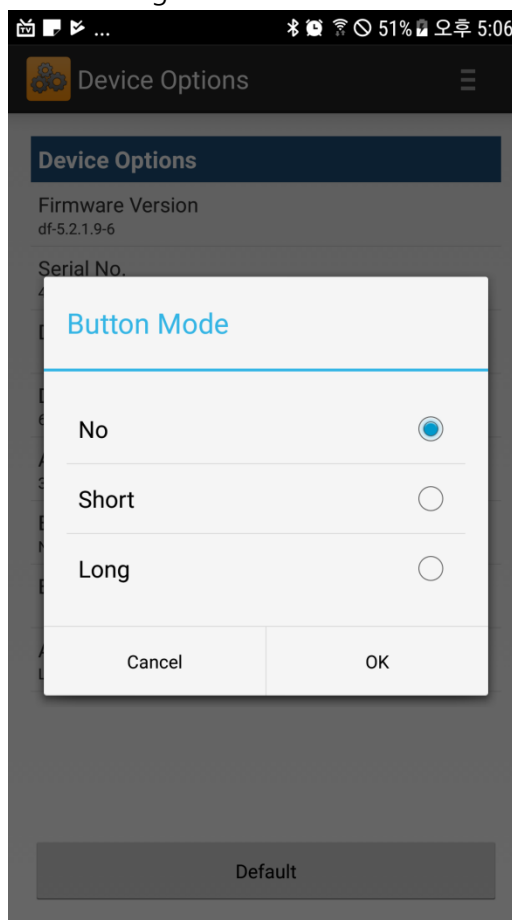
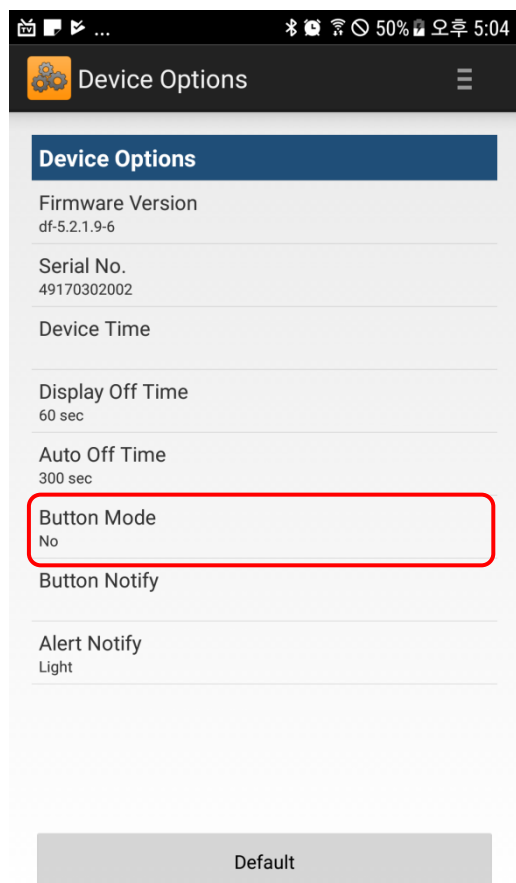
Auto Off Time is to set for the time the tool will automatically go off.




If Auto Off Time is set 0sec., the tool will not automatically go off. The set unit of Auto Off Time is second.

3.6.2.6. Button Mode

Button Mode is to set the start sound of tool's button and the length of vibration.

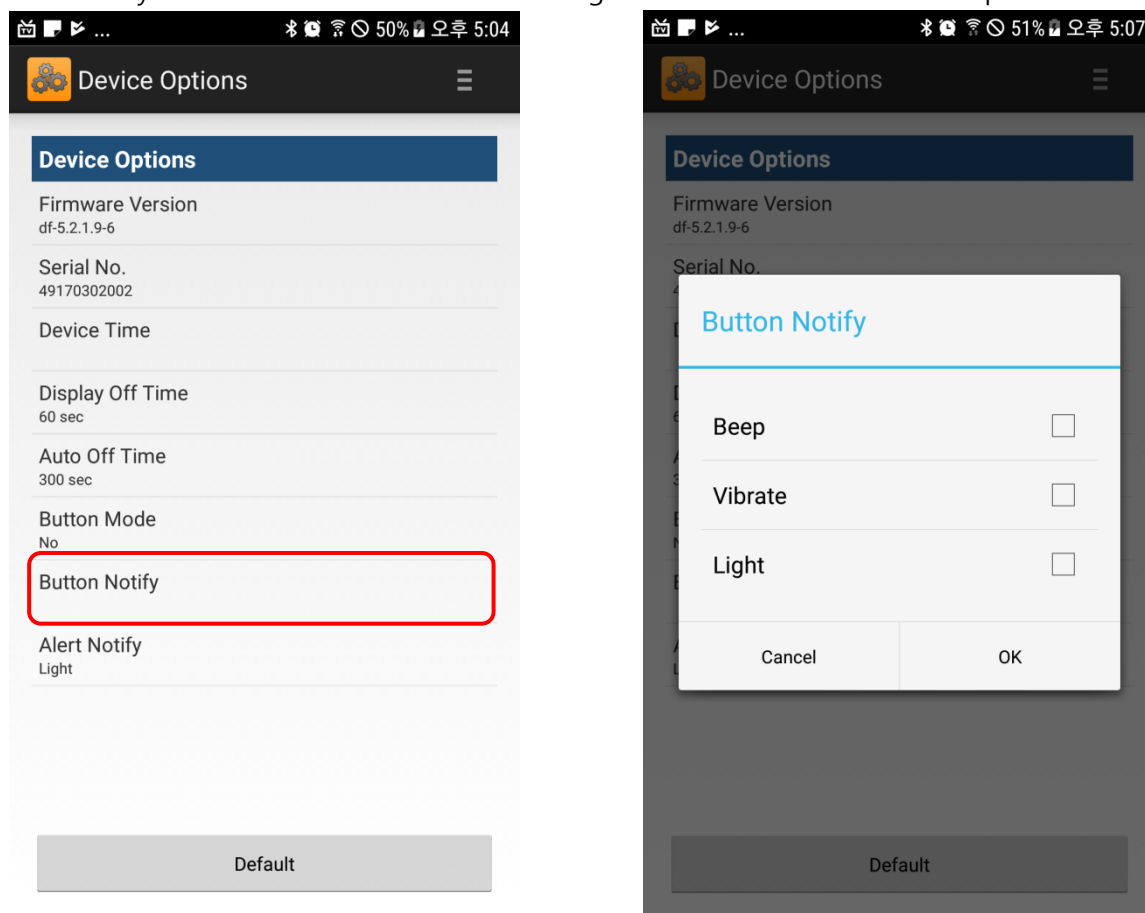


Button Mode	Description	Note
No	No use of button alert function	
Short	Button alert sound and vibration will be brief.	
Long	Button alert sound and vibration will be long.	

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3.6.2.7. Button Notify

Button Notify is to set for how to do alert which goes on when the tool button is pressed.



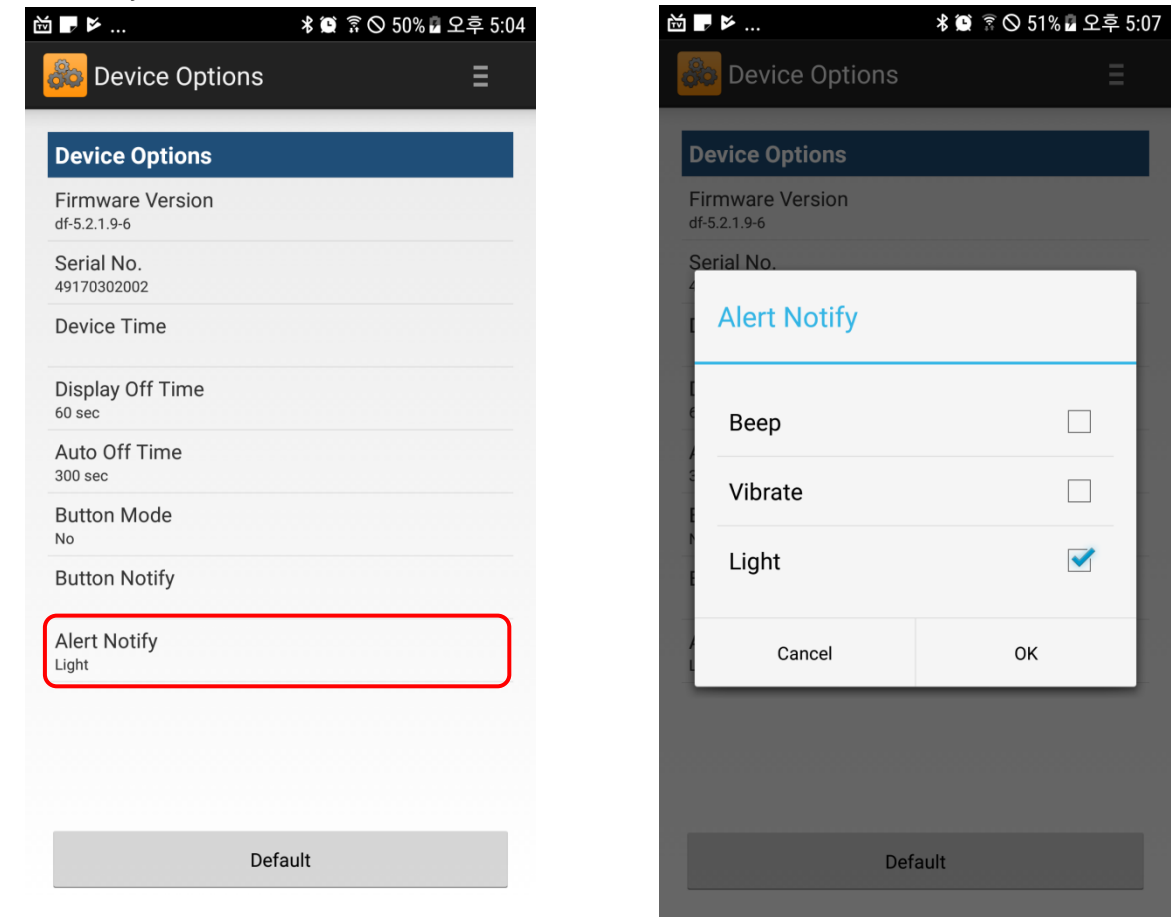
Button Notify	Description	Note
Beep	A beep sound is generated when the tool button is pressed.	
Vibrate	Vibration is generated when the tool button is pressed	
Light	LED blinks when the tool button is pressed.	

※ light function will not be provided in ATS100

※ vibration function will not be provided in ATD100


3.6.2.8. Alert Notify

Alert Notify is to set for how to do alert when an event on tool occurs



Alert Notify	Description	Note
Beep	A beep sound is generated when an event on the tool occurs	
Vibrate	Vibration is generated when an event on the tool occurs.	
Light	LED blinks when an event on the tool occurs.	

- ※ light functionwill not be providedin ATS100
- ※ vibration will not be providedin ATS100

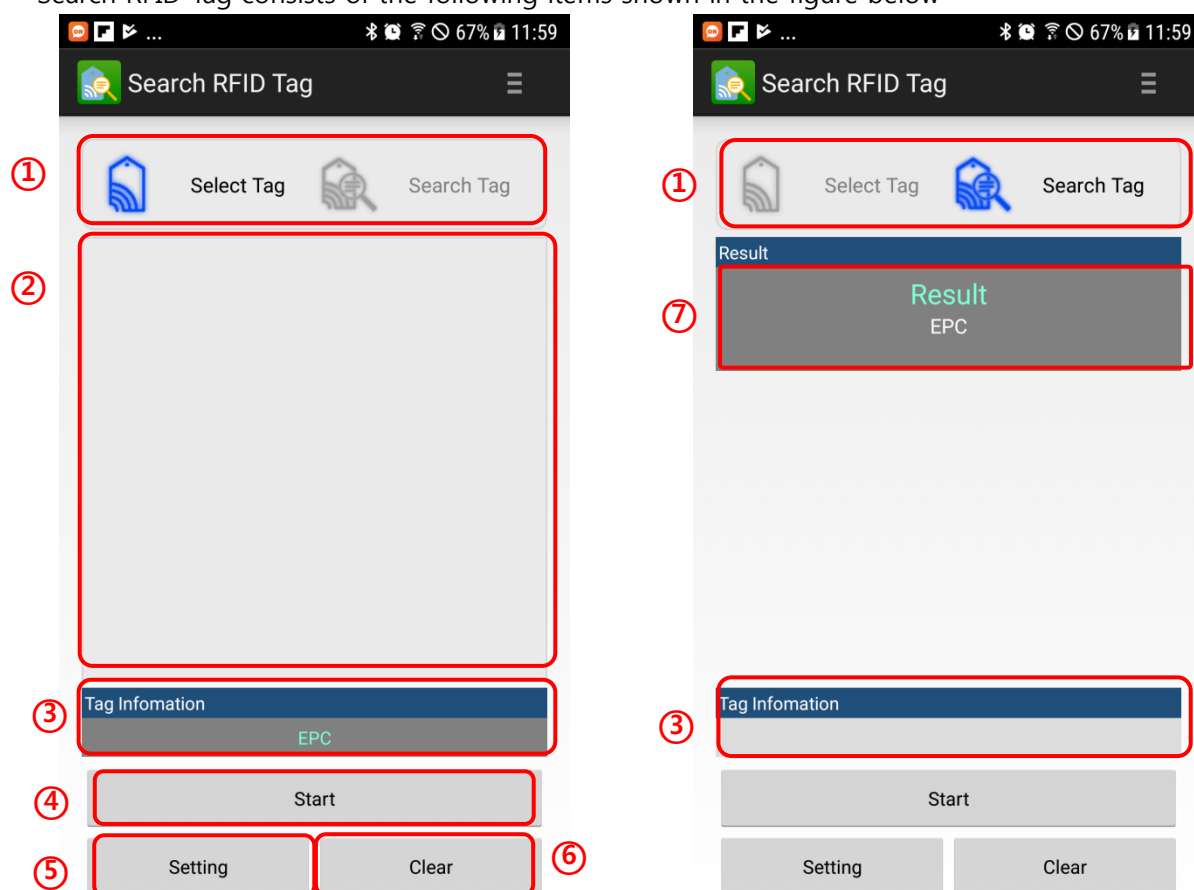
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3.7. Search RFID Tag


Demo for searching specific Tag.

3.7.1. Screen Composition

Search RFID Tag consists of the following items shown in the figure below

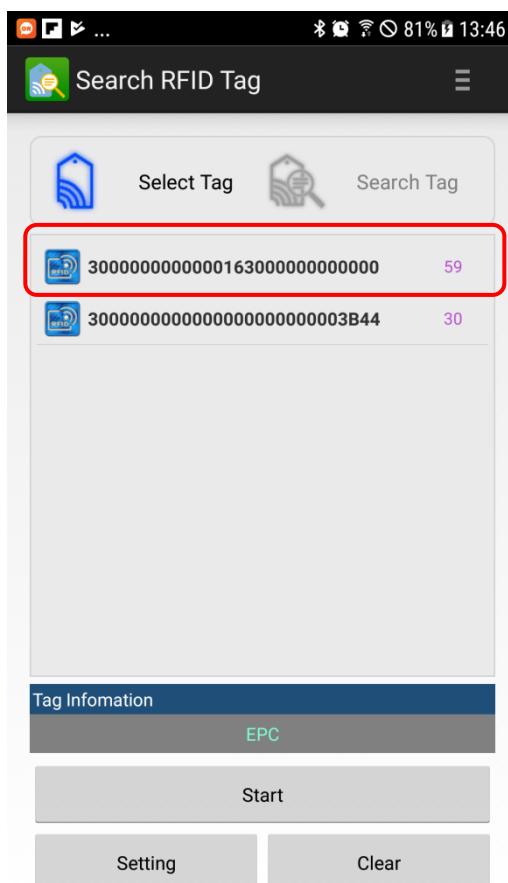
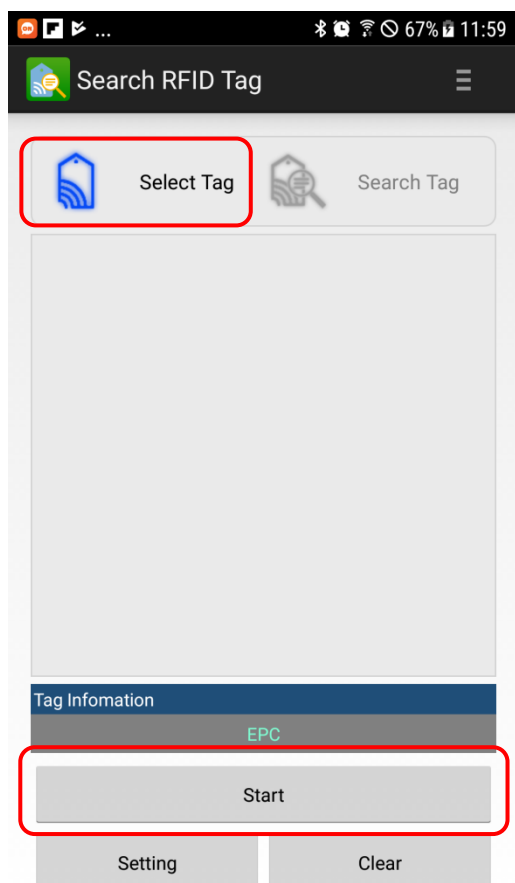


- ① **Operation Mode** :Select the Tag or search the specified Tag.
- ② **Data List** :When the Tags are read, it will be displayed here.
- ③ **Tag Infomation** :The Tag you selected will be displayed.
- ④ **Start** :Inventory is started . After initiation, it changes to Stop button.
- ⑤ **Setting** :Go to the screen to set RFID or Barcode Option.
- ⑥ **Clear** :All data in Data list gets removed and each count values are reset.
- ⑦ **Result** :Displays the result of the search.

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3.7.2. How to search RFID tag


Select "Select Tag" icon.

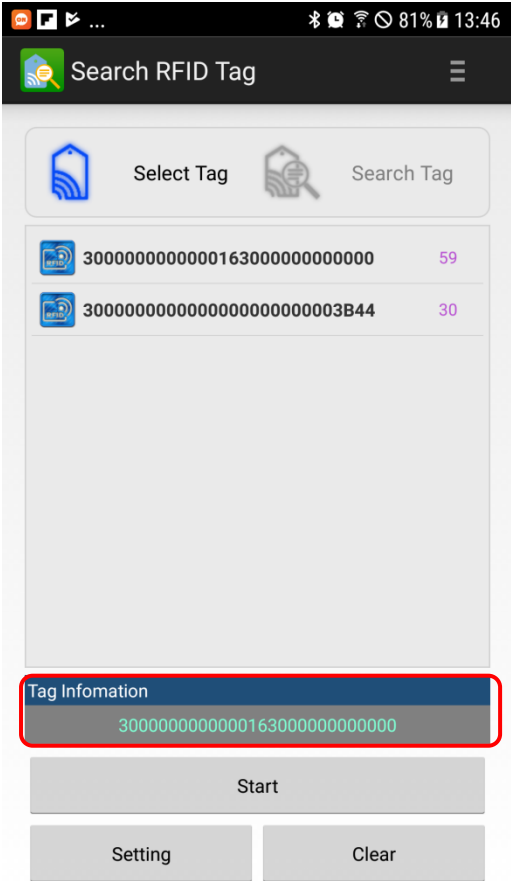
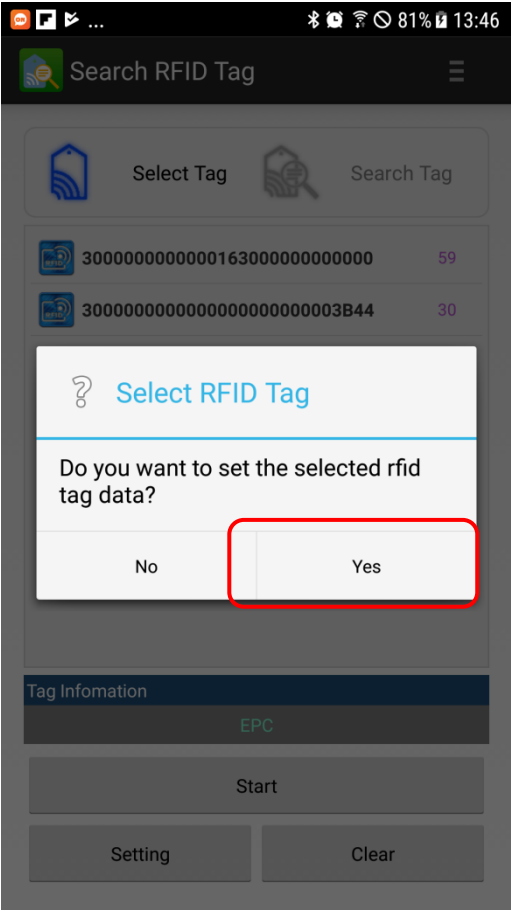


To start inventory, click the "Start" button.


If the Tag that you want to search be displayed, click the "Stop" button.

Long touch the Tag on screen.

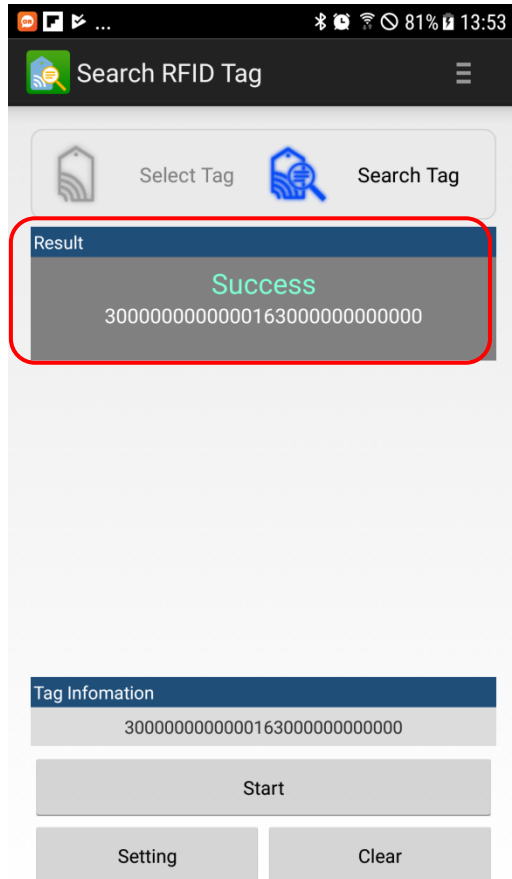
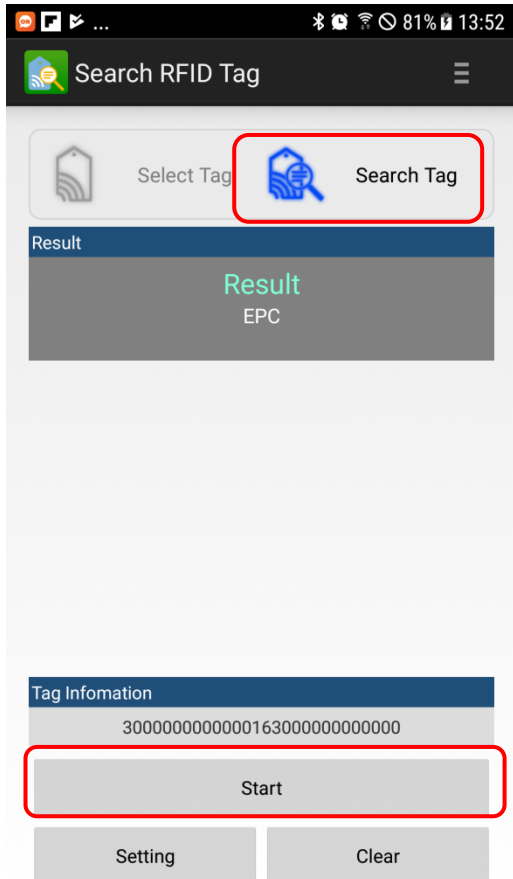
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Click the "Yes" button on the "Select RFID Tag" dialog.
If you click the "Yes", Tag's data will be displayed at "Tag Information".

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Select "Search Tag" icon.



If you click "Start" button, start search specified Tag

If Tag that has epc same as "Tag Information" be found, result displayed on the screen.