

ATID Co.,Ltd

ATID Reader Demo Guide for Windows

Windows Demo Guide Manual



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SDK Team

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version


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Revision history

Version	Date of revision (yr/mo/day)	Reason for revision ¹	Contents of revision ²	Composer
V0.1	2017-04-14	First draft		Y.J Cho
V0.2	2017-11-06	Correction	UI applied to New version	Y.J Cho
V0.3	2018-03-12	Change of name	Change of name and additional functions added	Y.J Cho

¹ Reasons of revision: selectively marking on whether the contents of enactment or revision are added, modified, or deleted from previous documents.

² Contents of revision: description of page number on which revision occurs and contents of revision.

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1. Outline

This document aims at explaining the method of using ATID Reader Demo.

ATID Reader Demo is intended to demonstrate its function of ATID External Accessory Device and supports models such as AT188N, AT388, ATS100, and ATD100 (B).

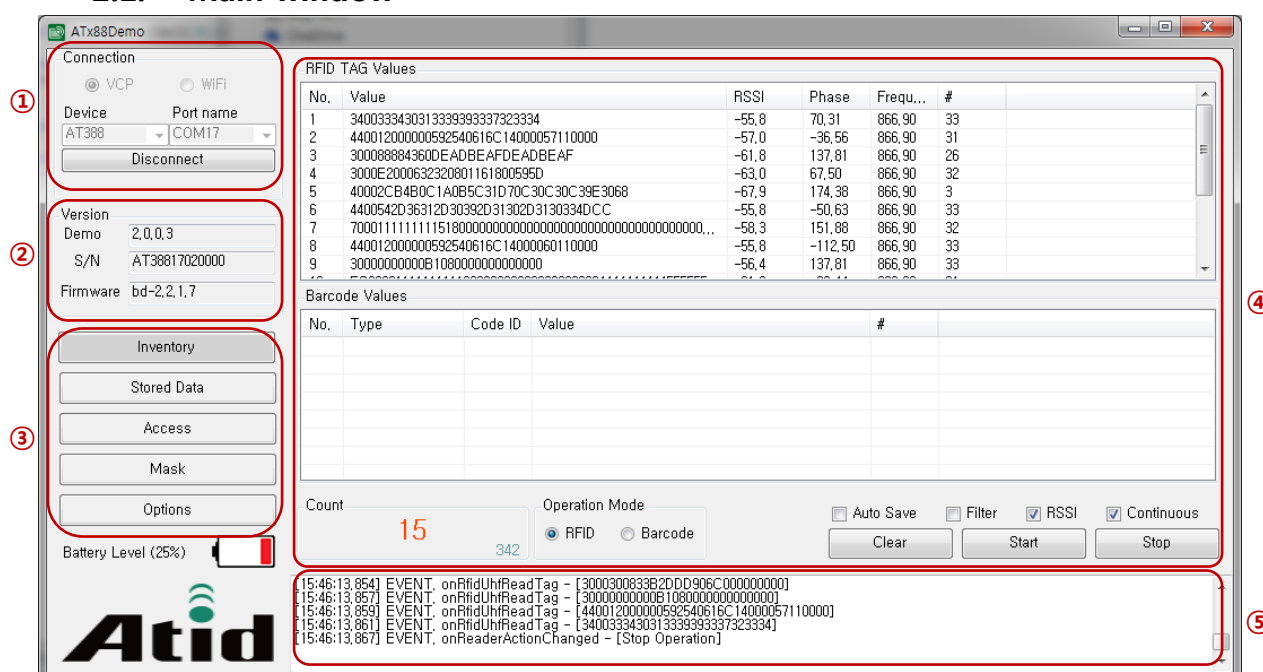
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2. Launching the Demo

It runs the exe files in the folder of SDK Library.

WBin\Windows\ATIDReaderDemo.exe

2.1. Main window



① Connection

Sets the connection method and then connect or disconnect the device.

② Version

It displays its Firmware version, Serial Number, and Demo App version on the connected device.

③ Operation Button


It displays the pages corresponding to the selected button on the area of ④ on the right.

④ Operation

The selected page will be displayed by Operation Button.

⑤ Log

Information, error, and etc., output when the Demo App is operating will be displayed on the screen.

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3. Connection

The following connection methods for the models supported by ATID Reader Demo such as AT188N, AT388, ATS100, and ATD100 will be provided.

AT188N: Bluetooth, USB

AT388: Bluetooth, USB, Wi-Fi

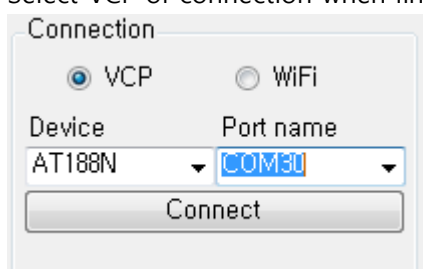
ATS100: Bluetooth, USB

ATD100 (B): USB (Bluetooth available for ATD100B)

※ Check port number assigned in the menu "Devices & Printers" of the system before connection.

3.1. VCP

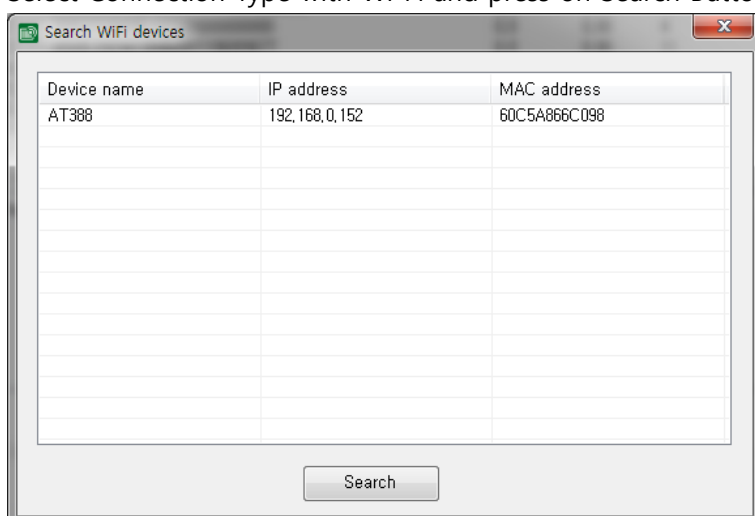
- Select VCP of connection when linked to with Bluetooth or USB.



-
- Select the connected device with its assigned port number.
- Click on Connect Button for connection.

3.2. Wi-Fi

- Select Connection Type with Wi-Fi and press on Search Button.



-
- When Search Screen appears, click the Search Button to search for the device.



- Devices connected to PC associated with AP will be searched that devices should be set to be connected to AP.
- Double click on device you want to be connected to.


- Information of the device selected on Search Screen will be automatically input.
- Make an attempt for connecting by clicking on Connect Button.
- If checking "Try to reconnect," make an attempt to reconnect whenever device is disconnected.

Perform RFID Tag inventory and Barcode decoding.

① RFID data

it displays the inventoried tag data.

If the list of RSSI is checked, mark on information of RSSI and Phase together.

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② Barcode data

it displays the Barcode data decoded.

This function will be provided in the model of ATD100 (B).

③ Count

It displays the number of Inventoried tag and Barcode decoded.

The sum of the only values is displayed in larger numbers and the sum of the total event occurrences is displayed in smaller numbers.

④ Operation Mode

Select either RFID or Barcode for the functions to perform when pressing on Start Button.

This value will be changed when the mode in Device is altered.

In case of ATS100, Key Event Mode is supported and it will display the value on Log window when the Trigger of ATS100 is up and down if Key Event Mode is set .

This function for ATD100 (B) will be provided ATD100 (B).

⑤ Auto Save Mode

Decide on if the data read shall be in the memory of device or not.

If Tag and Barcode are read in the Auto Save Mode, the value will be stored in the memory of device and it is possible to import or delete the stored data from the page for the Stored Data.

This function will not be provided in ATD100 (B) and ATS100.

⑥ Filter

As a result of inventory, decide on whether unrepeated Tag data will be received or not. Once event in regard to Tag will occur when Filter Mode is on but several events will occur if it is off.

Delete Tag data and Barcode data marked on the screen.

This function for ATS100 will not be provided.

⑦ RSSI

Set for reading the value of RSSI and Phase and as well as Tag data when performing inventory.

⑧ Continuous

Set if you will stop reading or not after reading data once when performing inventory.

⑨ Clear


Delete the value of Tag and Barcode marked on the screen.

⑩ Start

Perform the function selected in Operation Mode.

(RFID : Inventory TAG, Barcode : decode Barcode, Key Event : no responding)

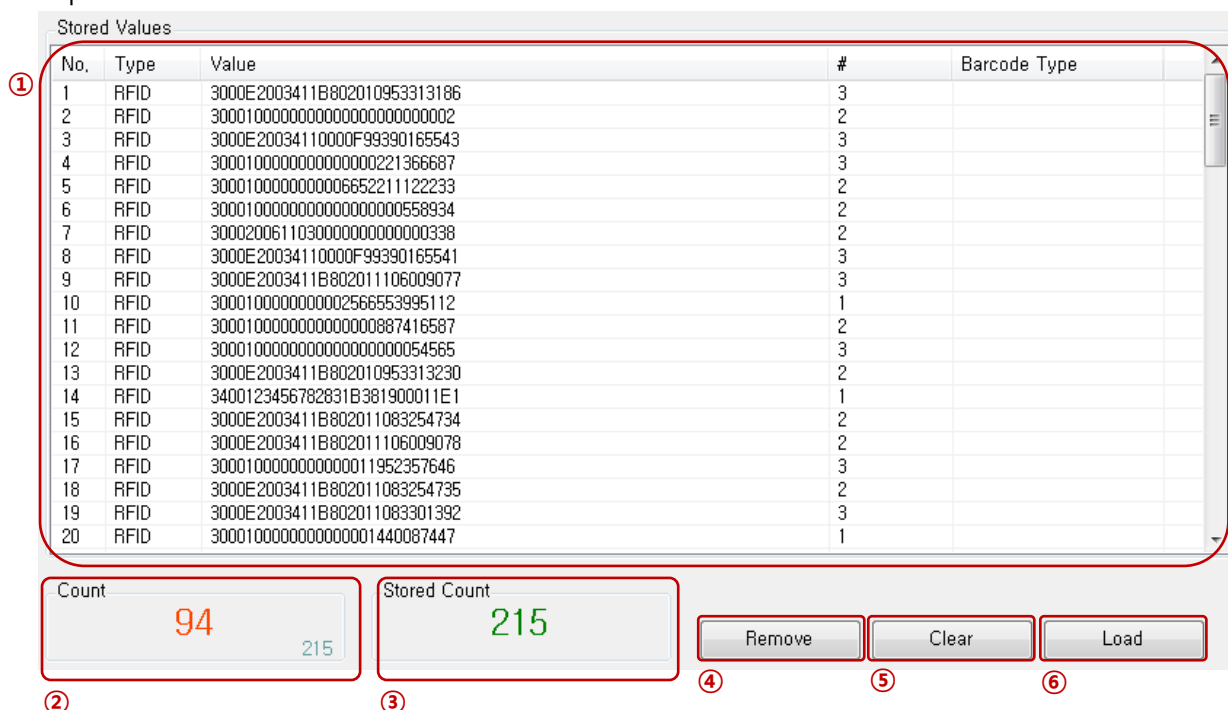
⑪ Stop

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Stop the function under performance.

5. Stored Data

Import or delete the stored data.



Stored Values

No.	Type	Value	#	Barcode Type
1	RFID	3000E2003411B802010953313186	3	
2	RFID	30001000000000000000000002	2	
3	RFID	3000E20034110000F99390165543	3	
4	RFID	3000100000000000000221366687	3	
5	RFID	300010000000000006652211122233	2	
6	RFID	300010000000000000000558934	2	
7	RFID	3000200611030000000000000338	2	
8	RFID	3000E20034110000F99390165541	3	
9	RFID	3000E2003411B802011106009077	3	
10	RFID	3000100000000002566553995112	1	
11	RFID	3000100000000000000887416587	2	
12	RFID	300010000000000000000054565	3	
13	RFID	3000E2003411B802010953313230	2	
14	RFID	3400123456782831B381900011E1	1	
15	RFID	3000E2003411B802011083254734	2	
16	RFID	3000E2003411B802011106009078	2	
17	RFID	3000100000000000011952357646	3	
18	RFID	3000E2003411B802011083254735	2	
19	RFID	3000E2003411B802011083301392	3	
20	RFID	3000100000000000001440087447	1	

Count: 94 (215)

Stored Count: 215

Remove Clear Load

① Stored values

Data stored in Device.

② Count

the number of the data imported from Device.

③ Stored Count

the number of the data stored in Device.

④ Remove


Delete all the data stored in Device.

⑤ Clear

delete the data marked on the screen.

⑥ Load

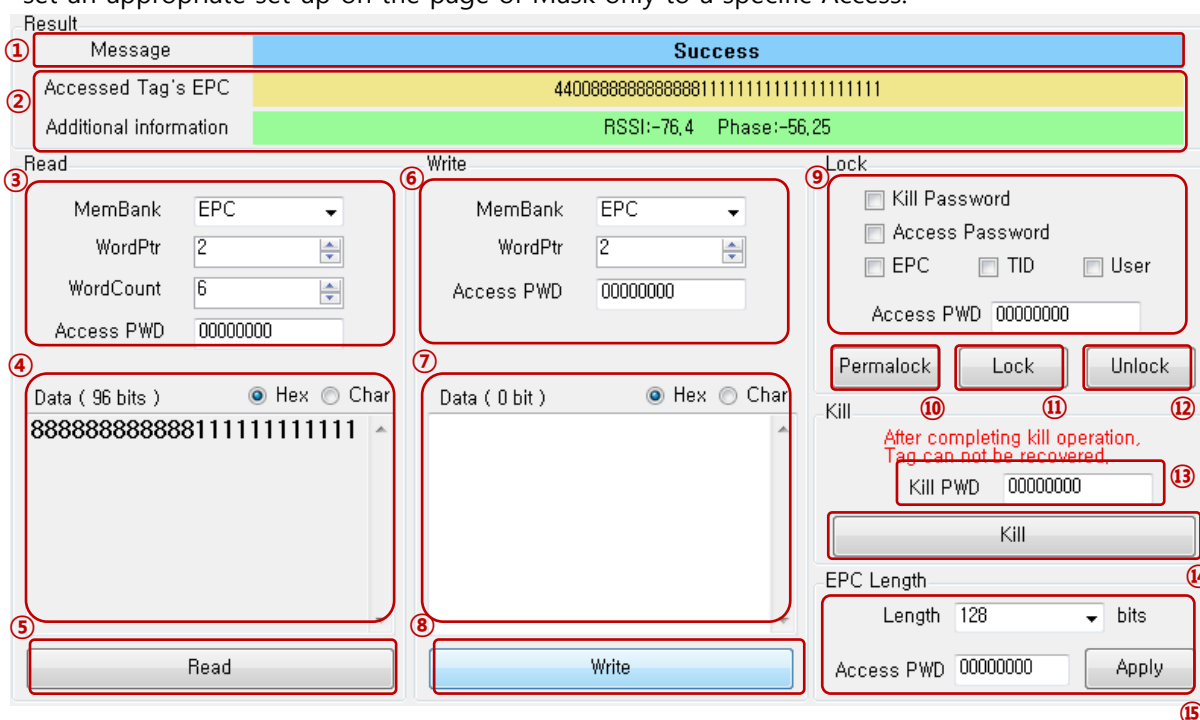
Import the data stored in Device.

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6. Access

Perform Read/Write/Lock/Kill on the RFID Tag.

set an appropriate set up on the page of Mask only to a specific Access.



The screenshot displays the ATID Reader Demo Guide for Windows software interface. At the top, a 'Result' section shows a 'Message' of 'Success' (1), 'Accessed Tag's EPC' as '44008888888888881111111111111111' (2), and 'Additional information' as 'RSSI:-76,4 Phase:-56,25' (3). Below this are three main configuration panels: 'Read' (4), 'Write' (6), and 'Lock' (9). The 'Read' panel includes fields for 'MemBank' (EPC), 'WordPtr' (2), 'WordCount' (6), and 'Access PWD' (00000000), with a 'Data (96 bits)' display showing '8888888888888888111111111111' (5) and a 'Read' button (5). The 'Write' panel includes fields for 'MemBank' (EPC), 'WordPtr' (2), and 'Access PWD' (00000000), with a 'Data (0 bit)' display (7) and a 'Write' button (8). The 'Lock' panel includes checkboxes for 'Kill Password', 'Access Password', 'EPC', 'TID', and 'User', an 'Access PWD' field (00000000), and buttons for 'Permalock', 'Lock', and 'Unlock' (9). Below the 'Lock' panel is a 'Kill' section (10) with a 'Kill PWD' field (00000000) (13) and a 'Kill' button (14). A warning message states 'After completing kill operation, Tag can not be recovered.' (12). At the bottom right, an 'EPC Length' section (14) shows 'Length' as 128 bits and an 'Access PWD' field (00000000) with an 'Apply' button (15).

① Message

it displays the result of the command of Access.

② Accessed Tag's EPC

it displays accessed tag's EPC data, and information of RSSI, Phase, and Frequency.

③ Read parameters

- Memory Bank: set Memory Bank to read.
- Offset: set the start address to read (by word)
- Length: set the length to read (by word)
- Access Password: input access password.

④ Read Data

it displays the data read when reading is well done.


It displays as a hexadecimal string or a string converted to char, depending on the option which is either Hex or Char.

⑤ Read Memory

Perform Read command by parameter set up in the third item.

⑥ Write parameters

- Memory Bank: set Memory Bank to write.

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- Offset: set the start address to write (by word)
- Access Password: input access password for writing.

⑦ **Write Data**

Data to write in Tag

make an attempt to write by being converted to as a hexadecimal string, depending on the option which is either Hex or Char.

⑧ **Write Memory**

Perform Write command by parameter selected in the sixth item.

⑨ **Lock parameters**

- Kill Password: set if Kill password shall be locked or not.
- Access Password (check box): set if Access password shall be locked or not.
- EPC: set if EPC Bank shall be locked or not.
- TID: set if TID Bank shall be locked or not.
- User: set if User Bank shall be locked or not.
- Access Password (text box): input access password to be used for lock.

⑩ **Permalock**

- Perform Permalock command by parameter selected in the ninth item.

⑪ **Lock**

- Perform Lock command by parameter selected in the ninth item.

⑫ **Unlock**

- Perform Unlock command by parameter selected in the ninth item.

⑬ **Kill Password**


- input kill password to be used for Kill. (must be input)

⑭ **Kill**

- Perform Kill command by kill password set in the thirteenth item.

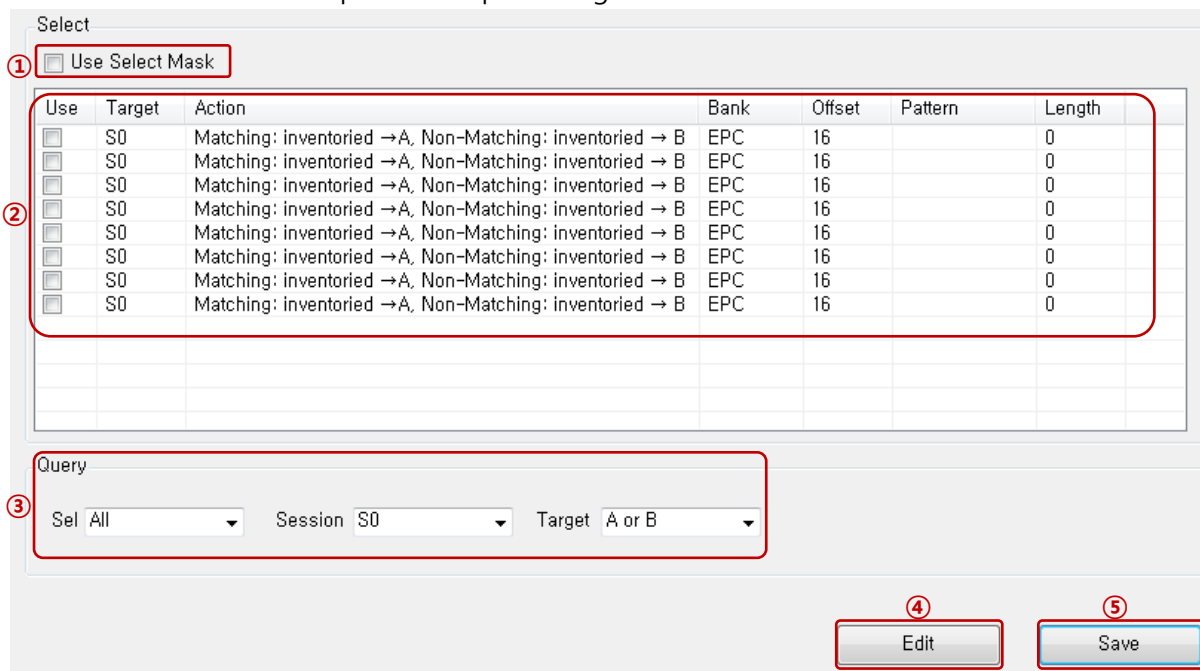
⑮ **EPC Length**

- Display the length of EPC of the Tag accessed by Bit; and then make a note of the changed length of EPC on Tag by pressing on Apply Button after changed.

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7. Mask

Set Select Mask able to respond to a specific Tag.



Select

① ☐ Use Select Mask

Use	Target	Action	Bank	Offset	Pattern	Length
<input type="checkbox"/>	S0	Matching: inventoried → A, Non-Matching: inventoried → B	EPC	16		0
<input type="checkbox"/>	S0	Matching: inventoried → A, Non-Matching: inventoried → B	EPC	16		0
<input type="checkbox"/>	S0	Matching: inventoried → A, Non-Matching: inventoried → B	EPC	16		0
<input type="checkbox"/>	S0	Matching: inventoried → A, Non-Matching: inventoried → B	EPC	16		0
<input type="checkbox"/>	S0	Matching: inventoried → A, Non-Matching: inventoried → B	EPC	16		0
<input type="checkbox"/>	S0	Matching: inventoried → A, Non-Matching: inventoried → B	EPC	16		0
<input type="checkbox"/>	S0	Matching: inventoried → A, Non-Matching: inventoried → B	EPC	16		0
<input type="checkbox"/>	S0	Matching: inventoried → A, Non-Matching: inventoried → B	EPC	16		0

Query

③ Sel: All Session: S0 Target: A or B

④ Edit ⑤ Save

① Use Select Mask

Set if Select mask shall be used or not.

② Select Mask Parameters


- Use: set if parameter shall be used or not.
- Target: the subject to be changed by Action.
- Action: conditions and methods to change Target.
- Bank: Memory Bank whose masking pattern is compared to
- Offset: address whose masking pattern is compared to (by bit)
- Pattern: masking pattern compared to Tag (Hex string)
- Length: the length of data compared among the data input in Pattern (by bit)

③ Query

- Sel: set select flag of Tag to respond to Query.
- Session: set session to be used in inventory round.
- Target: set the inventoried flag to be used in inventory round.

④ Edit

Edit the contents of select mask parameter selected in the second item.

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Select Mask Item

Target

S0

Action

Matching: inventoried → A, Non-Matching: inventoried → B

Bank

EPC

Offset

16

Length

16


Pattern

3000

OK

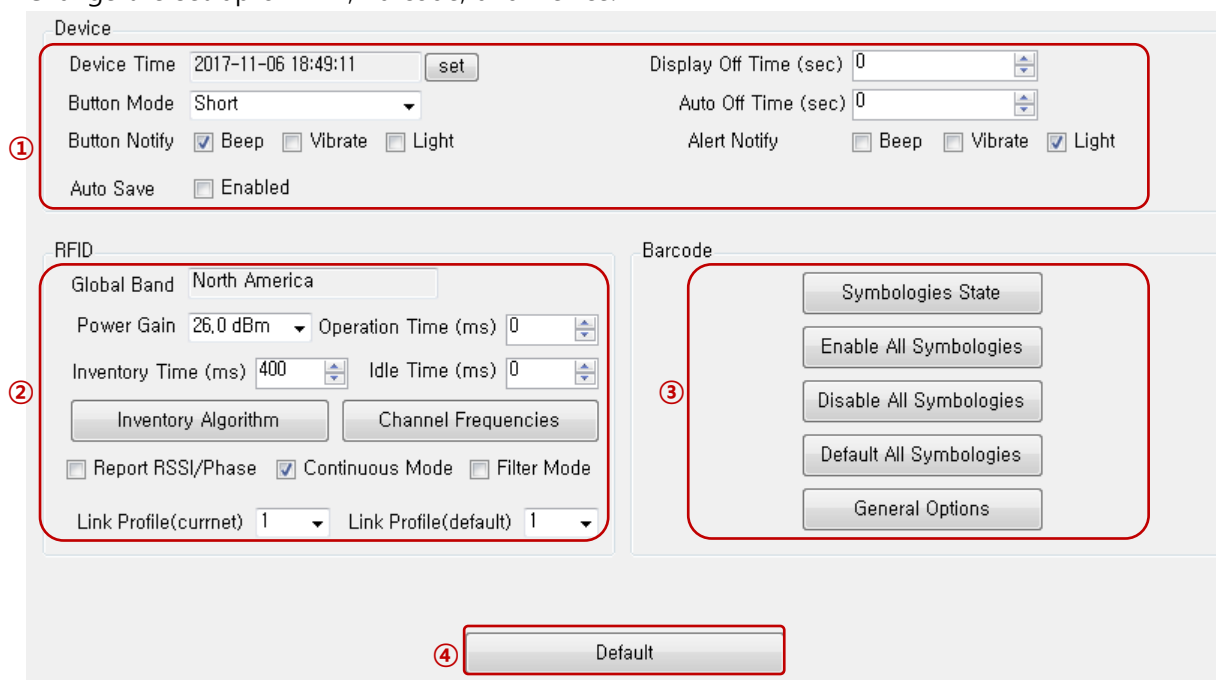
Cancel

- ⑤ Save
- store the current set-up status of Select Mask into Device.

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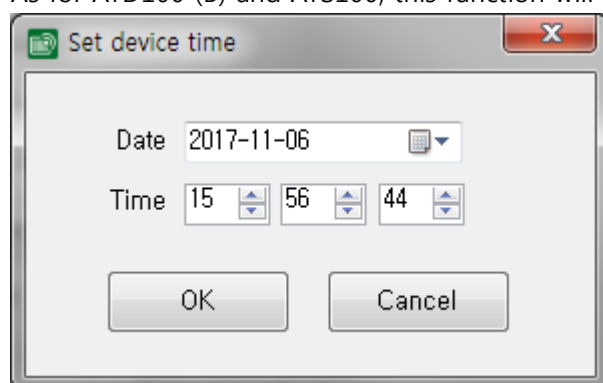
8. Options

Change the set-up of RFID, Barcode, and Device.




① Device

- Device Time: change the set-up time of Device.
Window for changing the set-up time will appear if clicking Set Button.
As for ATD100 (B) and ATS100, this function will not be provided.



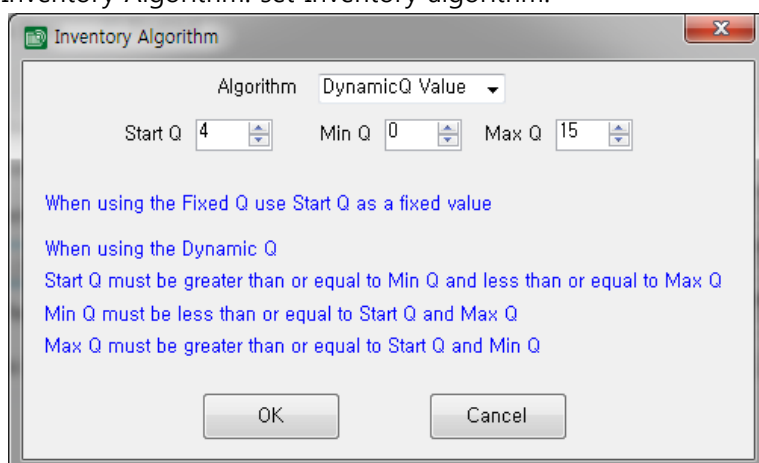
- Button Mode: set the button operation sound and the length of vibration for Device.
As for ATD100 (B), this function will not be provided.
- Button Notify: set the alarm method when the button of Device is pressed.
As for ATD100 (B), this function will not be provided.

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- Display Off Time: waiting time until Display turns off (by second)
As for ATD100 (B) and ATS100, this function will not be provided.
- Auto Off Time: waiting time until Device turns off (by second)
- Alert Notify: set the alarm method when Event occurs.
Vibration function will not be provided for ATD100 (B) but Light function not for ATS100.
- Auto Save: decide on whether the data read will be stored in Device Memory.
As for ATD100 (B) and ATS100, this function will not be provided.

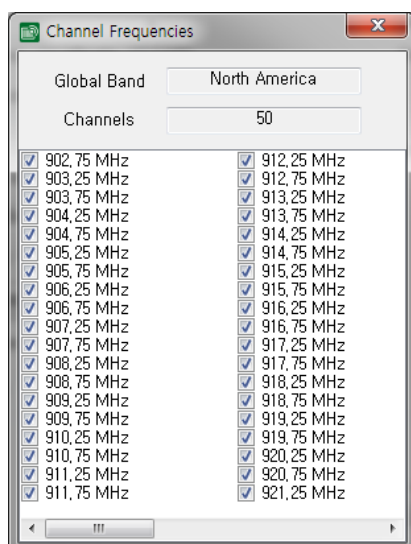
② RFID

- Global Band: it displays country setting set in RFID module.
- Power Gain: set antenna output level.
- Operation Time: set performance time for command (by millisecond)
you shall perform until the completion of command performance or the cease of the use of user when the set-up of value is zero.
- Inventory Time: set the time for antenna to send wave during Inventory round.
(by millisecond)
- Idle Time: set the time for antenna not to send wave during Inventory round.
(by millisecond) Inventory round.
- Inventory Algorithm: set Inventory algorithm.



- Channel Frequencies: it displays the frequency used in RFID module (unable to be changed)

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- Report RSSI/Phase: sets the set-up able to read not only Tag data but the value of RSSI and Phase additionally when conducting Inventory.
- Continuous Mode: sets the set-up for either once reading or continual reading when conducting Inventory.
- Filter Mode: sets the set-up able to determine whether the unrepeat Tag data as the result of performance of Inventory will be received or not. Once event in regard to one Tag occurs when Filter Mode is On, but several events occur when it is Off.

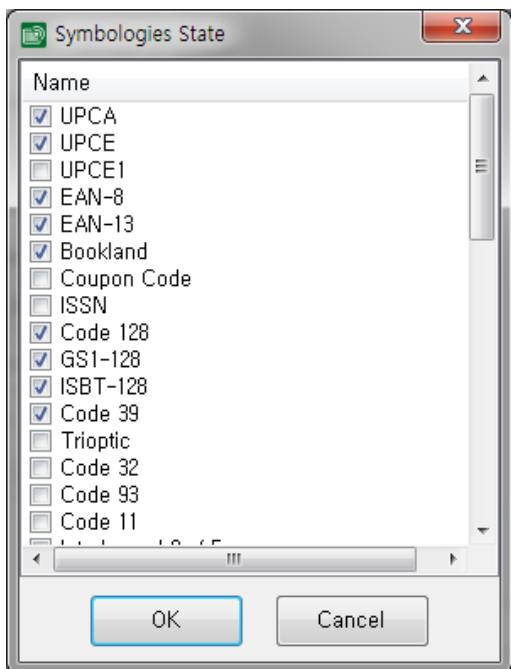
As fir ATS100, this function will not be provided.

- Link Profile (current): sets Link Profile Index being used in RFID module.
You may set the range from 0 up to 3 and it returns back to default when the module of RFID is Reset.
As for ATD100 (B) and AT188N, this function will not be provided.
- Link Profile (default): sets Link Profile Index being used in RFID module.
You may set the range from 0 up to 3 and value will remain when the module of RFID is Reset.
As for ATD100 (B) and AT188N, this function will not be provided.

③ Barcode

- Symbologies State: sets the state of Enable of Barcode Symbol.
It will display the page for Symbol in details when clicking Symbol Name twice.
For details, refer to Barcode Engine documents.

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- Enable All Symbologies: enables all Barcode Module recognizable Symbols.
- Disable All Symbologies: disables all symbols.
- Default All Symbologies: return the Enable state of Symbols to initial value.
- General Option: sets the general contents of Barcode Engine.

④ **Default**

- Default: return the contents of the set-up for Device to initial value.