ATS-100

User Guide

AXEM Technology
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1 Background

Description	Date	Version	Author	Auditor
First parution	25/04/2019	V1.0	EAM	CLO, ACA

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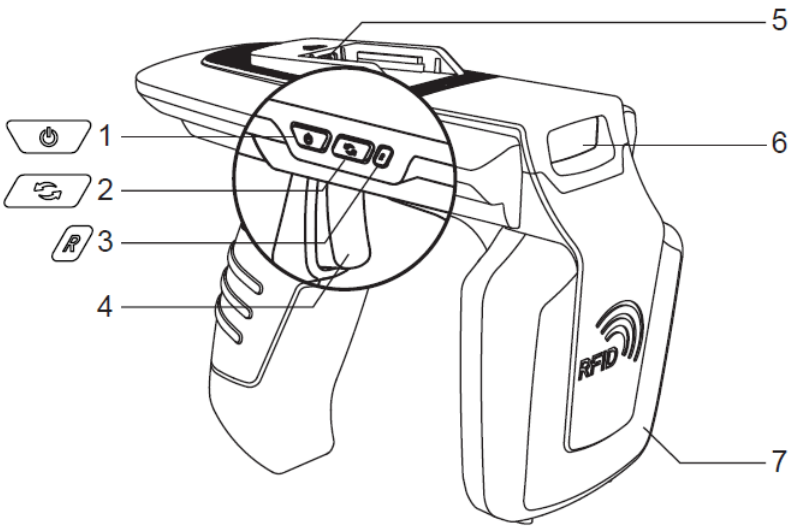
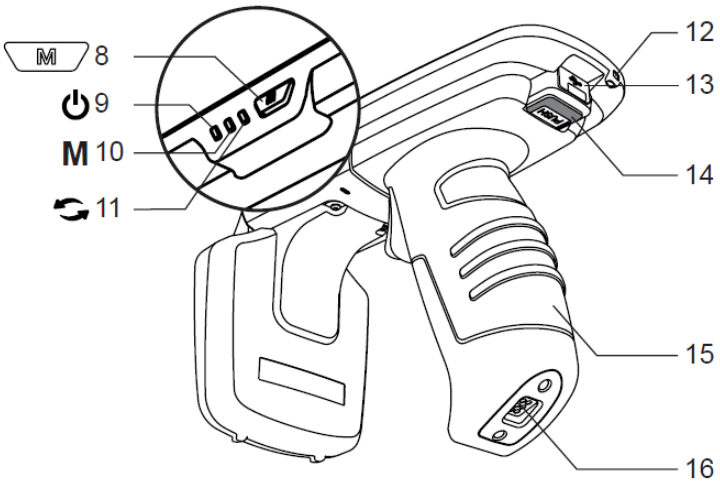
2 Reader composition

1- Power Button
2- Switch to Communication mode
3- Reset Button
4- Trigger
5- QUAD LOCK Connection Port
6- 2D Barcode Scanner
7- UHF
8- Barcode / RFID Switch Button
9- Charge Indicator
10- Barcode / RFID Indicator
11- Communication Mode Indicator
12- Hand strap Hole
13- Sync Cable Connector
14- Gun Handle Removal Button
15- Gun Handle (with battery)
16- Cradle Connector





Caution

Do not connect any other such as USB than supplied QUAD LOCK to QUAND LOCK Connection port, it may cause malfunction of the Device.

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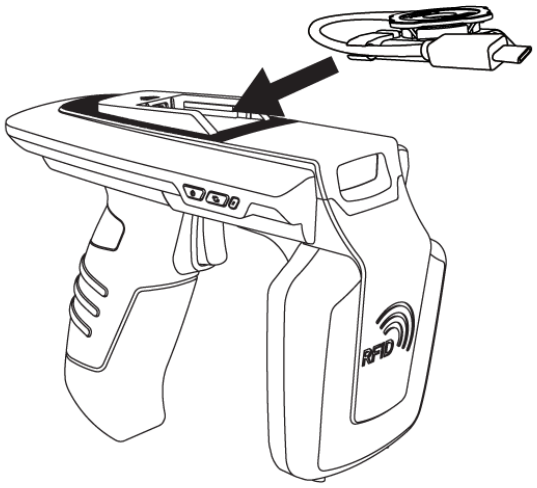
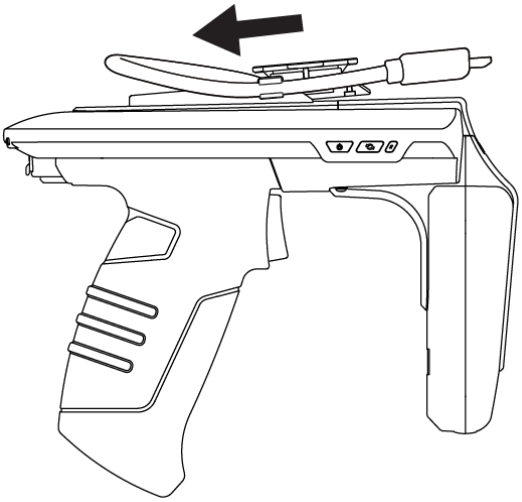
3 QUAD LOCK Mounting

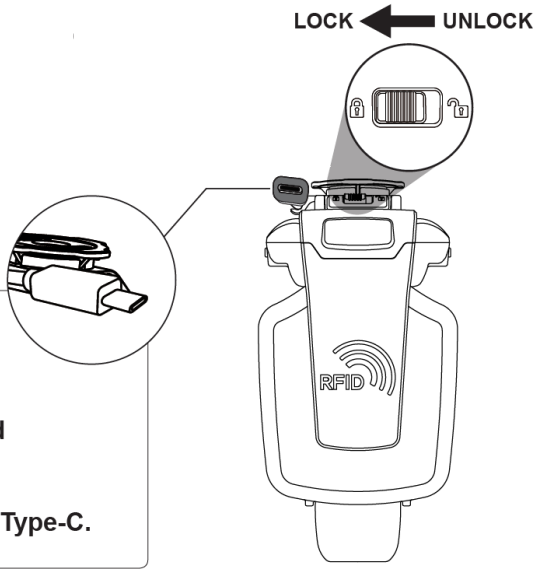
- The QUAD LOCK contacts need to be face dowr at the top of the device to meet the contacts.



- The QUAD LOCK direction to push



- The QUAND LOCK can be locked



QUAD LOCK® Type

Type-C **Micro USB**

We may provide USB Type-C and Micro USB.

***The standard USB cable will be Type-C.**

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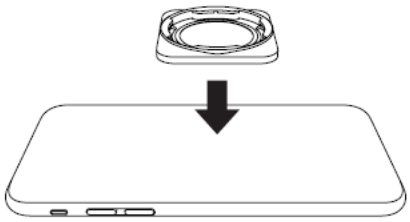
4 Smart Phone Mounting

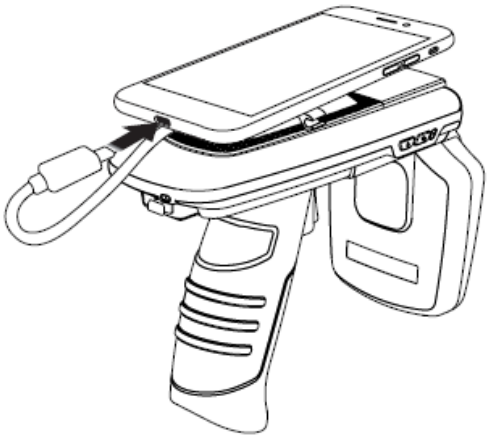
- Ensure the phone is fitted into its QUAD LOCK case before attaching the case to the ATS100



- Make sure all of the contacts on both the QUAD LOCK socket

- Align the phone towards 45 degrees into the right place

- To put USB cable Phone USB Port



Notice
If you don’t want to use USB, it’s not mandatory to use it.

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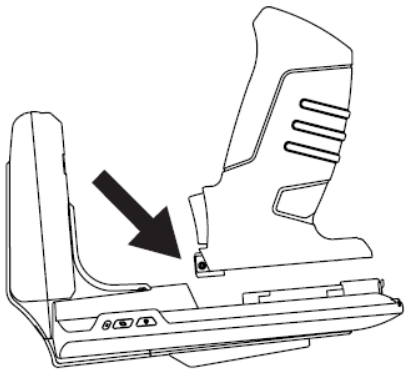
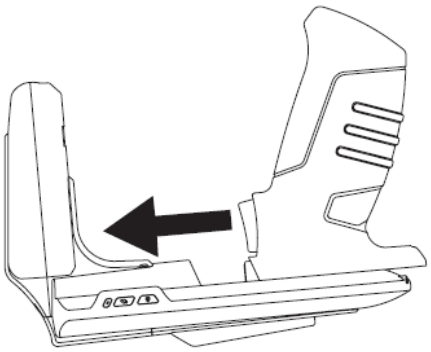
5 Gun Handle

5.1 Gun Handle Mounting

1- The Gun Handle needs to be face down at the device to meet the right place

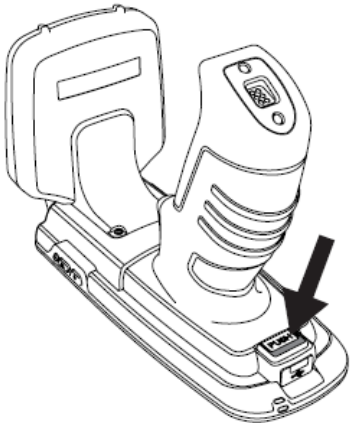


2- Push the gun to the left side to mounting the gun

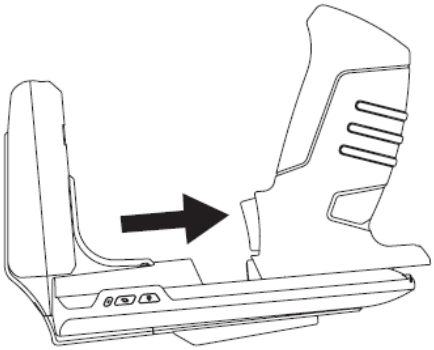


5.2 Gun Handle Removal

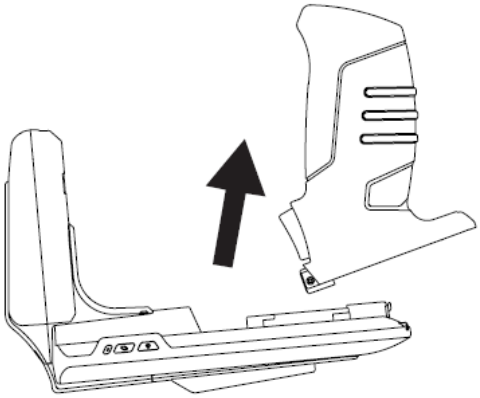
1- Press removal button



2- Pull out the gun to the right side to release it



3- Pull up the gun to release completely



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6 Displaying LED

Charging Indicator

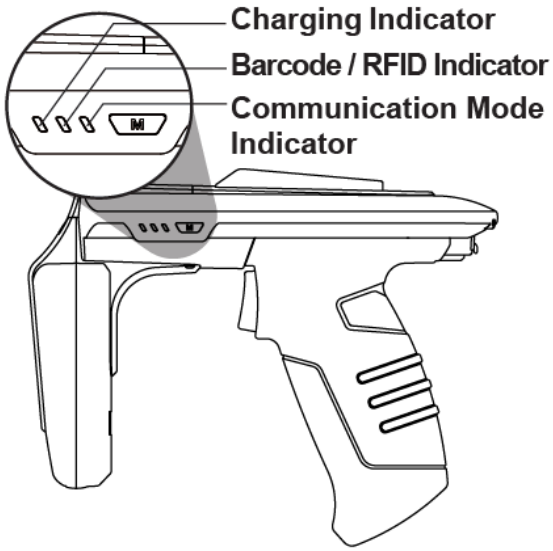
- Red LED Blink: Low Battery
- Red LED ON: Charging
- Green LED ON: Charging Complete

Barcode / RFID Indicator

- Blue LED ON: Barcode Mode
- Blue LED Blink: Trigger Input Mode
- Blue LED OFF: RFID Mode

Communication Mode Indicator

- Green LED Blink: Bluetooth Mode
- Red LED Blink: USB Mode



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7 Operation of the basic buttons

7.1 Power ON

Press Power button (⏻) the release with beep

7.2 Power OFF

Press Power button (⏻)

7.3 Communication Mode Setting

Press arrow button (🔄) to connect the device to the Bluetooth or USB mode. (Switching mode will take a couple of seconds).

7.4 Barcode and RFID setting

Press M – Barcode mode, RFID and Trigger scanning mode.

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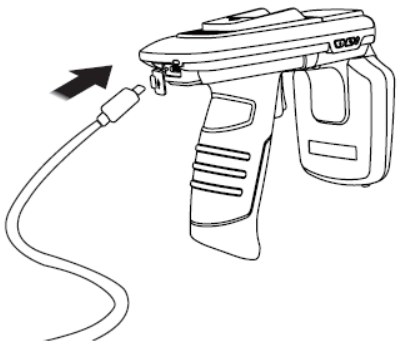
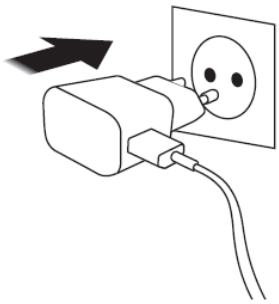
8 Charging device

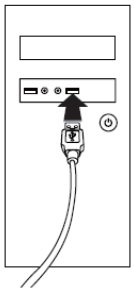


You can load your device in 3 different ways.

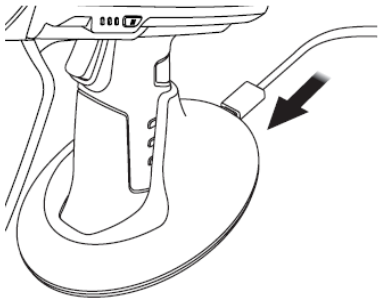
- Input Charging Connector to socket



- Input USB Connector to PC



- Input USB Connector behind Cradle and input adapter to socket



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9 Using Android phone

9.1 Bluetooth

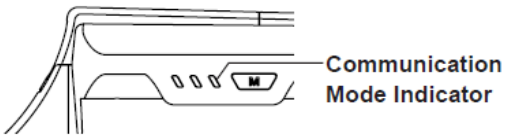
9.1.1 Bluetooth holder

Important
Ensure Bluetooth setting should be ok before trying to connect the reader.

iPhone use BLE Mode
Android, Windows use SPP Mode or HID Mode

Indication by Bluetooth Mode

- Green LED Blinks Fast: BLE Mode
- Green LED remains ON: HID Mode
- Green LED blinks every 2 seconds: SPP Mode



1- Press the button (⏻) to turn on the power
2- Press the Communication Mode (🔄) to Set Indicator to Blink/ON in Green. (Set to Bluetooth Mode)
3- Each time you press the Barcode/RFID Switch button **(M)**, the BLE/HID/SPP Mode Switches sequentially
4- Press and hold the power button (⏻) until the buzzer sounds to complete the Setting

9.1.2 Bluetooth Data Communication Mode

9.1.2.1 Connection

Ensure the application for Android is installed on the mobile.
Installation SDK: http://www.atid1.com

Notice
Before trying to connect to the mobile, it must be enable from Android Vers.4.2 (Jelly Bean).
To be recommended ver 6.0 (Mashmallow) for activation.

1- Press the Reader application
2- Press “YES” to complete Bluetooth connection
3- Press “New Device”
4- Press “Scan Device”
5- Press the correct device on the New Devices list
6- Press (⊙)
7- Press “Connect”
8- Press “OK” then it can be connected to ATS100 with beep

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9.1.2.2 Disconnection / Delate

1- Select (⊙) in the right hand side arrow
2- Select “Disconnect” / “Delate” with beep

9.2 USB

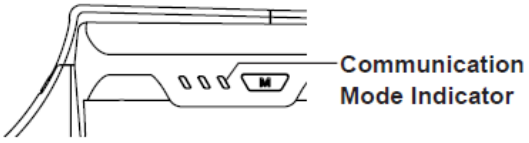
9.2.1 USB holder

Important
Ensure USB setting should be ok before trying to connect the reader.

iPhone unable to support
Android, Windows use VCP Mode or HID Mode

Indication by USB Mode

- Red LEED Blinks every 2 seconds: VCP Mode
- Red LED remains ON: HID Mode



1- Press the button (⏻) to turn on the power
2- Press the Communication Mode (🔄) to Set Indicator to Blink/ON in Red. (Set to USB Mode)
3- Each time you press the Barcode/RFID Switch button (M) the VCP/HID Mode Switches sequentially
4- Press and hold the power button (⏻) until the buzzer sounds to complete the Setting

9.2.2 USB Data Communication Mode

9.2.2.1 Connection

Ensure the application for Android is installed on the mobile.
Installation SDK: http://www.atid1.com

Notice
Before trying to connect to the mobile, it must be enable from Android Vers.4.2 (Jelly Bean).
To be recommended ver 6.0 (Mashmallow) for activation.

1- Put USB Cable to Phone USB Port (page 5)
2- Press the Reader application
3- Press “YES” to complete Bluetooth connection
4- Press “New Device”
5- Select “USB”
6- Press “Scan Device”
7- Press the correct device on the New Devices list
8- Press (⊙)
9- Press “Connect”
10- Press “OK” then it can be connected to ATS100 with beep

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8.2.2.1 Disconnection / delate

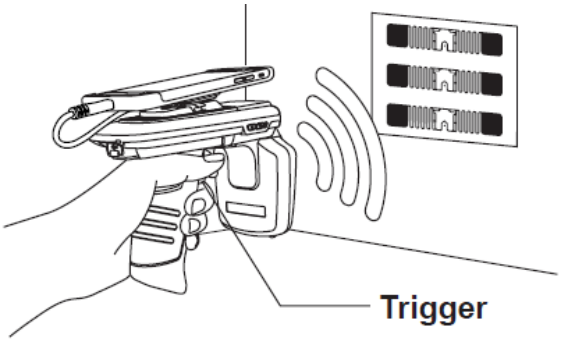
1- Select (⊙) in the right hand side arrow
2- Select “Disconnect” / “Delate” with beep

8.3 RFID UHF scanner

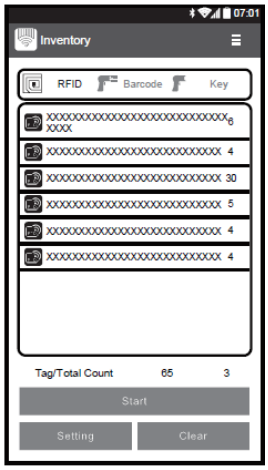
To scan RFID tags, ensure connection to Android device via Bluetooth or USB

1- Select guided arrow area

2- Select “RFID”
3- Select start or pull trigger
4- Select “Stop” or release Trigger it will stop scanning Tag



5- View list of scanned data



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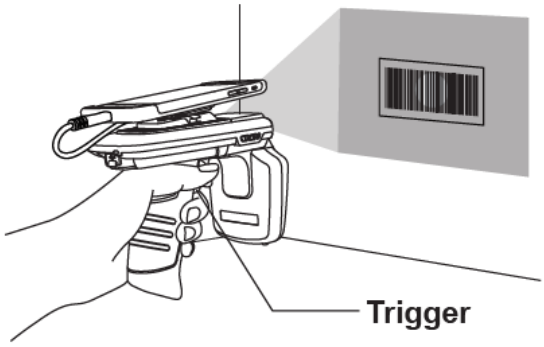
8.3 Barcode scanner

To scan Barcode, ensure connection to Android device via Bluetooth or USB

1- Select guided arrow area

2- Select “Barcode”
3- Select start or pull trigger
4- When the Barcode is within the scan range, the Barcode can be read.



5- View list of scanned data

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10 Using iPhone

10.1 Bluetooth

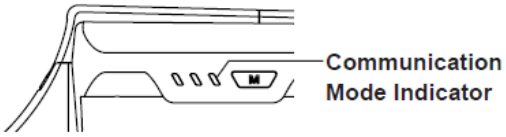
10.1.1 Bluetooth holder

Important
Ensure Bluetooth setting should be ok before trying to connect the reader.

iPhone use BLE Mode
Android, Windows use SPP Mode or HID Mode

Indication by Bluetooth Mode

- Green LED Blinks Fast: BLE Mode
- Green LED remains ON: HID Mode
- Green LED blinks every 2 seconds: SPP Mode



5- Press the button (⏻) to turn on the power
6- Press the Communication Mode (🔄) to Set Indicator to Blink/ON in Green. (Set to Bluetooth Mode)
7- Each time you press the Barcode/RFID Switch button **(M)**, the BLE/HID/SPP Mode Switches sequentially
8- Press and hold the power button (⏻) until the buzzer sounds to complete the Setting

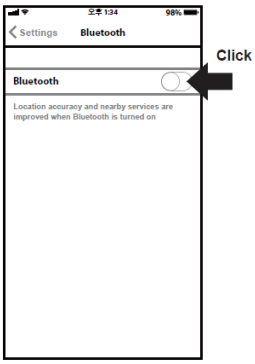
10.1.2 Bluetooth Data Communication Mode

10.1.2.1 Connection

Ensure the application for Android is installed on the mobile.
Installation SDK: http://www.atid1.com

Important
Ensure the ATS100 Bluetooth Mode with BLE

1- Go to settings and Tag on the Bluetooth to be taken Bluetooth mode



2- Press the Reader application

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3- Press “New Device” to complete Bluetooth Connection
4- Awaiting list on the device
5- Press the correct device to be connected with beep

10.1.2.2 Disconnection

1- Select (⊙) in the right hand side arrow
2- When the buzzer sounds and the color of the (⊙) changes to blue, the connection is released

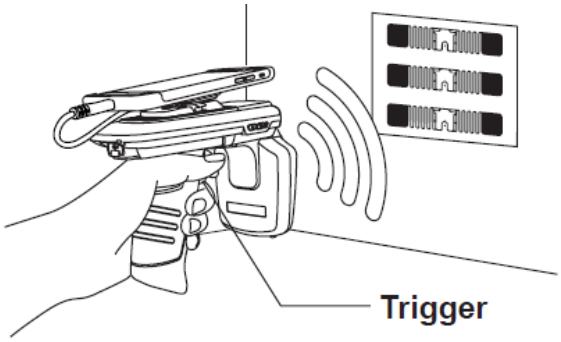
10.1.2.3 Delate

3- Select (⊙) in the right hand side arrow
4- Click “OK”

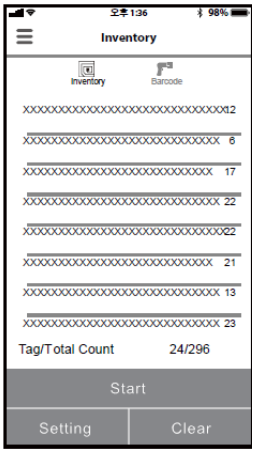
10.2 RFID UHF Scanner

Ensure connection to iOs Device via Bluetooth

1- Click on " Inventory "
2- Select “Start” or pull Trigger
3- Select “Stop” or release Trigger it will stop scanning Tag



4- View list of scanned data



10.3 Barcode scanner

Ensure connection to iOs Device via Bluetooth

1- Click " Barcode "

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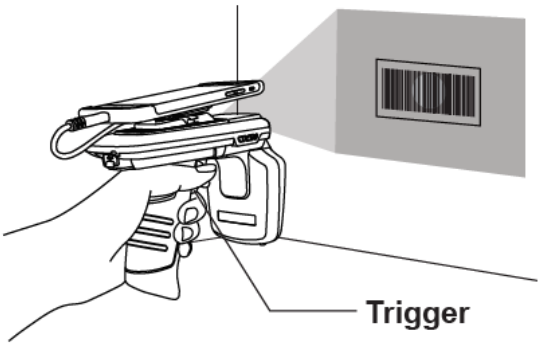
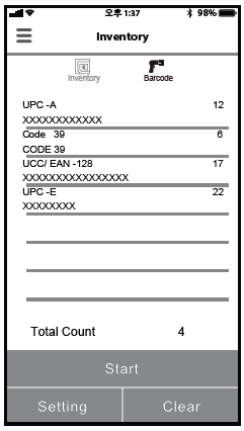
2- Select “Start” or pull Trigger
3- When the barcode with the scan range, the barcode can be read



4- View list of scanned data



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11 Using Windows

11.1 Bluetooth

11.1.1 Program

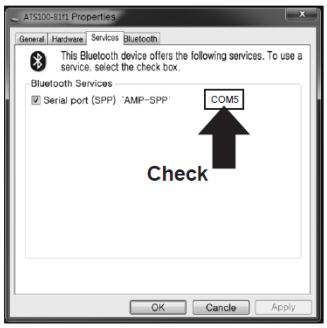
Ensure the program for Windows is installed in the PC.
Installation SDK: http://www.atid1.com

Important
Ensure the ATS100 Bluetooth mode with SPP.

Notice
Ensure ".NET Framework 3.5" installed in the PC.

1- Start
2- Devices and Printers
3- Add device (Only with Windows 7)
The wireless devices will appear accompany by relevant device information.
4- Select ATS100-XXXX
5- Select Next
Following procedure can be paired device.
(For Windows10, go to the next page).

6- Properties
7- Service: Remember Port name



11.1.2 Connection

1- Launch Program

2- Select ATS100 in product list

Important
Ensure Port name, communication type, paring status and installation driver.

3- The selected Device will be the same Port name by properties

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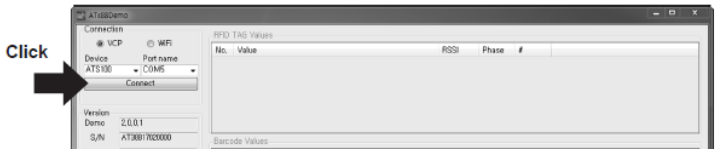
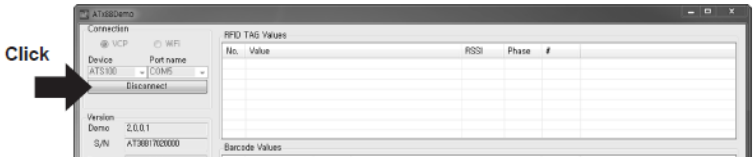
4- Click “Connect” then the Device will be Connected with beep



11.1.1 Disconnection

Click « Disconnected » then the Device will be disconnected with beep



11.2 USB

11.2.1 USB connection

Ensure the program for Windows is installed in the PC.
Installation SDK: http://www.atid1.com

Important
Ensure the ATS100 USB mode with VCP.
(See settling USB communication on page 10)

Notice
Ensure “.NET Framework 3.5” installed in the PC.

1- Input USB connector to ATS100 and to PC
2- The selected device will be the same Port name by properties
3- Launch Demo Program
4- Select ATS100 in product list

Important
Ensure Port name, Communication Type, paring status and installation driver.
Ensure USB driver for Windows is installed in the PC.
Installation: www.atid1.com

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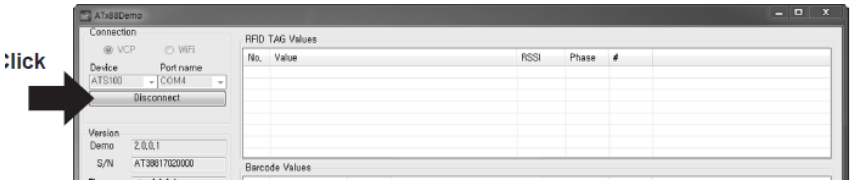
5- The Selected Device will be the same Port name by properties

6- Click “Co

11.2.2 USB disconnection

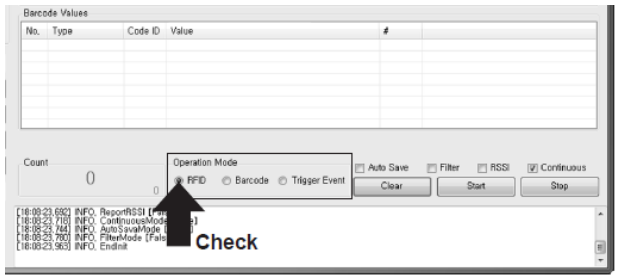
1- Click “Disconnect” then the device will be disconnected with beep



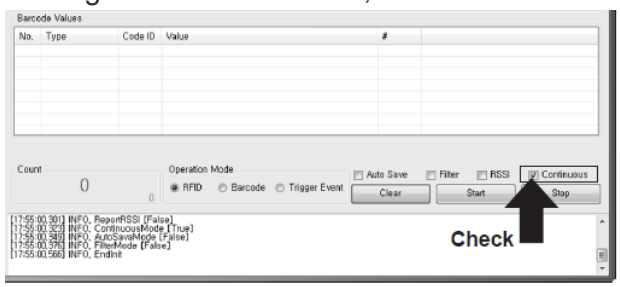
11.3 RFID UHF scanner

Ensure Connection to Windows via Bluetooth or USB

1- Ensure Operation mode is RFID



2- If you don’t want to detect Tag in continuous Mode, deselect “Continuous”



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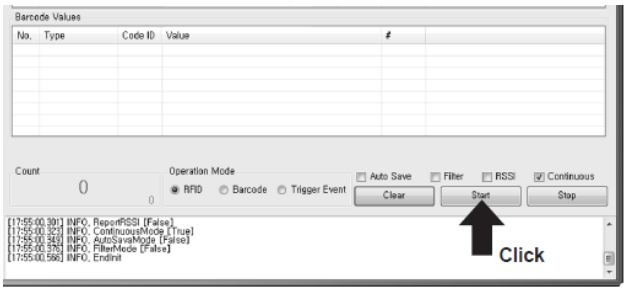
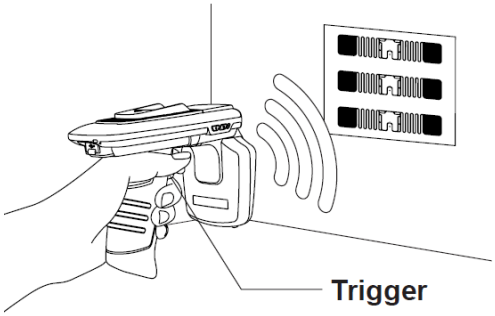
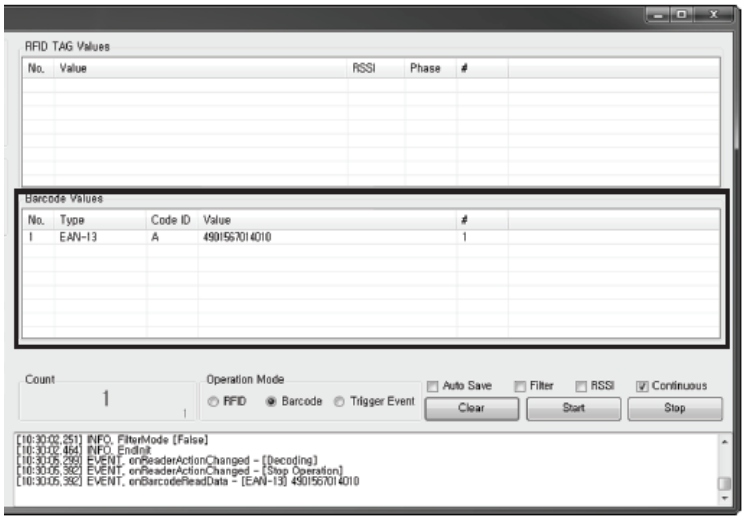
3- Select “start” or pull trigger



4- Select stop or release Trigger, the scan will stop



5- View list of scanned data



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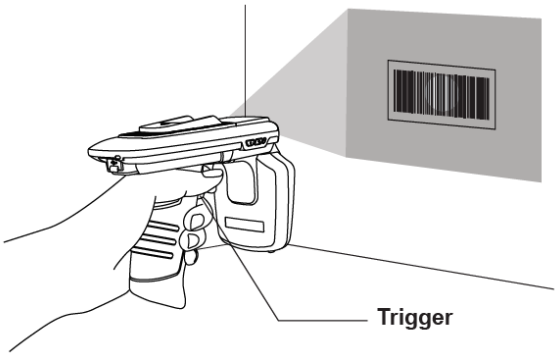
11.4 Barcode scanner

Ensure connection to Windows via Bluetooth or USB

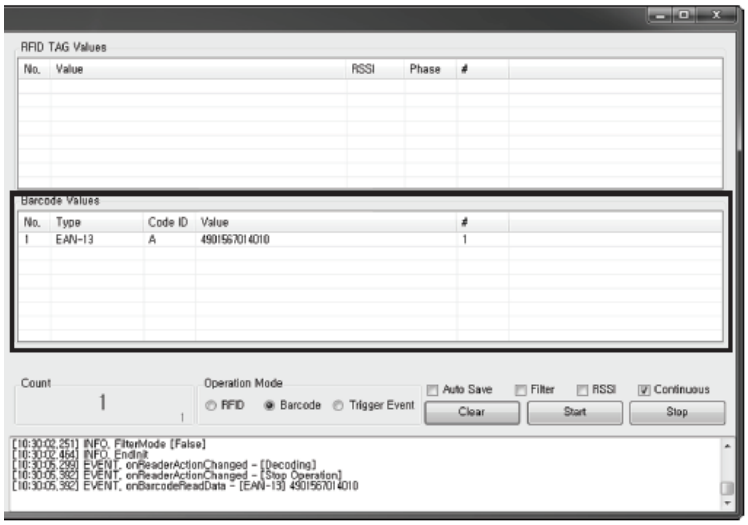
1- Select “Barcode” in Operation Mode

2- Select “Start” or pull Trigger

3- The Barcode will be scanned in range



4- View list of scanned data



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