ZEBRA TECHNOLOGIES

ZQ110

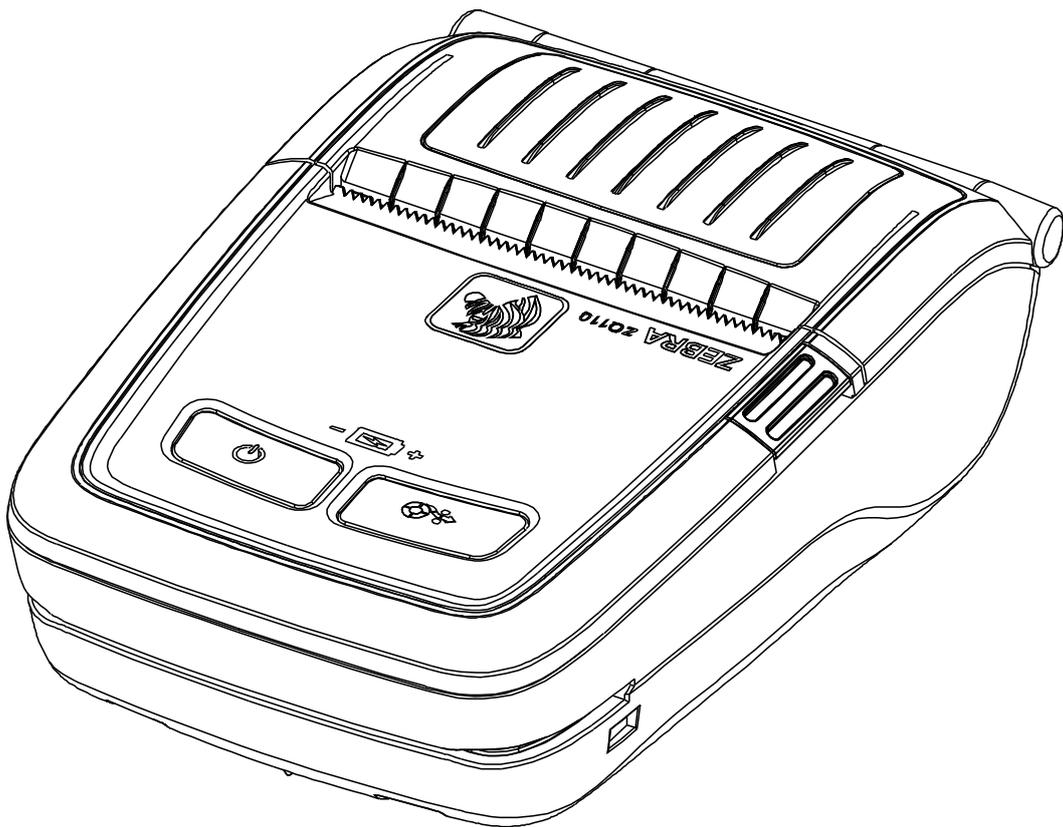# Mobile Printer Android Utility Manual

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NOTE: This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference with radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and the receiver.
• Connect the equipment to an outlet or circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.
WARNING: Exposure to Radio Frequency radiation. To conform to FCC RF exposure requirements this device shall be used in accordance with the operating conditions and instructions listed in this manual.
NOTE: This unit was tested with shielded cables on the peripheral devices. Shielded cables must be used with the unit to ensure compliance.
Changes or modifications to this unit not expressly approved by Zebra Technologies Corporation could void the user's authority to operate this equipment.

Canadian Compliance Statement
This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme á la norme NMB-003 du Canada.
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1. Manual Information

This manual contains information about Android utility applications for the Zebra ZQ110 printer used in Android environment.

Android Utility Application has the following functions.

1) VMSM(Virtual Memory Switch Manager)
This function is used to set the virtual memory switch used for the thermal printer suitable for the user's environment.

2) NV Image Tool(Non-Volatile Image Tool)
This function helps you download user-defined images to the flash memory in the printer and to recall and print those images with fast speed.

3) FDU(Firmware Download Manager)
This function is used to download and install the latest Firmware, which is subject to ongoing modification for the enhancement of product performance (Firmware Download Manager)
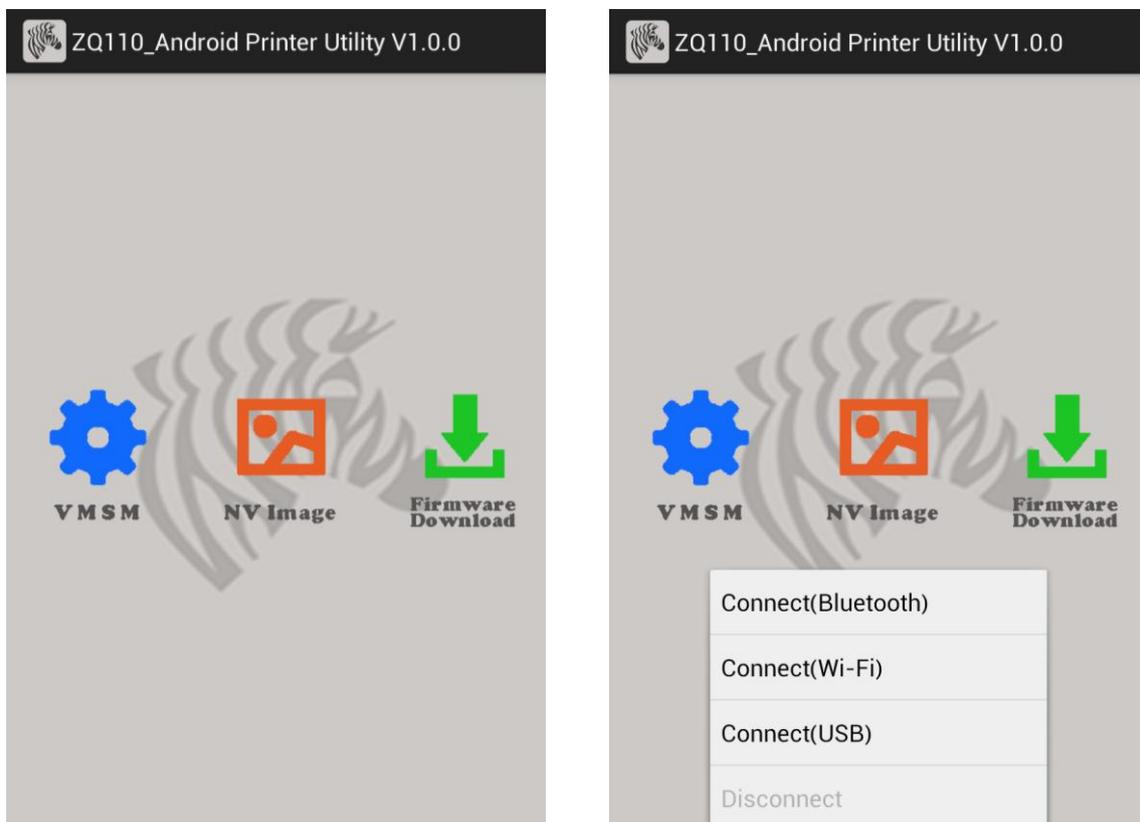
2. Usage Environment

2-1 Operating System (OS) Environment

Supported Android OS version is 3.1 or later.

3. Detailed Functions

3-1 Setting the Interface Type

Types of interfaces are Bluetooth, WLAN and USB.

3-2 Selecting Interface Type: Bluetooth®

✎ *NOTE –* The Android device and the printer must be connected before selecting Connect (Bluetooth) from the utility. Please refer to the section Miscellaneous > Bluetooth Connection at the end of this document for instructions for connecting your devices via Bluetooth.

1) Select Connect (Bluetooth) from the main screen.
2) Select the Bluetooth address of your printer.
   The Bluetooth address of the printer can be obtained from RF Interface > Bluetooth BD address in the self-test printed data.

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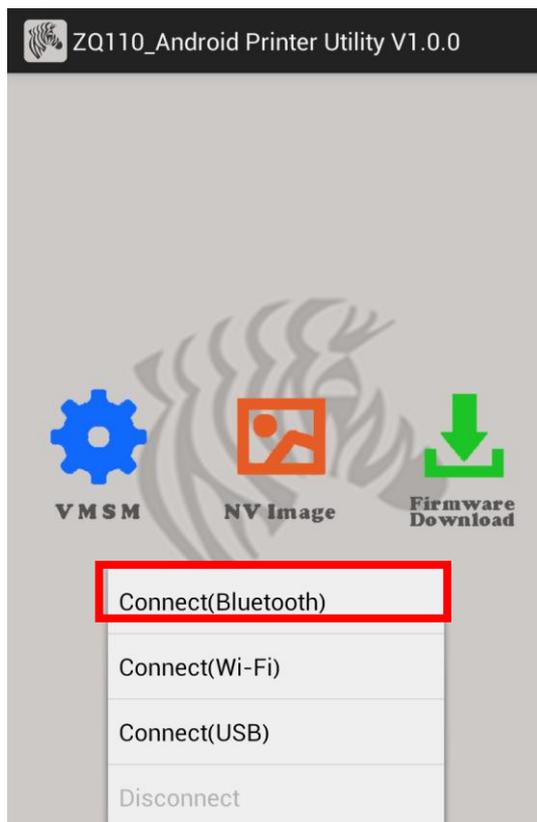
3-3 Selecting Interface Type: WLAN

📝 *NOTE –* The wireless network connection must be established with your Android device before selecting Connect (Wi-Fi). Refer to your device's user manual for instructions on how to connect to a wireless network.

1) Select Connect (Wi-Fi) from the main screen.
2) Select the IP address of the printer.
   The IP address of the printer can be obtained from **WLAN SETTINGS > IPADDR** in the self test printed data.
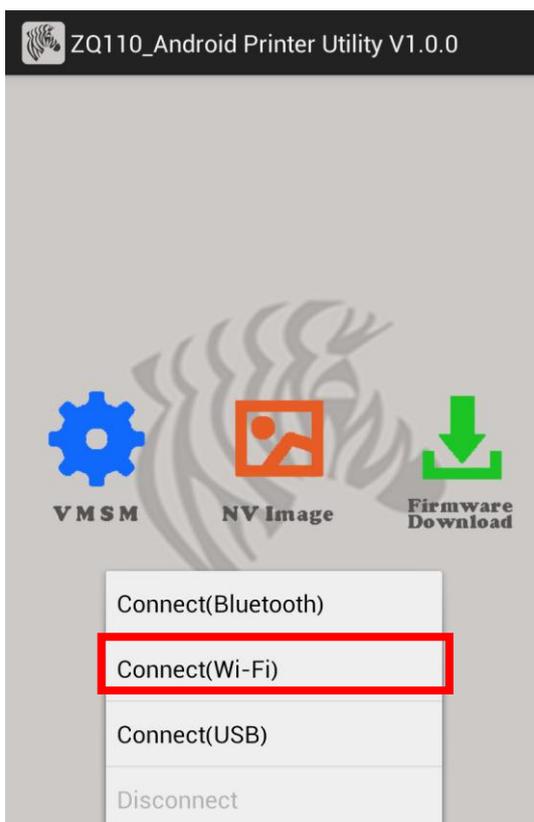
3-4 Selecting Interface Type: USB

1) Connect your Android device to your printer with a USB cable.

✎ *NOTE –* Make sure the correct end of the cable is inserted into the slot on the device and the printer. Damage to the devices and the cable may result if the USB adaptor is inserted incorrectly. Refer to the devices' user manual for further information.

2) Select the Device name from the Device list.
3) The device information displays on the application
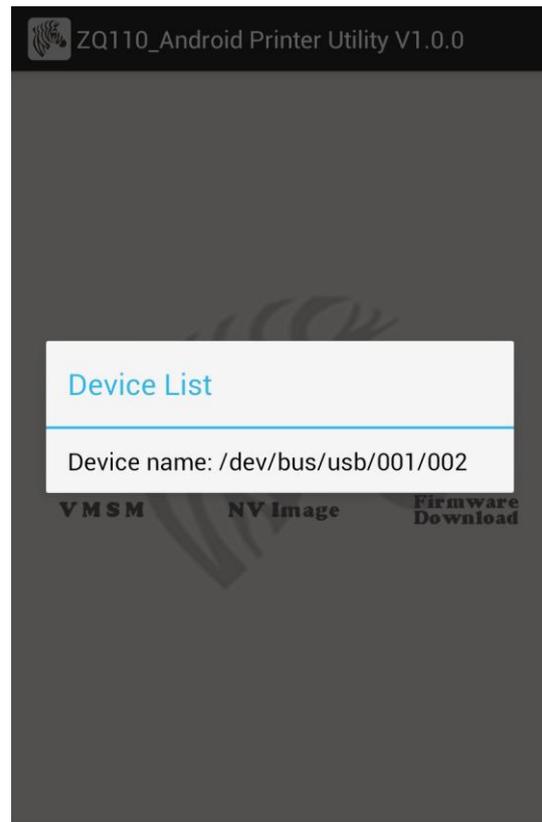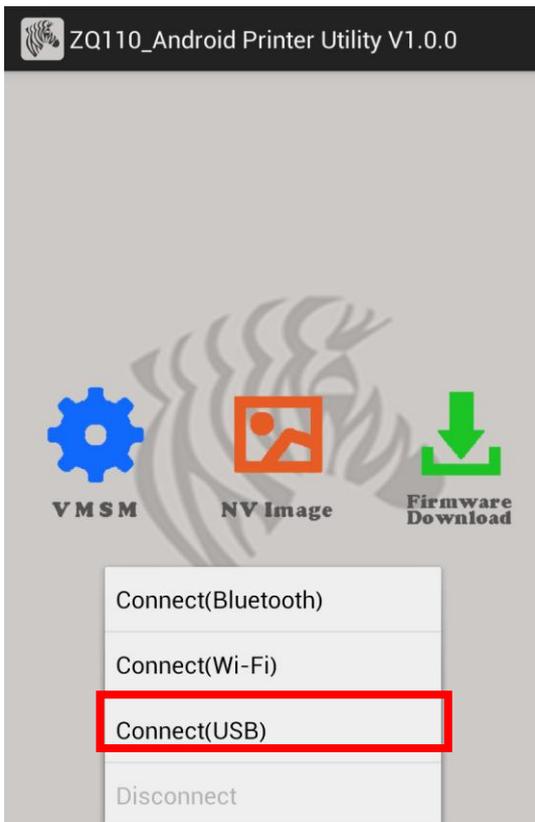
3-5 VMSM (Virtual Memory Switch Manager)
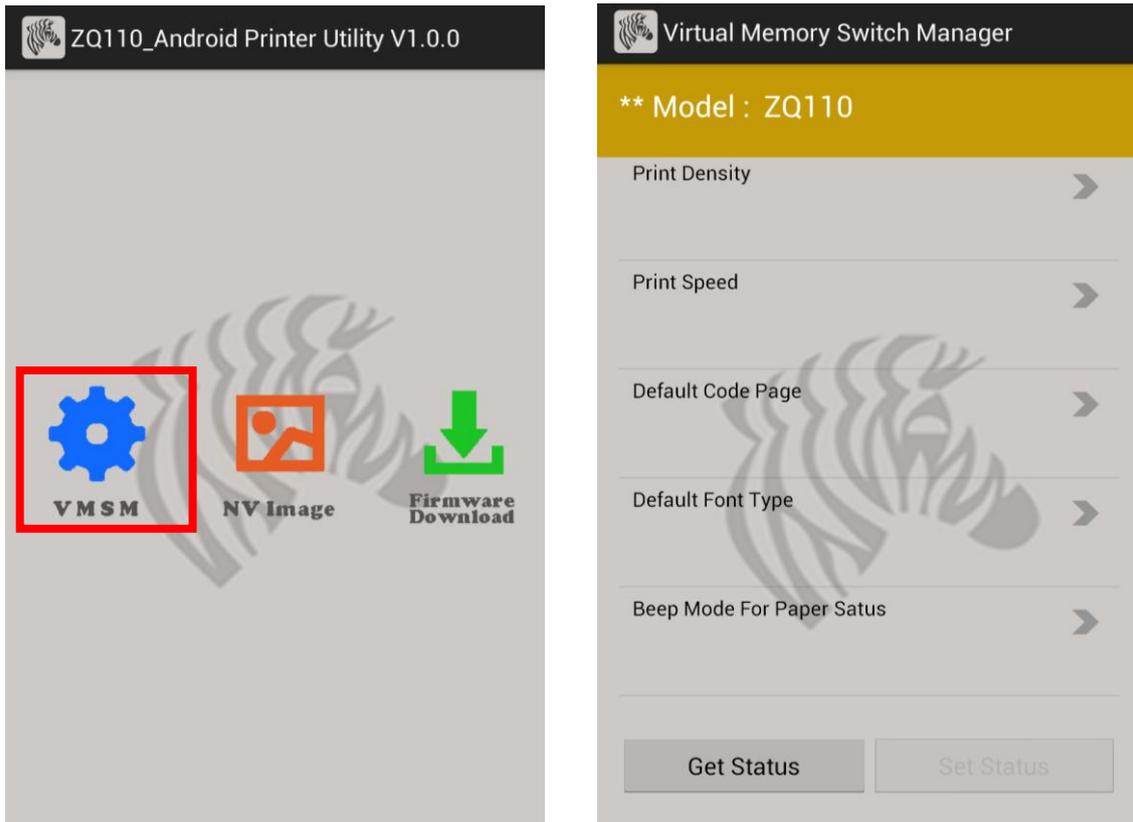
1) Get Status

Information of the Virtual Memory Switch of the connected printer is displayed on the screen.

2) Set Status

Review the table below. Select the desired functions, then select **Set Status** to change the settings of the printer.

3) Itemized description

Function	Description
Print Density	Sets printing density Value range: 80-150%
Print Speed	Sets printing speed Value range: 50 or 90 mm/s
Default Code Page	Sets the default code page (Refer to the *Code Page Manual* for more detailed information on the Code Pages supported.)
Default Font Type	Sets default font type and size
Beep Mode for Paper Status	Sets no beeping or beeping when reaching paper roll end
Beep Mode for Low Battery Status	Sets beeping when reaching low battery capacity
Auto Power Off Time	Sets time interval between absence of printer use and automatic turning off of printer power
Auto Power Saving Time	Sets time interval for automatic entering into power saving mode while the printer is in use
MSR Trigger	Sets MSR data scanning mode, 7 modes supported (Refer to "*GS (E*" in the "*Command Manual*".)
Black Mark	Black Mark change receipt mode or black mark mode.

3-6 NV Image Tool

1) Image Download

Move the scroll bar below the image to adjust the brightness of the image.
Press the Download button then the list of images stored in the printer will be displayed
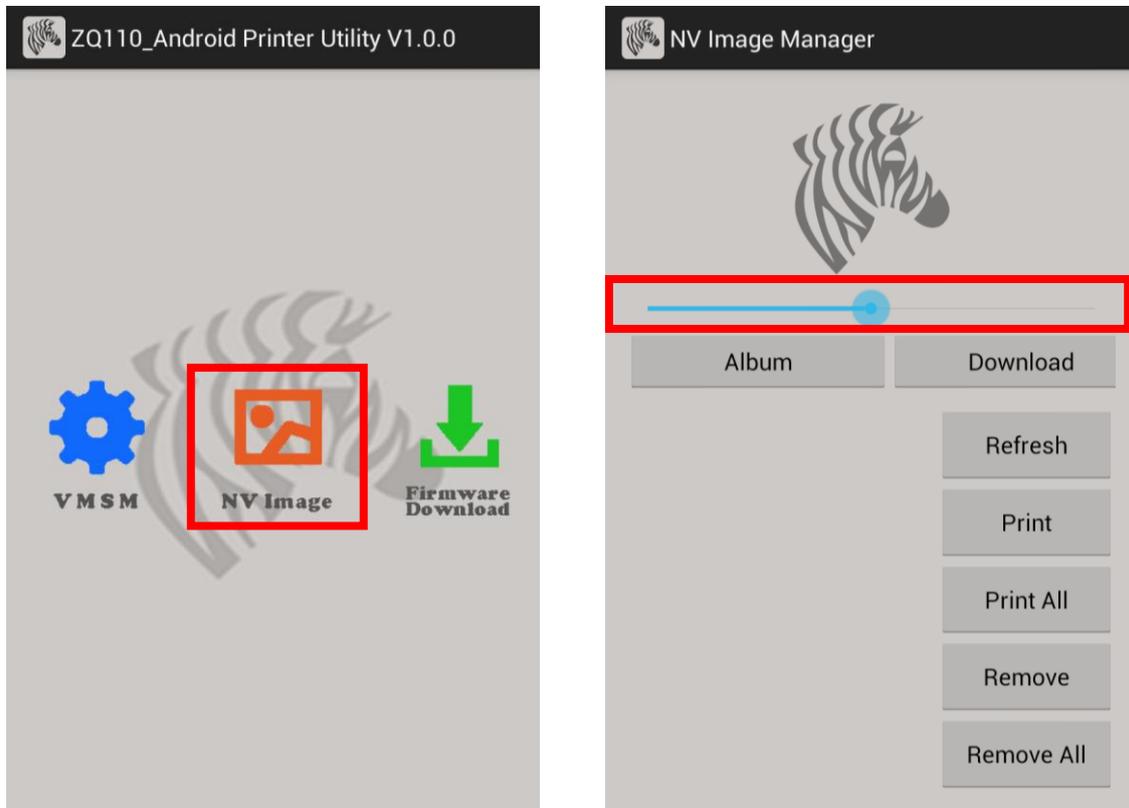
   ▪ **Album:** Load the image stored on the SD card.
   ▪ **Download:** Download the image to the printer.
   ▪ **Refresh:** Update the list of image stored in the printer
   ▪ **Print**: Print the selected image.
   ▪ **Print All**: Print all images in the list.
   ▪ **Remove**: Deleted the selected image.
   ▪ **Remove All**: Delete all images in the list.

3-7 Firmware Download

The only download file format is ".fls" and ".bin".
*Printer must be restarted after finishing downloading.

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4. Miscellaneous
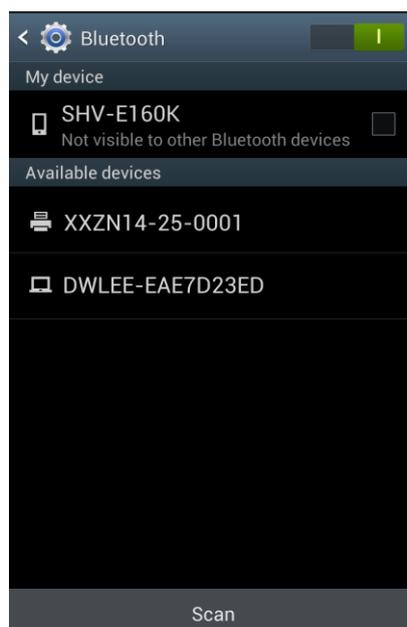
4-1 Bluetooth Connection

1) Turn on the printer power.
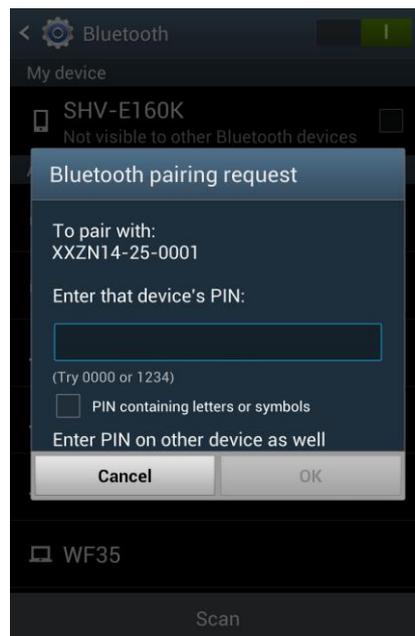
2) Select [Environment Setting] - [Bluetooth].

   Connection can also be enabled from [Environment Setting] - [WLAN and Network] – [Bluetooth Setting].
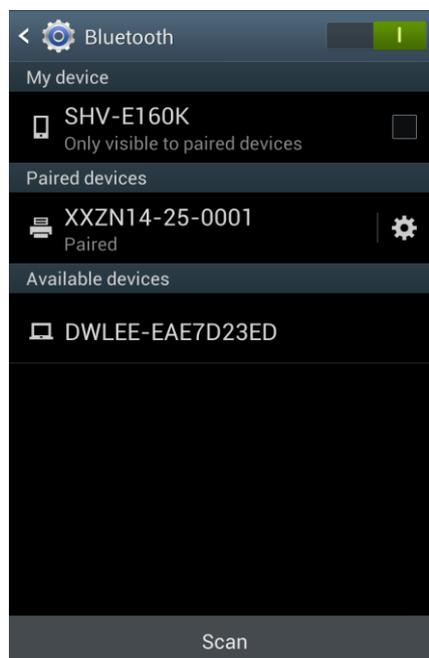

3) The list of Bluetooth devices available displays as shown below. Select the device to connect from the list.

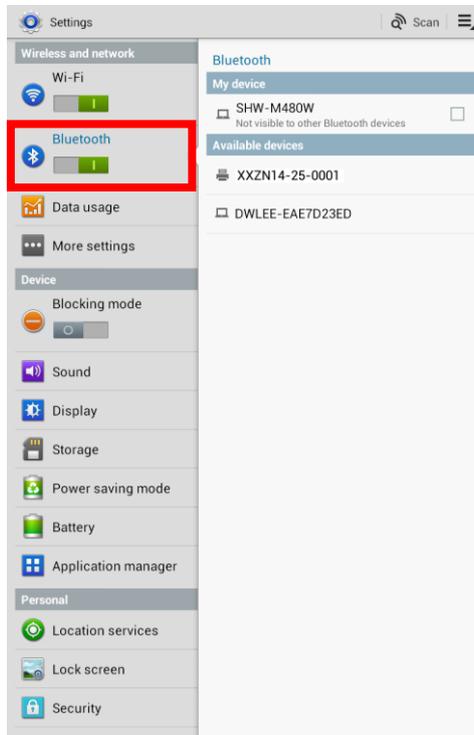4) When the following Bluetooth registration screen pops up, enter the password and click OK. The password is 0000.

5) If the Bluetooth device to connect is listed in the "Registered Devices" as shown below, it means that the connection is established.
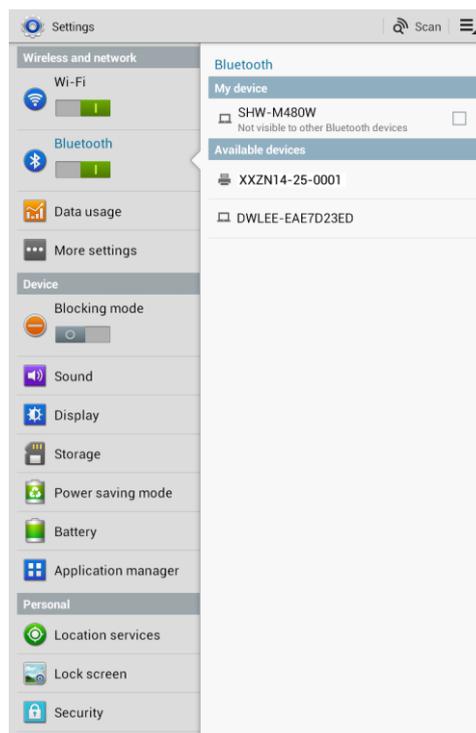
**4-2 Bluetooth Connection (Tablet PC)**

1) Turn on the printer power.

2) Select **Settings** and turn Bluetooth **ON**.

3) When the **Search Devices** at the top of the screen is selected, the list of Bluetooth devices that can be connected will be displayed. Select the device from the list to establish a connection.

4) When the following Bluetooth pairing request screen appears, enter the password, then click **OK**. The default password is "0000".
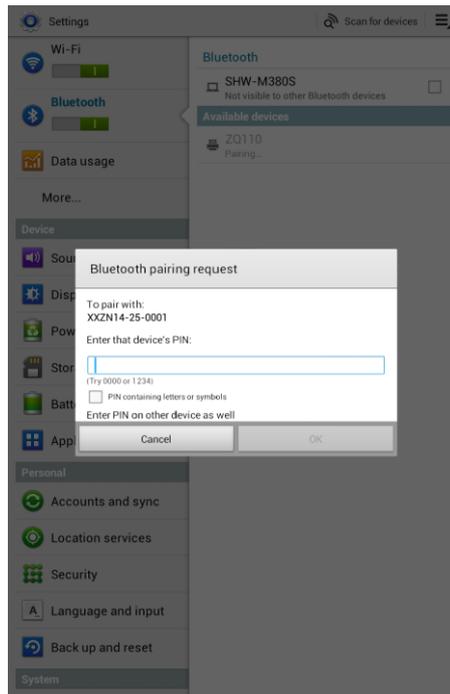
5) The device appears in the Connected Devices list when connection is established.