

sewoo

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sewoo



MODEL : SLK-TE25

Receipt Printer User's Manual

All specifications are subject to change without notice

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions.

- 1) This device may not cause harmful interference, and
- 2) This device must accept any interference received, including interference that may cause undesired operation.

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Use of the Made for Apple badge means that an accessory has been designed to connect specifically to the Apple product(s) identified in the badge, and has been certified by the developer to meet Apple performance standards.

Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.



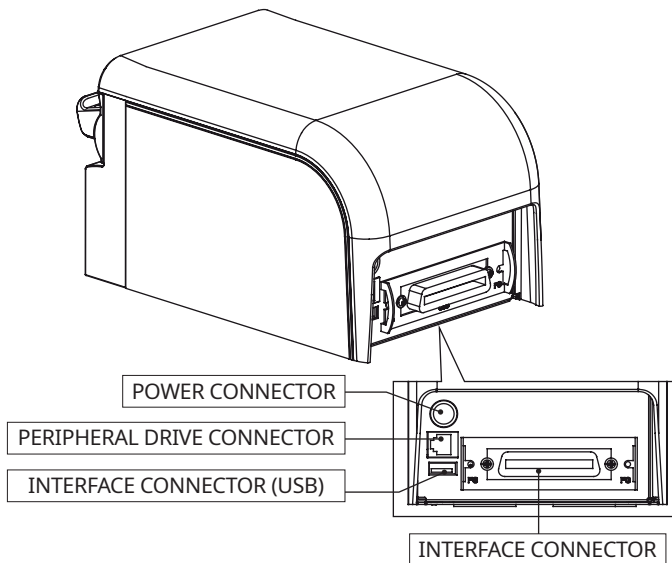
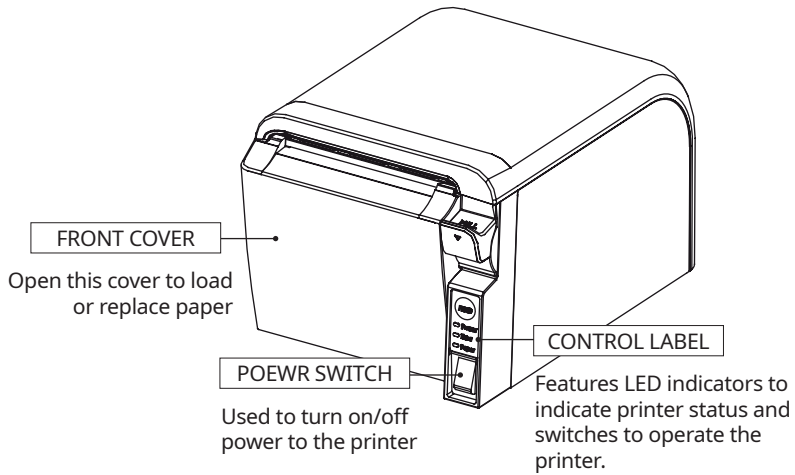
Disposal of Old Electrical&Electronic Equipment(Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronics equipment. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

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1. Parts Identifications

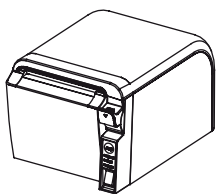


2. Setting Up the Printer

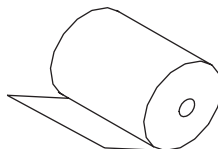
2-1. Unpacking

Your printer box should include these items.

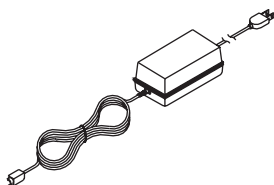
If any items are damaged or missing, please contact your dealer for assistance.



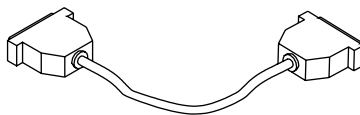
Printer



Roll Paper



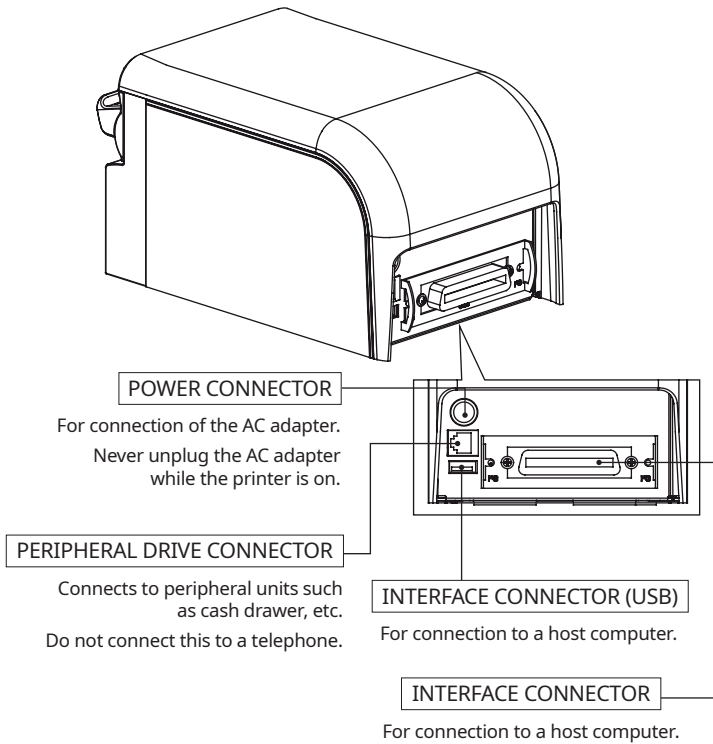
Adaptor(Optional)



Interface Cable(optional)

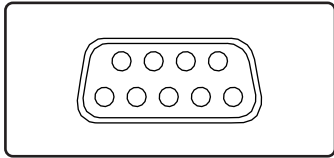
2-2. Connecting the Cables

All cables connect to the connector panel on the back of the printer which is shown below:



Before connecting any of the cables, make sure that both the printer and the computer are turned off.

2-2-1. Interface Connector

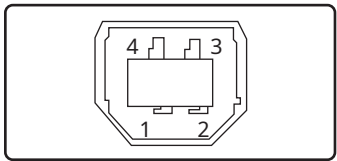


D-SUB 25 Female Serial

Centronics Parallel

Serial Interface

PIN	SIGNAL	I/O	DESCRIPTION
2	RxD	Input	Printer transmit data line RS-232C level
3	TxD	Output	Printer receive data line RS-232C level
4, 7	DTR	Output	Printer handshake to host line RS-232C level
5	GND	-	System Ground
6	DSR	Input	Data Send Ready
1, 8, 9	NC	-	-



USB "B" TYPE

USB Interface

PIN	SIGNAL	I/O	Description
1	+5V	-	+5V
2	DATA-	-	Printer transmit data line
3	DATA+	-	Printer transmit data line
4	GND	-	System Ground

Centronics Parallel Interface

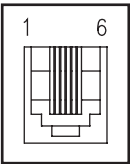
PIN	SIGNAL	I/O	DESCRIPTION
1	STROBE-	Input	Synchronize signal Data received
2~9	DATA0~7	Input/ Output	Data bit Transmitted 0~7
10	ACK-	Output	Data receiving completed.
11	BUSY	Output	Impossible to print of data receiving.
12	PE	Output	Paper empty
13	SELECT	Output	Printer status for ON/OFF line
14	AUTO FEED-	Input	Paper auto feed signal
15	GROUND	-	System ground
16	GROUND	-	System ground
17	NC	-	
18	LOGIC-H	-	+3.3V
19~30	GROUND	-	System ground
31	INIT-	Input	Initialize
32	ERROR-	Output	Printer error
33	GROUND	-	System ground
34	NC	-	
35	NC	-	
36	SELLECT IN-	Input	Printer select signal

Ethernet Interface

PIN	SIGNAL	I/O
1	Data Out +	Output Data +
2	Data Out -	Output Data -
3	GND	Ground
4	Data IN +	Input Data +
5	Data IN -	Input Data -
6	N.C	
7	N.C	
8	N.C	

2-2-2. Cash Drawer Connector

The printer can operate two cash drawers with a 6 pin RJ-11 modular connector. The driver is capable of supplying a maximum current of 0.1A for 510ms or less when not printing.



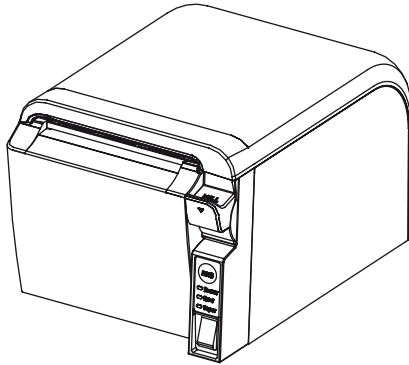
PIN	SIGNAL	DESCRIPTION
1	Signal GND	-
2	Drawer kick-out drive signal 1	Output
3	Drawer open/close signal	Input
4	+24V	-
5	Drawer kick-out drive signal 2	Output
6	Signal GND	-

2-3. Loading the Roll Paper

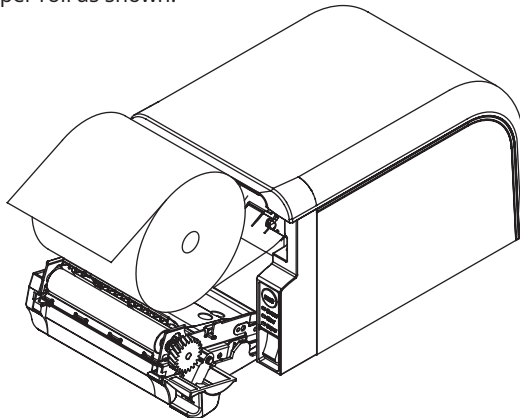
Notes: Be sure to use paper rolls that meet the specifications. Do not use paper rolls that have the paper glued to the core because the printer cannot detect the paper end correctly.

♣ Turn off power switch.

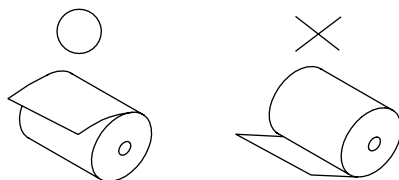
1. Make sure that the printer is not receiving data; Otherwise, data may be lost.
2. Open the paper roll cover by pushing down the cover open push button.



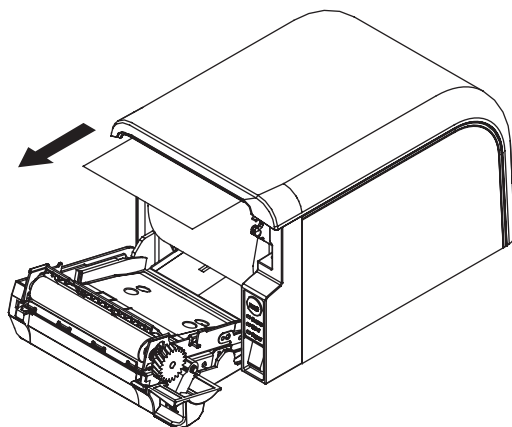
3. Remove the used paper roll core if there is one inside.
4. Insert new paper roll as shown.



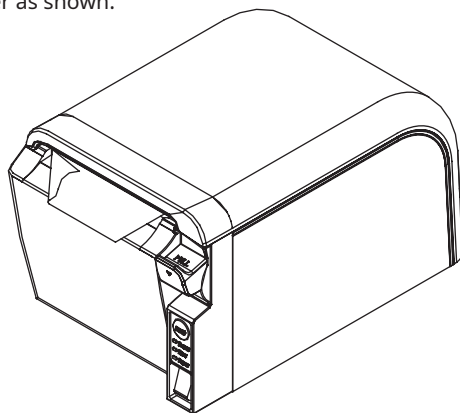
5. Note the correct direction that the paper comes off the roll:



6. Pull out a small amount of paper as shown. Then, close the cover.



7. Tear off the paper as shown.



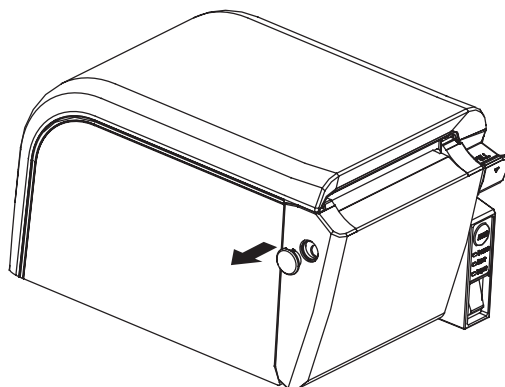
2-4. Dip switch setting

♣CAUTION:

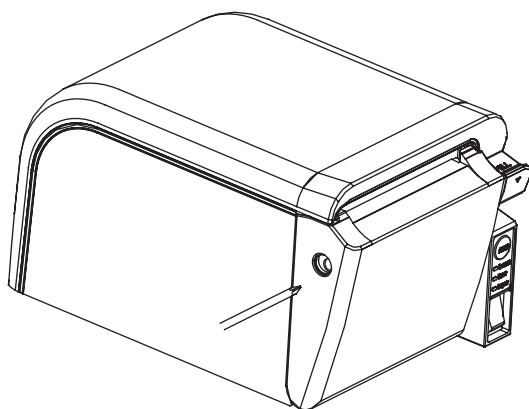
When the paper cutter is jammed, the top cover might be stuck closed. In this case, repeat power on and off several times.

If the top cover is still stuck, please follow the steps to release the paper jam.

1. Make sure the printer is turned off.
2. Take out cutter cover as shown.



3. Turn screw with drivers to a direction until paper is released from the cutter

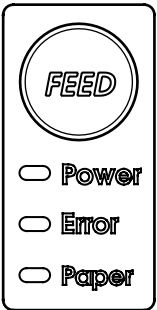


3. Control panel and other functions

3-1. Control Panel

You can control the basic paper feeding operations of the printer with the button on the control panel. The indicator lights let you to monitor the printer's status.

Control Panel



Button

The button can be disabled by the ESC c 5 command.

Press the FEED button once to advance paper one line. You can also hold down the FEED button to feed paper continuously.

3-2. Error indicators

This section explains the different patterns signaled by the two LED indicators located on the top cover of the printer.

STATUS	PAPER	ERROR	POWER	REMARKS
	RED	RED	GREEN	
Power off	OFF	OFF	OFF	Normal power is not supplied to the printer
Power on	OFF	OFF	ON	Normal power is supplied to the printer
On line	OFF	OFF	ON	Normal error-free mode
Cover open	OFF	ON	ON	Close cover
Paper empty	OFF	ON	ON	Insert new paper roll
Paper near end	ON	OFF	ON	Paper is low

4. Self Test

The self-test lets you know if your printer is operating properly. It checks the control circuits, printer mechanisms, print quality, ROM version and DIP switch settings.

This test is independent of any other equipment or software.

Running the self test

1. Make sure the printer is turned off and the printer cover is closed properly.
2. While holding down the FEED button, turn on the printer using the switch on the front of the printer to begin the self-test. The Self Test prints the printer settings, cuts the paper, then pauses: (Error LED On)

Self-test printing
Please press the PAPER FEED button.

3. Press the FEED button to continue printing.
The printer prints a pattern using the built-in character set.
4. The self test automatically ends and cuts the paper after printing the following.

*** Completed ***

The printer is ready to receive data as soon as it completes the self-test.

5. Hexadecimal Dump

This feature allows experienced users to see exactly what data is coming to the printer. This can be useful in finding software problems.

When you turn on the hex dump function, the printer prints all commands and other data in hexadecimal format along with a guide section to help you find specific commands.

To use the hex dump feature, follow these steps

1. Please run the self test. (While holding down the FEED button, turn on the printer using the switch on the front of the printer to begin the self-test)
2. Please holding down FEED button more than 2 seconds after print out first page of self test .
3. Now you are in hex dump mode when you will see
"Hexadecimal printing mode....." on paper.

Hexadecimal printing mode.....

1B 21 00 1B 26 02 40 40 .!..& . @ @

1B 25 01 1B 63 34 00 1B .%.. c4 ..

41 42 43 44 45 46 47 48 ABCDEFGH

☐ A period (.) is printed for each code that has no ASCII equivalent.

6. Specifications

6-1. General Specifications

- (1) Printing Method

Direct line thermal printing.
- (2) Print speed

200mm/sec
- (3) Dot density (Hor / Ver)

180 DPI X 180 DPI
- (4) Dot Pitch

0.142mm X 0.142mm
- (5) Printing Width

Max 72mm (512 dots)

(6) Number of print columns.

Font "A"	Font "B"
42 columns	56 columns

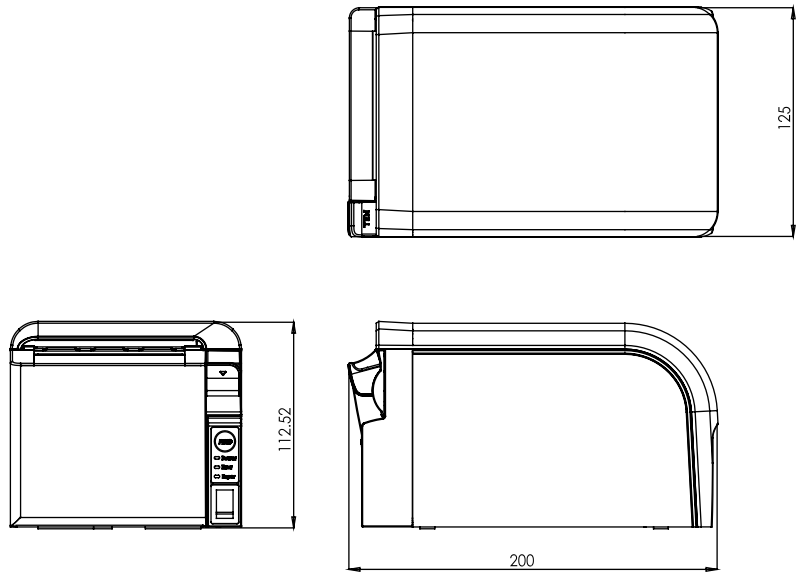
- (7) Roll paper
roll Paper.

Refer to chapter 2 for details on the recommended

Paper width : Default 79.5 ±0.5mm
(Min. : 50mm ~ Max. : 80mm)
Roll diameter : Max. ø83.0mm
- (8) Weight

1.4 Kg

(8) Overall dimension



6-2. Auto Cutter Specifications

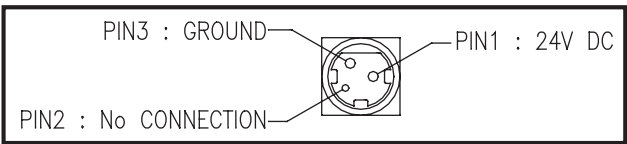
(1) Cutting Frequency	Max. 30 cuts per minute
(2) Thickness of paper	0.065 ~ 0.1mm
(3) Cutter Life	2.0 million cuttings

6-3. Interface

RS232 Serial Interface, Centronics Parallel Interface(IEEE1284), USB Interface, Ethernet Interface(10Mbps), Wi-fi(802.11B)

6-4. Electrical Characteristics

(1) Input Voltage	DC 24V $\pm$ 10%
(2) Current Consumption	Operating: Approx. 1.5 A (at ASC II printing) Peak : Approx. 10 A (at print duty 100%, For 10 seconds or less) Stand-by : Approx. 0.15 A
(3) Power Connector	



♣Important!

When using a printer power supply other than optional AC adaptor, be sure that the following cautions are observed.

Use a power supply (Limited Power Supply) of DC 24V±10% and more than 2.5A. Be careful about installing the printer in an area where there is noise.

Take the appropriate measure to protect against electrostatic AC line noise, etc.

6-5. Environmental Requirements

(1) Operating

Temperature 5°C to 40°C

Humidity 10% to 90% RH (without condensation)

(2) Transport/Storage (except paper)

Temperature -20°C to 60°C

Humidity 10% to 90% RH (without condensation)

6-6. Reliability

(1) MCBF

50 million lines (based on an average printing rate of 12.5% with

paper

thickness in the range 65µm to 75µm)

35 million lines (based on an average printing rate of 12.5% with

paper

thickness in the range 76µm to 150µm)

(2) Head Life

160Km

(3) Cutter Life

2,000,000 cuts

6-7. Certification

(1)FCC PART15 CLASS A

(2)CE EMCD/LVD

(CE-EMCD class B should use parallel shield cable complied with IEEE-1284 standards)

(3) UL/cUL (UL 60950-1)

(4) KCC

This equipment is indoor use and all the communication wiring are limited to inside of the building.

7. Command List

No.	Command	Function	REMARKS
1	HT	Horizontal tab	
2	LF	Print and line feed	
3	CR	Print and carriage return	
4	FF	Print and return to standard mode(in page mode)	
5	CAN	Cancel print data in page mode	
6	DLE EOT	Real-time status transmission	
7	DLE ENQ	Real-time request to printer	
8	DLE DC4	Generate pulse at real-time	
9	ESC FF	Print data in page mode	
10	ESC SP	Set right-side character spacing	
11	ESC !	Select print mode(s)	
12	ESC \$	Set absolute print position	
13	ESC %	Select/cancel user-defined character set	
14	ESC &	Define user-defined characters	
15	ESC *	Set bit-image mode	
16	ESC -	Turn underline mode on/off	
17	ESC 2	Select default line spacing	
18	ESC 3	Set line spacing	
19	ESC =	Select peripheral device	
20	ESC ?	Cancel user-defined characters	
21	ESC @	Initialize printer	
22	ESC D	Set horizontal tab positions	
23	ESC E	Turn emphasized mode on/off	
24	ESC G	Turn double-strike mode on/off	
25	ESC J	Print and feed paper using minimum units	
26	ESC L	Select page mode	
27	ESC M	Select character font	
28	ESC R	Select an international character set	
29	ESC S	Select standard mode	
30	ESC T	Select print direction in page mode	
31	ESC V	Turn 90° clockwise rotation mode on/off	
32	ESC W	Set printing area in page mode	
33	ESC \	Set relative print position	
34	ESC a	Select justification	
35	ESC c 3	Select paper sensor(s) to output paper-end signals	
36	ESC c 4	Select paper sensor(s) to stop printing	
37	ESC c 5	Enable/disable panel buttons	
38	ESC d	Print and feed paper n lines	
39	ESC p	General pulse	

No.	Command	Function	REMARKS
40	ESC t	Select character code table	
41	ESC {	Turn upside-down printing mode on/off	
42	FS p	Print NV bit image	
43	FS q	Define NV bit image	
44	GS !	Select character size	
45	GS \$	Set absolute vertical print position in page mode	
46	GS *	Define downloaded bit image	
47	GS /	Print downloaded bit image	
48	GS B	Turn white/black reverse printing mode on/off	
49	GS H	Select printing position of HRI characters	
50	GS I	Transmit printer ID	
51	GS L	Set left margin	
52	GS P	Set horizontal and vertical motion units	
53	GS V	Select cut mode and cut paper	
54	GS W	Set printing area width	
55	GS \	Set relative vertical print position in page mode	
56	GS a	Enable/disable Automatic Status Back(ASB)	
57	GS f	Select font for HRI characters	
58	GS h	Set bar code height	
59	GS k	Print bar code	
60	GS r	Transmit status	
61	GS v 0	Print raster bit image	
62	GS w	Set bar code width	
	< Add >		
1	ESC i	Full cut	
2	ESC m	Partial cut	
3	FS !	Set print mode(s) for Kanji characters	
4	FS &	Select Kanji character mode	
5	FS -	Turn underline mode on/off for Kanji character	
6	FS .	Cancel Kanji character mode	
7	FS 2 c1 d1 ...dk	Define user-defined Kanji characters	
8	FS C	Select Kanji character code system	
9	FS S 1 2	Set Kanji character spacing	
10	FS W	Turn quadruple-size mode on/off for Kanji character	

8. Utilities

The following utilities and concerned manual can be found on the CD or homepage.

No.	Name	Description
1	Memory Saver	This is a utility that allows you to set printers by interface. Detailed settings such as Wi-Fi, Ethernet, and COM ports can be configured.
2	NV Logo Upload	With NV Logo Upload running on Windows OS, you can upload and remove the bmp file as Logo in the printer's flash memory, and print test is possible.
3	Download Tool (F/W)	Printer F/W and Font Download are available, and BT, Wi-Fi module F/W Download is supported as an option.
4	Android Utility (Sewoo M_Utility)	It is a utility app that prints text, barcodes, images, etc. through Bluetooth and Wi-Fi communication, and able to printer settings.



QR Page

9. S/W

We provides SDK, Driver, etc. as follows to respond to various S/W usage environments.

You can download this S/W from the homepage.

No.	Name	Description
1	Windows Driver	This is an install program used to print a POS printer in Windows OS.
2	Linux Driver	This is the Cups Driver used to print a Thermal printer in the Linux environment.
3	OPOS Driver	This is a driver that controls POS printers using the OPOS standard. It can be used after initial setting(POS Printer&Cash Drawer) using the setting tool.
4	JavaPOS Driver	The JavaPOS driver is an interface standard for POS software written in Java.
5	Mac Driver	This is the Cups Driver used to print a Thermal printer in the Mac OS environment.
6	Android Plugin (Sewoo Print Service Plugin)	This is a print service plug-in that allows you to print documents, images, and web pages without installing additional apps.
7	Windows SDK	This is library for communication and data output with Thermal printer in Windows OS. Can be used through direct communication and driver.
8	Android SDK	This is library for communication and data output with Thermal printers in Android OS.

- Model Name (SBT-M2)
- Manufacturer (Aroot CO.,Ltd.)
- Manufacturing Origin (Made in Korea)
- ANATEL ID (Anatel: 03359-25-16538)

1. Incorpora produto homologado pela Anatel sob número 03359-25-16538
2. Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados.
ANATEL website: <https://www.gov.br/anatel/pt-br/>



- Model Name (SWF-I3)
- Manufacturer (Aroot CO.,Ltd.)
- Manufacturing Origin (Made in Korea)
- ANATEL ID (Anatel: 04208-25-16538)

1. Incorpora produto homologado pela Anatel sob número 04208-25-16538
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