

Software Manual

BIXOLON Utility iOS

Ver. 1.05

http://www.bixolon.com

Table of Contents

1. Manual Information	3
2. Usage Environment	3
2-1 Operating System	3
2-2 Interface	3
2-3 Supported Printer	4
3. Detailed Functions	5
3-1 Printer Connection	5
3-1-1 Bluetooth	6
3-1-2 Wi-Fi	6
3-1-3 Smart Connection	7
3-2 Printer Settings	8
3-2-1 POS	8
3-2-2 Label	14
3-2-3 B-gate	22
3-3 Print Test Page	29
3-4 Printer Info	30

1. Manual Information

This manual provides information for changing the printer's settings in the BIXOLON utility application running in the iOS environment.

2. Usage Environment

2-1 Operating System

• iOS 10.0 or Later

2-2 Interface

- Wi-Fi
- Bluetooth
- Ethernet

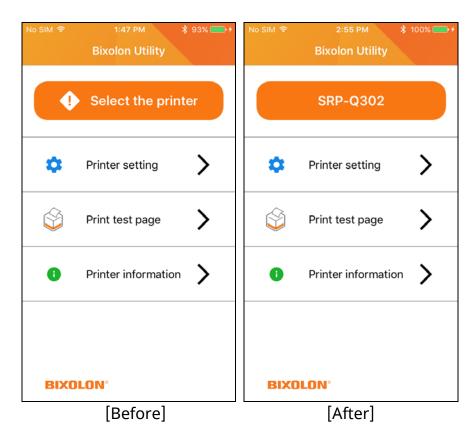
2-3 Supported Printer

- POS / Mobile receipt printers
- SPP-R200II, SPP-R200III, SPP-R210, SPP-R220
- SPP-R300, SPP-R310
- SPP-R400, SPP-R410, SPP-R418
- SRP-350III, SRP-352III, SRP-350plusIII, SRP-352plusIII
- SRP-F310II, SRP-F312II, SRP-F313II
- SRP-380, SRP-382, SRP-383
- SRP-330II, SRP-332II
- SRP-S300
- SRP-275III
- SRP-Q300, SRP-Q302
- SRP-QE300, SRP-QE302
- SRP-E300, SRP-E302
- SRP-Q200
- SRP-S320
- SRP-S3000
- SRP-B300
- Label / Mobile Label printers
 - SLP-DX220, SLP-DX223
 - SLP-DX420, SLP-DX423
 - SLP-TX400, SLP-TX403
 - SLP-TX420, SLP-TX423
 - SLP-TX220, SLP-TX223
 - SLP-DL410, SLP-DL413
 - SRP-770III, SRP-E770III
- XT5-40(RFID), XT5-43(RFID), XT5-46(RFID)
- XD5-40d, XD5-43d
- XD5-40t(RFID), XD5-43t(RFID)
- XL5-40CT, XL5-40CT
- SPP-L3000, SPP-L310, SPP-L410
- XM7-40
- XM7-20
- SRP-S3000_LABEL
- XD3-40d
- XD3-40t
- B-gate
- BGT-100P, BGT-102P, SRP-F310IIHi, SRP-F312IIHi, SRP-Q300H, SRP-Q302H, SRP-S300Hi

3. Detailed Functions

3-1 Printer Connection

- You can discover the printers by clicking the "Select a printer" button, and you can change the printer settings by selecting an model from the discovered printers.
- If the connection is successful, you can check the model name as shown below.



3-1-1 Bluetooth

- A list of printers paired with the HOST device (iPhone or iPad) will be shown.
- When selecting a printer from the list, it will try to establish connection.
- Once connected, it will return to the main screen.

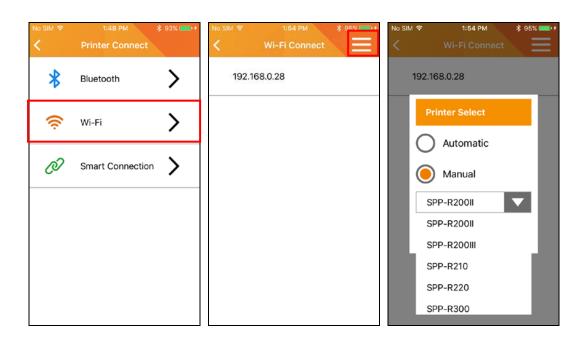
• A printer you want to connect can be selected manually by clicking the icon on the upper right.

No SIM 🗢	1:48 PM	\$ 93% 💼 +	No SIM 🗢	1:50 PM	* 93% 💼 +	No SIM		
<	Printer Connect		<	Bluetooth Conn	ect	<	Bluetooth Connect	Ξ
*	Bluetooth	>		-R310 0:7D:E8:57:09			SPP-R310 74:F0:7D:E8:57:09	
((:	Wi-Fi	>					Printer Select	
							Automatic	
O	Smart Connection	>					O Manual	
							SPP-R200II	
							SPP-R200II	
							SPP-R200III	
							SPP-R210	
							SPP-R220	
							SPP-R300	

<mark>3-1-2 Wi-Fi</mark>

- A list of printers connected to the same network will be displayed.
- When selecting a printer from the list to connect, it will try to establish connection.
- Once connected, it will return to the main screen.

• A printer you want to connect can be selected manually by clicking the icon on the upper right.



3-1-3 Smart Connection

- Smart Connection is a software function that allows the user to easily set a printer's network by automatically configuring it to the network status in which it can be connected to the host device.
- This function is available only for the printer models that support Smart Connection. Please check the specification sheet for detailed information about support.
- Once the settings are configured, you can connect to the printer.
- Once connected, it will return to the main screen.

No SIM 🗢	1:48 PM 🛛 🔻 93% 💶 🗲	No SIM 🗢 1:57 PM \$ 96% 📻 +	No SIM 후 2:00 PM 🕴 96% 🚃 🗲
<	Printer Connect	Smart Connection	Smart Connection
*	Bluetooth	SSID: BXLSW	SSID : BXLSW
((:	Wi-Fi >	PW : 12345	Smart Connection
Ø	Smart Connection 💙		The printer setup is complete.
<u> </u>	•		IP : 192.168.0.248
			Do you want to connect?
			Confirm Cancel
		Q Start	Q Start

3-2 Printer Settings

• Change the printer's default settings.

3-2-1 POS

1) VMSM

The settings such as print speed, density, language, and font will be displayed on the screen. The configurable settings may be different depending on the model.

No SIM 2:03 PM \$ 97% → + ✓ Printer setting	No SIM ♥ 2:10 P 〈 VMS	
VMSM	Speed	1
NV Image	Density	4
MSR setting	Switch setting	Memory Switch
File Transfer	Language	KS5601
Bluetooth setting	Font type	Font A(12x24)
	Paper Save Level	Disable
	<u>.</u> s	ave

- Speed: Set the printing speed.
- Density: Set the printing density.
- Language: Set a language to use when printing.
- Font type: Set the font type.
- Switch setting: Set using Memory switch or Dip switch.
- Power Save Mode: Set the power saving mode for low power consumption.
- Auto cutter selection: Set the paper cutting method.
- Cutter Depth Adjustment: Set the paper width which is not cut when using a partial cut operation.
- Paper Save Level: Set the paper saving level.
- Paper save mode cutting correction: Enable or disable the cut offset when setting the level for the paper saving option.
- 90 Degree Rotation Mode: Texts prints with 90 degree rotation.
- Back-Feeding Mode: Reverse feeds the paper to the specific position before the start of printing.

- Automatic feed in idle mode: Feeds the paper at every specified time interval when the printer is in the sleep mode.
- Black Mark cut position: Cut after feeding the paper to the default cutting position or black-mark position.
- Upside down printing: Enable or disable the vertical flip option.
- Paper End Buzzer: Sets beeping when reaching paper roll out.
- Statistics Data Printing mode: Enable or disable the statistical data printing mode.
- Printer service: Change the receipt mode and label mode.
- Tear off position: Set the cut position when using the label mode.
- Beep For Roll Paper End: Sets beeping when reaching paper roll out.
- Beep mode For Low Battery End: 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.

2) NV Image

Manage the images stored in the flash memory.

No SIM 2:03 PM \$ 97% ● + ✓ Printer setting		трм nage	\$99% ━•+
VMSM	BIVO		. ∎ #:
NV Image	BIXO	LUI	
MSR setting		Dithering	
File Transfer	0 00		
Bluetooth setting	Gallery	Dowr	
	Print All	Delete	Delete All

- Gallery: go to the gallery page.
- Download: download images.
- Print: Print an image selected from the list.
- Print All: Print all images saved on the printer.
- Delete: Delete images selected from the list.
- Delete All: delete all images in the printer.

3) MSR setting

The menu displays on a mobile printer with an MSR reader.

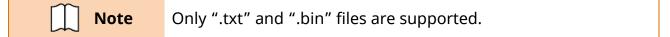
No SIM 🗢 2:03 PM 🖇 97% 📻 ≁	No SIM 🗢 2:05 PM	A
Printer setting	MSR set	ting
VMSM	MSR Trigger	Track 1/2/3 read mode AUTO trigger
NV Image	Sentinal Option	Dynamic Sentinal
MSR setting	Track1 Start Code	START1
File Transfer	Track1 End Code	END1
Bluetooth setting	Track2 Start Code	START2
	Track2 End Code	END2
	🛓 Sa	ave

- MSR Trigger: MSR Sets MSR data scanning mode.
- Sentinel Option: Set the type of characters for the beginning and end of the track data in MSR data.
- Track1 Start Code: Set the type of characters for the beginning of the track 1 data in MSR data.
- Track1 End Code: Set the type of characters for the end of the track 1 data in MSR data.
- Track2 Start Code: Set the type of characters for the beginning of the track 2 data in MSR data.
- Track2 End Code: Set the type of characters for the end of the track 2 data in MSR data.
- Track3 Start Code: Set the type of characters for the beginning of the track 3 data in MSR data.
- Track3 End Code: Set the type of characters for the end of the track 3 data in MSR data.

4) File Transfer

Load a list of files saved in the Document directory. When selected, it can be transferred to the printer.

No SIM 중	2:03 PM Printer setting	¥ 97% 💼 +	No SIM (≎	2:11 PM
VMSM			🖌 au	utoreconnection_disable.bin
NV Ima	ge		te	st.bin
MSR se	etting			
File Tra	nsfer			
Bluetoc	oth setting			



5) Bluetooth setting

Configure the Bluetooth settings.

The configurable settings are different between POS printers and mobile printers.

No SIM 2:03 PM ¥ 97% ● + ✓ Printer setting	No SIM <a> 2:11 PM ✓ Bluetooth s	
VMSM	Authentication Encryption	Enable
NV Image	Connection Mode	Mode2
MSR setting	PIN Code	0000
File Transfer	Printer Name	SRP- F310II_77FA
Bluetooth setting	Pairing mode	PIN Code
	Role mode	Classic
	💆 Sa	ave

- Authentication Encryption: Sets or cancels Authentication & Encryption mode when connecting via Bluetooth.
- Connection mode: Sets Mode when connecting via Bluetooth.
- PIN Code: Changes the PIN Code required for Bluetooth connections.
- Printer Name: Changes the device name produced when establishing a Bluetooth connection.
- Pairing mode: Set the Bluetooth connection method.
- Role mode: Set the Bluetooth role mode.
- Auto reconnection: Retry setting on Bluetooth can be enabled when Bluetooth connection is released.

🚺 Note	 For POS printers, they should support Bluetooth connection and can be enabled when connected via Wi-Fi. Pairing mode and roll mode are only supported by a POS printer and may not be supported depending on the Bluetooth version.
--------	--

3-2-2 Label

1) Basic

Printer settings such as label size, speed, density and media type will be displayed on the screen. Make any necessary changes and save

Carrier		0:05 AM
Basic	Width	832
Advanced	Height	335
Language	Orientation	Top to Bottom
File Transfer	Speed	4.0
Configuration	Density	10
Direct I/O	Media Type	Gap
		Save

- Width: set the label width.
- Height: set the label height.
- Orientation: set the printing orientation.
- Speed: set the printing speed.
- Density: set the printing density.
- Print Mode: set the sensor type.
- Media Type: set the media type, e.g., gap, continuous, black mark.
- Tear Off: set the position of cut line.
- Offset: set the position of the printing area.
- Media unit: set the display and input units for width, height, and offset.

2) Advance

Settings such as media handling will be displayed on the screen. Make any necessary changes and save.

Carrier Carrier ↑12:55 AMImage: Carrier Printer setting	No SIM
Basic	Media Handling Tear Off
Advanced	Media Feed No Feed
Language	
File Transfer	
Configuration	
Direct I/O	

- Media Handling: configure the media handling settings, e.g., tear off, cutter.

- Media Feed: enable/disable media feed.

3) Language

Settings such as code page and international character set are displayed on the screen. Make any necessary changes and save.

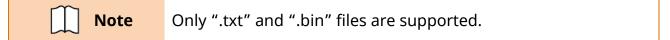
Carrier 🗢 12:55 AM 💼	No SIM 🗢 2:1	BPM
Printer setting	<	uage
Basic	CodePage	WPC1252 - Latin 1
Advanced	International Character Set	U.S.A
Language		
File Transfer		
Configuration		
Direct I/O		
	<u>.</u>	Save

- Code page: change the code page.
- International Character Set: set the language.

4) File Transfer

Load a list of files saved in the Document directory. When selected, it can be transferred to the printer.

Carrier Carrier 12:55 AM	No SIM 2:18 PM \$ 100% ≠ ✓ File Transfer
Basic	autoreconnection_disable.bin
Advanced	test.bin
Language	
File Transfer	
Configuration	
Direct I/O	
	👤 Transfer



5) Configuration

Check the printer information and perform preset functions.

Carrier Carrier ↑12:55 AMImage: Carrier Printer setting	No SIM 10:47 AM \$ 86% ■ + Configuration
Basic	Calibrate Media
Advanced	Factory Reset
Language	
File Transfer	
Configuration	
Direct I/O	

- Calibrate Media: calibrate the sensor according to the label size and type.
- Factory Reset: reset your printer to its default factory settings.

6) Direct I/O

Transfer printer data directly.

Carrier 🗢 12:55 AM 🔤	No SIM 🗢 2:20 PM 🖇 100% 📻 +
Printer setting	< Direct I/O
Basic	P1
Advanced	
Language	
File Transfer	
Configuration	
Direct I/O	
	🧵 Send

Note

د

You can only use commands supported by the printer.

7) Power

This menu is only activated with mobile printers and it can configure the printer's power settings.

Carrier 🗢	1:28 AM	No SIM 🗢	2:21 PM	∦ 100% 📥 ≁
<	Printer setting	<	Power	
Basic	;	Power Off		Enable
Adva	nced	Power Off T	ime	15
Lang	uage	Power Save		Enable
File T	ransfer	Power Save	Time	30
Confi	iguration			
Direc	et I/O			
Powe	er		👵 Sav	/e

- Power Off: Enable or disable the auto power off mode.
- Power Off Time: Set the time after which the printer should be turned off automatically.
- Power Save: Enable or disable power save mode.
- Power Save Time: Set the time after which the printer should go into power save mode automatically.

8) RFID

This menu is only activated with RFID printers and it can configure the printer's RFID settings.

No Service	No Service 🗢 2:25 PM 🖇 🗔 • KFID
Basic	Configuration
Advanced	Auto Calibration
Language	Initialization
File Transfer	
Configuration	
Direct I/O	
RFID	

- Configuration: Set the RFID transponder type, coding position, number of coding retries, number of labels upon retry, and sending/receiving power.
- Auto Calibration: For calculating and saving the optimal coding position of the RFID label on the printer and printing.
- Initialization: Set the RFID Default value.

3-2-3 B-gate

1) Bluetooth setting

Configure the Bluetooth settings.

No SIM 2:42 PM ≵ 100% ● ✓ Printer setting	No SIM	} ,≁
Bluetooth setting	Authentication Enable Encryption	
Wi-Fi setting	Connection Mode Mode2	
USB to Serial setting	PIN Code ****	
Custom Device setting	Printer Name BGT-102P	
File Transfer		
VMSM		
NV Image		

- Authentication Encryption: Sets or cancels Authentication & Encryption mode when connecting via Bluetooth.

- Connection mode: Sets Mode when connecting via Bluetooth.
- PIN Code: Changes the PIN Code required for Bluetooth connections.
- Printer Name: Changes the device name produced when establishing a Bluetooth connection.

2) Wi-Fi setting

Configure Wi-Fi settings.

No SIM ♥ 2:42 PM		42 PM	No SIM � 2:42 ✔ Wi-Fis	
Bluetooth setting	Network Mode	Adhoc	Network Mode	Infra Mode
Wi-Fi setting	SSID	123456	DHCP Mode	Enable
USB to Serial setting	IP Address	0.0.0.0	SSID	123456
Custom Device setting	Subnet Mask	0.0.0.0	Authentication	Open System
File Transfer	GateWay	0.0.0.0	Cryptograph	NONE
VMSM	Authentication	Open System		
NV Image	<u>.</u>	Save	<u>.</u>	Save

- Network Mode: Set Network Mode. (Adhoc or Infrastructure)
- DHCP Mode: Set DHCP Mode.
- SSID: Set SSID to be connected.
- IP Address: Set IP Address.
- Subnet Mask: Set Subnet Mask.
- Gateway: Set Gateway information.
- Authentication: Set Authentication method.
- Cryptograph: Set Cryptograph method.
- WEP Key: Set WEP Key.
- PSK Key: Set PSK Key
- EAP: Set Extensible Authentication Protocol.
- Authentication ID: Set Authentication ID.
- Authentication Password: Set Authentication Password.

3) USB to Serial setting

Configure USB to Serial device settings.

No SIM 2:42 PM \$ 100% → + ✓ Printer setting	No SIM 2:42 PM \$ 100% ≠ ✓ USB to Serial setting
Bluetooth setting	Device ID 78
Wi-Fi setting	Baud rate 9600
USB to Serial setting	Data Bit 8bit
Custom Device setting	Stop Bit 1bit
File Transfer	Parity none
VMSM	
NV Image	📕 Save

- Device ID: ID of "USB to Serial" Device connected to a B-gate.
- Baud rate: Set Baudrate.
- Data Bit: Set Serial Data bit
- Stop Bit: Set Serial Stop bit
- Parity: Set Serial Parity bit

Note

The settings can be configured only when USB to Serial devices are connected.

4) Custom Device setting

Search, remove, or reset devices added to the B-gate, or add a new device.

No SIM ♥ 2:42 PM	No SIM 🗢 2:42 PM		No SIM 奈 ✔ Cust	10:31 АМ om Device sett	\$ 81% ■• + ing
Bluetooth setting	Get Device	>	Get Device	Device	>
Wi-Fi setting	Add Device	>	Ad Device		>
USB to Serial setting	Delete Device	>	De	to Serial 0403 PID : 60	✓ 01 >
Custom Device setting	Re-init Device	>	Re VID :	067b PID:23	03 >
File Transfer			VID :	0a12 PID:000	01
VMSM			Can	cel Confi	rm
NV Image	🗸 Confirm			🗸 Confirm	
No SIM ♥ 2:42 PM \$ 100% →+ Custom Device setting	No SIM ♥ 2:42 PM Custom Device sett			2:43 PM om Device sett	
Get Device	Get Device	>	Get Device		>
Ad Device Device Type De POS Printer VID PID Cancel Confirm	Ad Delete Device Device Type De POS Printer VID PID Cancel Confi		De Device	nit Device Type Printer	
🗸 Confirm	🗸 Confirm			🗸 Confirm	

- Get Device: Obtain information of registered device in B-gate and show screen.
- Add Device: Add New Device that is not added in B-gate before.
- Delete Device: Delete Device added in B-gate.
- Re-Init Device: Added Device list in B-gate is set as a factory default status.

5) File transfer

Load a list of files saved in the Document directory. When selected, it can be transferred to the printer.

No SIM 2:42 PM ¥ 100% ● ✓ Printer setting	№ SIM 2:43 PM \$ 100% + K File Transfer
Bluetooth setting	autoreconnection_disable.bin
Wi-Fi setting	test.bin
USB to Serial setting	
Custom Device setting	
File Transfer	
VMSM	
NV Image	
NV Image	

Note	Only ".txt" and ".bin" files are supported.

6) VMSM

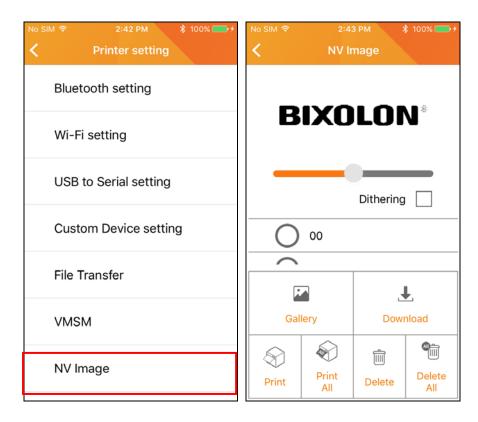
The settings such as print speed, density, language, and font will be displayed on the screen. The configurable settings may be different depending on the model.

No SIM 2:42 PM ≵ 100% ● ✓ Printer setting	No SIM 후 2:43 〈 VMS	
Bluetooth setting	Speed	4
Wi-Fi setting	Density	4
USB to Serial setting	Switch setting	Memory Switch
Custom Device setting	Language	PC437
File Transfer	Font type	Font A(12x24)
VMSM	Paper Save Level	Disable
NV Image	<u>.</u> 9	Save

- Speed: set the printing speed.
- Density: set the printing density.
- Language: Set a language to use when printing.
- Font type: Set the font type.
- Switch setting: Set using Memory switch or Dip switch.
- Power Save Mode: Set the power saving mode for low power consumption.
- Auto cutter selection: Set the paper cutting method.
- Cutter Depth Adjustment: Set the paper width which is not cut when using a partial cut operation.
- Paper Save Level: Set the paper saving level.
- Paper save mode cutting correction: Enable or disable the cut offset when setting the level for the paper saving option.
- 90 Degree Rotation Mode: Texts prints with 90 degree rotation.
- Back-Feeding Mode: Reverse feeds the paper to the specific position before the start of printing.
- Automatic feed in idle mode: Feeds the paper at every specified time interval when the printer is in the sleep mode.
- Black Mark cut position: Cut after feeding the paper to the default cutting position or black-mark position.

7) NV Image

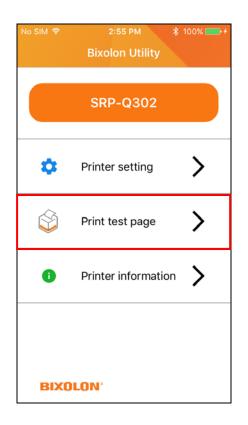
Manage the images stored in the flash memory.



- Gallery: go to the gallery page.
- Download: download images.
- Print: Print an image selected from the list.
- Print All: Print all images saved on the printer.
- Delete: Delete images selected from the list.
- Delete All: delete all images in the printer.

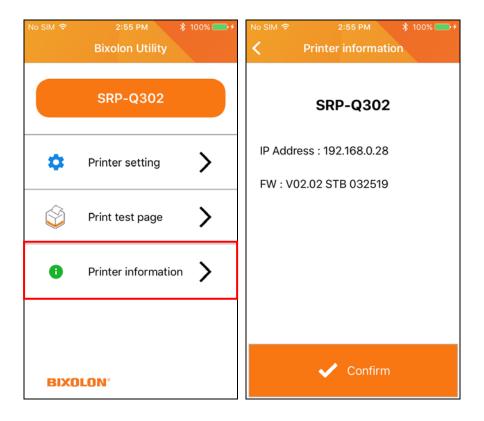
3-3 Print Test Page

• You can print test pages.



<mark>3-4 Printer Info</mark>

• Check the printer information.



Copyright

© BIXOLON Co., Ltd. All rights reserved.

This user manual and all property of the product are protected under copyright law. It is strictly prohibited to copy, store, and transmit the whole or any part of the manual and any property of the product without the prior written approval of BIXOLON Co., Ltd.

The information contained herein is designed only for use with this BIXOLON product. BIXOLON is not responsible for any direct or indirect damages, arising from or related to use of this information.

- The BIXOLON logo is the registered trademark of BIXOLON Co., Ltd.
- All other brand or product names are trademarks of their respective companies or organizations.

BIXOLON Co., Ltd. maintains ongoing efforts to enhance and upgrade the functions and

quality of all our products.

In the following, product specifications and/or user manual content may be changed without prior notice.

Caution

Some semiconductor devices are easily damaged by static electricity. You should turn the printer "OFF", before you connect or remove the cables on the rear side, in order to guard the printer against the static electricity. If the printer is damaged by the static electricity, you should turn the printer "OFF".

Revision history

Ver.	Date	Page	Description
1.00	18.11.19	-	New
1.01	13.03.20	3	add supported model(XM7-20)
1.02	10.09.20	4, 21	add RFID type model (XT5-40(RFID) / XT5-43(RFID) / XT5-46(RFID), XD5-40t(RFID) / XD5-43t(RFID)) added rfid setting function.
1.03	15.09.20	4	add supported model(SRP-S320)
1.04	30.10.20	4	add supported model (SRP-S3000/SRP-S3000_LABEL, XD3-40d, XD3- 40t)
1.05	14.01.21	4	add supported model (SRP-B300)