

# Unified POS Utility Manual Thermal Printers

Rev. 1.11	BGT-100P Printer
	<b>BGT-102P</b> Printer
	SRP-S300
	SRP-380
	SRP-382
	SRP-F310II
	SRP-F312II
	SRP-F313II
	SRP-350plusIII
	SRP-352plusIII
	SRP-350III
	SRP-352III
	SRP-350IIOBE
	SRP-330
	SRP-330II
	SRP-332II
	SRP-340II
	SRP-342II
	STP-103III
	SPP-100II

http://www.bixolon.com

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## 1. Foreword

The Unified POS Utility can be used for various purposes.

Details on the usage of each function are described as follows.

- 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 to download user-defined images to the flash memory in the printer and to recall and print those images with fast speed.
- 3) Command Test Editor

This function is used to test printing-related commands and create a brief label sample for test printing.

We at BIXOLON maintain ongoing efforts to enhance and upgrade the functions and quality of all our products. In following, product specifications and/or user manual content may be changed without prior notice.

## 2. Operating System (OS) Environment

The following operating systems(OS) are supported for usage.

Microsoft Windows XP SP3 (32bit, 64bit) Microsoft Windows Server 2003 SP1 (32bit) Microsoft Windows Server 2003 (64bit) Microsoft Windows VISTA (32bit, 64bit) Microsoft Windows Server 2008 (32bit, 64bit) Microsoft Windows Server 2008 R2 (64bit) Microsoft Windows 7 (32bit, 64bit) Microsoft Windows 8 (32bit, 64bit) Microsoft Windows Server 2012 (64bit) Microsoft Windows 10 (32bit, 64bit)

## 3. Usage Preparation

1) Printer and PC Connection.

Connect the printer and PC via the interface cable. (The interfaces available for usage are Serial, Parallel, USB and Ethernet.)

- Unified POS Utility Program Execution. The program can be installed from the accompanying CD, and Latest file versions can be downloaded from the BIXOLON website. (http://www.bixolon.com)
- 3) Select the interface type and communication conditions.
- 4) Click on the "Connect" Button. If the conection is successful, the inactive buttons become active with the message "The printer is connected".
   If the connection fails, the following error message appears. "Cannot open port".

Interface Type		
SERIAL	O PARALLEL O USB	VMSM
DLAN	O WLAN O BLUETOOTH	(Virtual Memory Setting Manager)
Communication Set	ting	NV Image Tool
	Port COM1	(Non-Volatile Image Tool)
Bau	d Rate 115200	•
Da	ta Bits 8	Command Test Editor
	Parity None	•
St	op Bits 1	
Flow C	Control None	•
	IP 192 , 168 , 100 , 189	Select Language
	Port 9100	English
Co	nnect Disconnect	Exit

## 4. Unified POS Utility Usage

#### 4-1 VMSM

This function is used to set the virtual memory switch used for the thermal printer suitable for the user's environment.

If the Communication Setting is OK, click the "VMSM" button.

- 4-1-1 Getting the Memory Switch Status of the Printer
- 1) Click the "Get Status" button. It gets the status of the Printer Setting.
- 2) The "Memory switch" Tab in the Printer Status window displays the current virtual memory switch settings of the printer, and allows new settings to be defined.

emory switch Printer Setting		Setup Status
Virtual Memory Switch Status Display		Print Status
[PIN 1] Reserved	Disable	-
[PIN 2] Reserved	Disable	Print Codepage
[PIN 3] Reserved	Disable	- Get Status
[PIN 4] Reserved	Disable	▼ Set Status
[PIN 5] Reserved	Disable	•
[PIN 6] Reserved	Disable	User Status Setting
[PIN 7] Reserved	Enable	Save Status
[PIN 8] Reserved	Disable	Load Status
Memor switch : 💌 1	< Back Next >	Initialize Status

3) The "Printer Setting" Tab displays printer information, and code page information, and allows new settings to be defined.

emory switch Printer Setting Paper Save Mode Bluetooth configuration Mainten	ance counter Setup Status
Printer Model :	Print Status
Firmware Version :	Print Codepage
Codepage Emulation	Get Status
Single byte country  PC437 (USA: Standard Europe)	Set Status
Double byte country Single byte font selectio	n User Status Setting
Power Save Mode Print Speed & Density  Disable Enterance time(sec): 20  Print Speed & Density  Setting method  Memory Switch	Save Status
	Load Status
	Initialize Status

4-1-2 Setting the memory switch status of the Printer

After getting the memory switch status of the printer, the status of the printer can be modified.

mory switch Printer Setting		Setup Status
/irtual Memory Switch Status Display		Print Status
[PIN 1] Reserved	Disable	
[PIN 2] Reserved	Disable	Print Codepage
[PIN 3] Reserved	Disable	Get Status
[PIN 4] Reserved	Disable	Set Status
[PIN 5] Reserved	Disable	•
[PIN 6] Reserved	Disable	User Status Setting
[PIN 7] Reserved	Enable	Save Status
[PIN 8] Reserved	Disable	- Load Status
Memor switch : 💌 1	< Back Next >	Initialize Status

1) "Get Status"

Pressing this button displays the current memory switch settings read from the printer.

2) "Set Status"

Pressing this button allows the user to designate switch settings of the printer.

3) "Save Status"

Pressing this button saves the current memory switch settings to file.

4) "Load Status"

Pressing this button loads and displays the previously-saved memory switch settings file.

5) "Initialize Status"

Pressing this button resets the memory switch settings.

### 6) Code page

The user may select and set the code page.

irtual Memory Setting Manager		
Memory switch Printer Setting Paper Sa	ve Mode   Bluetooth configuration   Maintenance counter	Setup Status
Printer Model :		Print Status
Firmware Version :		Print Codepage
Codepage	Emulation	Get Status
Single byte country  PC437 (USA: Standard Europe)  Double byte country	Emulation 1 [Default]     Single byte font selection	Set Status
Power Save Mode	Font A (12x24)	User Status Setting
O Disable	Print Speed & Density Setting method	Save Status
Enterance time(sec): 20	Memory Switch     Operative 4 [Default]	Load Status
	Speed 4 [Default]	Initialize Status
		Close

#### 7) Cutter Depth Adjustment

Supported Model : SRP-380/382, SRP-S300 You can set the paper width which is not cut when using a partial cut operation.

ou can	serme	Japer w		using a p	peration.
-					

Memory switch Pr	rinter Setting	Paper Save Mode	Bluetooth configuration Maintenance counter	Setup Status
Printer Model :				Print Status
Firmware Version	:			Print Codepage
Codepage			Emulation	Get Status
PC437 (USA:		pe)	-	Set Status
Double byte co	ountry		Single byte font selection Font A (12x24)	User Status Setting
Power Save Mode © Disable Enterance time	enable		nt Speed & Density Setting method	Save Status
Cutter Depth Adj				Load Status
Default Set	ting	•	penary (penary)	Initialize Status

- 8) 90 Degree Rotation Mode
   Supported Model : SRP-S300L(Liner-free Model)
   Texts prints with 90 degree rotation. (eg: N to Z)
- Back-Feeding Mode Supported Model : SRP-S300L(Liner-free Model) Reverse feeds the paper to the specific position before the start of printing.
- 10) Automatic feed in idle mode

Supported Model : SRP-S300L(Liner-free Model)

Feeds the paper at every specified time interval when the printer is in the sleep mode.

11) Black Mark cut position

Supported Model : SRP-S300L(Liner-free Model) Cut after feeding the paper to the default cutting position or black-mark position.

ual Memory Setting Manager		
Memory switch Printer Setting Paper Save M	ode Bluetooth configuration	Setup Status
Printer Model : SRP-S300 Firmware Version : V00.30 STB 060116	Emulation [Emulation 1 [Default]	Print Status
	I [	Print Codepage
Codepage Single byte country PC437 (USA: Standard Europe)	Print Speed & Density Setting method	Get Status
Double byte country	Speed 3 [Default]	▼ Set Status
Single byte font selection Font A (12x24)	90 Degree Rotation Mode (Ex: N->Z)	User Status Setting
Power Save Mode © Disable  © Enable Enterance time(sec) : 20	Back-Feeding Mode	Save Status Load Status
Cutter Depth Adjustment Default Setting	Automatic feed in idle mode	Initialize Status
	Black Mark cut position	
		Close

#### 4-1-3 Paper Save Mode

Supported Model

- SRP-350III/352III, SRP-350plusIII/352plusIII, SRP-F310II/F312II/F313II, SRP-380/382, BGT-100P/102P, SRP-330II/332II, SRP-340II/342II, SRP-S300

You can select the levels of "Paper Save" and the feature of "Cutting Position Correction" in the "Paper Save Mode" section (tab).

ual Memory Setting Manager				
Memory switch Printer Setting Pa	aper Save Mode Blue	etooth configuration	Maintenance counter	Setup Status
Paper Save Level		Cutting Position	Correction	Print Status
O Disable		🔘 Enable		Print Codepage
🔘 Level 1		🔘 Disable		Get Status
<ul> <li>Level 2</li> <li>Level 3 ( * ASCII code o</li> </ul>	nly )			Set Status
				User Status Setting
				Save Status
				Load Status
				Initialize Status
				Close

4-1-4 Serial communication Setting

#### Supported Model : SPP-100II

Serial Communication and Special Function setting can be enabled in Serial Communication Setting Tab.

	er Setting Serial communication setting		
Communication 9	Setting	Special Setting	Print Status
Baud Rate	115200 💌	Special Setting	Print Codepage
Data Btis	8 -	Special 1	▼
Parity	NONE		Get Status
Flow Control	DTR/DSR -		Set Status
			User Status Setting
			Save Status
			Load Status
			Initialize Status

#### 4-1-5 Bluetooth configuration

Supported Model

- SRP-350IIOBE, SRP-350plusIII/352plusIII, SRP-F310II/F312II/F313II, SRP-380/382, SRP-S300

Bluetooth setting can be changed by Bluetooth Configuration Tab.

In case of Serial(Bluetooth) communication, it is not able to check Bluetooth configuration.

Virtual Memory Setting Manager					
Memory switch Printer Setting Paper Save Mode Bluetooth co	nfiguration	Setup Status			
Bluetooth configuration Operating mode : iOS	MFi Information Firmware version : Ver. 0.2.20	Print Status			
Authentication & Encryption Connection mode	Hardware version : Ver. 1.1.0 Protocol string : com.bixolon.protocol	Print Codepage			
PIN Code Device name	Serial number : 000000000000000	Get Status			
0000 SRP-XXXXXX	Auto Reconnection           O Disable         Re-Count :         60	Set Status			
Get Status Set Status	Enable Interval: 5	User Status Setting			
		Save Status			
		Load Status			
		Initialize Status			
		Close			

#### Authentication & Encryption

Sets or cancels Authentication & Encryption mode when connecting via Bluetooth \* If Authentication & Encryption mode is disabled, connection to a device can be done without a PIN Code.

#### Connection Mode

Sets Mode1, Mode2, or Mode3 when connecting via Bluetooth.

- Mode1: connection possible only with the first device with which connection succeeds
- Mode2: connection with all Bluetooth enabled devices possible via use of a PIN Code

- Mode3: connection possible only with the first device with which connection succeeds and searching or use of connected device possible

#### PIN Code

Changes the PIN Code required for Bluetooth connections.

(maximum 12 characters long)

#### Device Name

Changes the device name produced when establishing a Bluetooth connection. (maximum 12 characters long)

#### MFi Information

In case of iOS mode, MFi information will be displayed.

#### Auto Reconnection

Retry setting on Bluetooth can be enabled when Bluetooth connection is released.

#### 4-1-6 Maintenance counter

Supported Model : SRP-F310II/F312II/F313II, SRP-380/382 You can check the number of auto cut operation and amount of paper feed which have been performed by the printer.

Vi	Virtual Memory Setting Manager SRP-380							
	Memory switch Prin	ter Setting	Paper Save Mo	ode Bluetooth	configuration	Maintenance counter		Setup Status
	Number of autoo	cutter operat	_	143 0.024	Times Km			Print Status         Print Codepage         Get Status         Set Status         User Status Setting         Save Status         Load Status         Initialize Status
								Close

#### 4-2 NV Image Tool

This function helps you to download user-defined images to the flash memory in the printer and to recall and print those images with fast speed.

If the Communication Setting is OK, click the "NV Image Tool" button.

#### 4-2-1 NV Function Option

If the Printer is supported two-color mode, mono (NV bit image) or two-color (NV graphics) mode can be selected.

NV Imag	je Tool		
-Logo F	ile Images		
No.	Name	Size	Open File
			Remove
			Reset
			Download
► Log ► Log	go Files : 0 / 256 go Size Total : 0 / 512 KB	yte	Print
-NV Fur	action Options	Dither	
NV gr		None	•
Brightr	ness		
Dar	ken ,	Q	Lighten
		Close	]
			J

#### 4-2-2 Image List Management

The images can be opened, added, deleted in the Image list box using three buttons in Bitmap selection. Only **bmp** type of image is available to download.

NV Imag	e Tool			
Logo F	ile Images	_		
No.	Name	Size	Open File	
1	Tulips.bmp	24.0		
			Remove	
		(	Reset	
			Download	
Log	go Files : 1 / 256 go Size Total : 24 / 512 KBy!	ha (	Print	· · · · · · · · · · · · · · · · · · ·
				Orignal Image
NV Fur	iction Options	Dither		·
NV gr	aphics 🔹	None	•	- 1 + -
🔄 Gra	ayscale			6 \ h \ v-+ .=
Brightm	iess			
Dar		0	Lighten	
		Close		
		5035		Transformed Image

4-2-3 Correction image

You can get the correction image by selecting a 'Dither', 'Brightness', 'Grayscale' and 'Adjustment' option.

Supported model by 'Adjustment' : SRP-380/382, SRP-S300 Supported model by 'Grayscale'

- SRP-350plusIII/352plusIII, SRP-F310II/F312II/F313II, SRP-380/382, BGT-100P/102P, SRP-330II/332II, SRP-S300

NV Imag	je Tool			
Logo F	ile Images			
No.	Name	Size	Open File	
1	Tulips.bmp	96.0		
2	Penguins.bmp	24.0	Remove	
		[	Reset	
			Download	
► Lo	go Files : 2 / 256 go Size Total : 120 / 512 Ki	Byte	Print	< +
-		-		Orignal Image
NV Fur	nction Options	Dither		·
NV gr	aphics 🔹	None	*	SATE -
🔽 Gr	ayscale	Adjustment		
		Fit to 2"	•	
Bright	ness			
Dar	rken	0	Lighten	CALST AND
		Close	]	STELS I LAND MARKING -
	<u> </u>		٣	Transformed Image

#### 4-2-4 Download the image

1) When the "Download" button is clicked, pop-up window and the steps are different based on printer model.

Image Tool			
Logo File Images			
No. Name	Size	Open File	
1 Tulips.bmp	96.0		
		Remove	
	[	Reset	
		Download	
Logo Files : 1 / 256	[	Print	۲ m F
Logo Size Total : 96 /	128 KByte		Orignal Image
V Function Options	Dither		
NV graphics	Error Diffu	usion 👻	
✓ Grayscale			
rightness			
Darken	Q	Lighten	
	Close	]	
1. Contract 1. Con			, Transformed Image

2) After all images stored on the corresponding printer are deleted, the image matching the selected resolution level is downloaded. The image is assigned a number according to the image list displayed on the screen.

NV Download Manager	-	x
Used Address If printer interface is USB, it doesn't display used addresses	Download Status Available printer flash memo Downloading cafeblue208	
00 01	Memory Function	Auto Address Download
	Delete Address	User Defined Address Download
		Close

#### 4-2-5 Print the image

1) The "Print" button in the main screen can be used on each printer model to print and test a stored image.

/ Image Tool			
Logo File Images			
No. Name	Size	Open File	
1 Tulips.bmp	96.0	Remove	
		Reset	
		Download	
Logo Files : 1 / 256		Print	< F
Logo Size Total : 96 / 1	128 KByte		Orignal Image
NV Function Options NV graphics Grayscale	Error Diffu:	sion *	ATTE
Brightness Darken		Lighten	MAUS.
	Close		Transformed Image

2) After selecting the image to print following the recall of the addresses of all currently stored images, press the "Print" button to print.

NV Image	×
NV Image Address	
00 01	Get Address List
	Remove
	Remove All
	Print
	Print All
	Custom address
	00
	Print
	Close

#### 4-3 Using the Command Test Editor

- 1) If the Communication Setting is OK, click the "Command Test Editor" button.
- 2) If the "Command Test Editor" button is pressed, the following dialog box will appear. Using this Dialog, the user can write and edit the command and send to the printer. Each button of "Printing Option" and "Etc" group can insert commands to edit box. Also "Write Command" button can transfer these commands to the printer. To verify the result of sending the command can use the "Print Test String" button.

Command Test Editor	
Command (Hex Value, Ex: 1d 61 ff 0a)	Write to the Printer Write Command Test Printing Print Test String
* After Editing the Command, Click the Command Write Button to send the Printer.	Self Test Clear command
Printing Option Font Font A Font B Line Spacing Sele Alignment	ct Codepage Bold Underline
Left Alignment     Center Alignment     Right Alignment       Status check     Cash Drawer       Status check     Open Drawer 1 50ms(2pin)	Paper Cut Feed Open Drawer 2 50ms (5pin)
File Save Load	Close