

**BIXOLON®**

**Software Manual**

# **Unified Label Utility-II**

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**Rev. 2.01**

**SLP-DX420 / DX423**

**SLP-DX220 / DX223**

**SLP-TX400 / TX403**

**SLP-TX420 / TX423**

**SLP-TX220 / TX223**

**SLP-DL410 / DL413**

**SRP-770III / E770III**

**XT5-40 / XT5-43 / XT5-46**

**SPP-L3000**

<http://www.bixolon.com>

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# 1. Manual guide

The Unified Label Utility-II can be used for various purposes.

It is advisable to read the contents of this manual carefully before using “Unified Label Utility-II” utility for the first time.

### 1) User Setting Manager

This is for changing the printer's default settings such as serial settings, paper size, and print density according to the user's environment.

### 2) Configure Print Quality

This is used to check and set print quality by printing sample labels by the print quality.

### 3) Manual Calibration

This is for manual calibration of gap sensor.

### 4) PCX File Downloader

This manages the images stored in flash memory.

### 5) File transfer

This sends the command file to the printer.

### 6) Printer Tools

This checks the information of a printer or performs the specified function.

### 7) Communication Window

This tests the commands for printing and checks the printer's response data.

### 8) SLCS Test Tool

This tests the SLCS (Bixelon Label Printer Emulation) command and creates a simple label.

## **2. Operating System(OS) Environment**

The following operating systems are supported for usage.

- Microsoft® Windows XP SP3 (32bit)
- Microsoft® Windows XP SP1 or later (64bit)
- Microsoft Windows Server 2003 SP1 or later (32bit/64bit)
- Microsoft Windows VISTA (32bit/64bit)
- Microsoft Windows Server 2008 (32bit/64bit)
- Microsoft Windows Server 2008R2 (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) Connection of Printer with PC

Connect the interface cable between the printer and the PC.

(The available interfaces are Serial, Parallel, USB, Ethernet, and Bluetooth.)

### 2) Execution of Unified Label Utility-II Program

The program is provided on CD and the latest version is downloadable from our homepage.

([www.bixolon.com](http://www.bixolon.com))

The file name is “Unified Label Utility-II\_Vx.x.x.exe”.

### 3) Select the interface type and configure communication setting.

### 4) Click the “Connect” button.

If the connection is successful, the message “Success open port” appears and the buttons are activated. If a printer is not connected, the error message “Cannot open port! Please check printer and cable” appears.

Unified Label Utility-II (Version 2.1.3)

Interface Type

Serial  Parallel  USB

Ethernet  Bluetooth

Communication Setting

LPT Port: LPT1

COM Port: COM1

Baud Rate: 115200

Data Bits: 8

Parity: None

Stop Bits: 1

IP: 192 . 168 . 1 . 123

Port: 9100

Connect Disconnect

User Setting

Configure Printer Setting

Configure Print Quality

Calibration Setting Manager

File Transfer

PCX File Downloader

File Transfer

Printer Tool

Printer Tool

Communication Tool

SLCS Test Tool

RFID

Set Configuration Write/Read

EXIT

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## 4. Usage Method

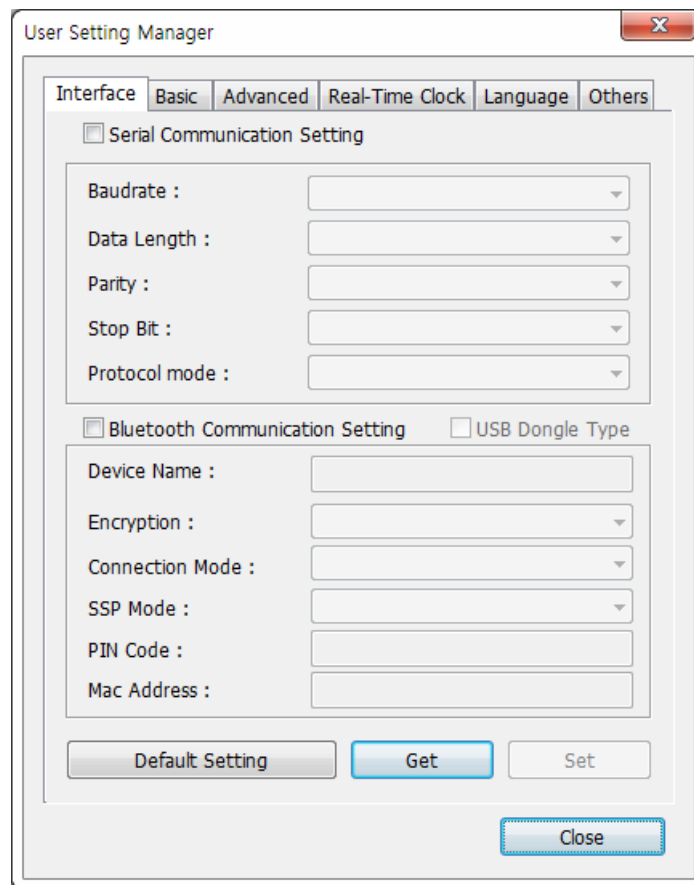
### 4-1 User Setting Manager

- This is used to change the default settings of the printer, such as serial / Bluetooth settings, paper size, print density, and media processing method, according to the user's environment.

Click the button “Configure Printer Setting.”

#### 4-1-1 Serial/Bluetooth Communication Setting

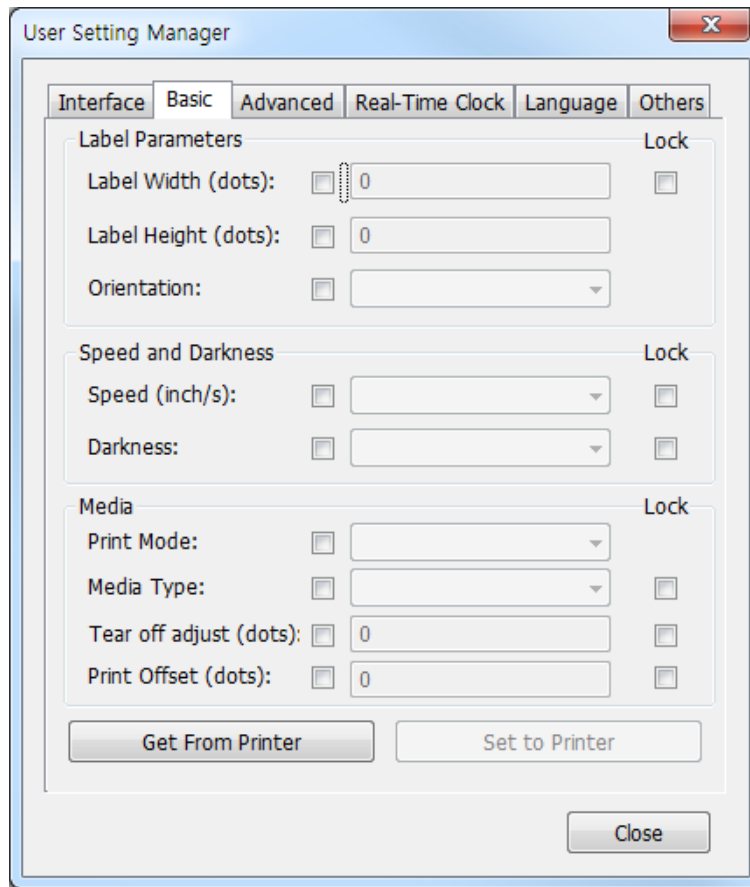
- 1) Click the “Interface” tab.
- 2) Select the checkbox of the interface to be configured between serial and Bluetooth.



- 3) Click the “Get” button and check the printer settings.
- 4) After changing each set value, click the “Set” button.
- 5) After clicking the “Default Setting” button, click the “Set” button to set to default.

## 4-1-2 Basic Setting

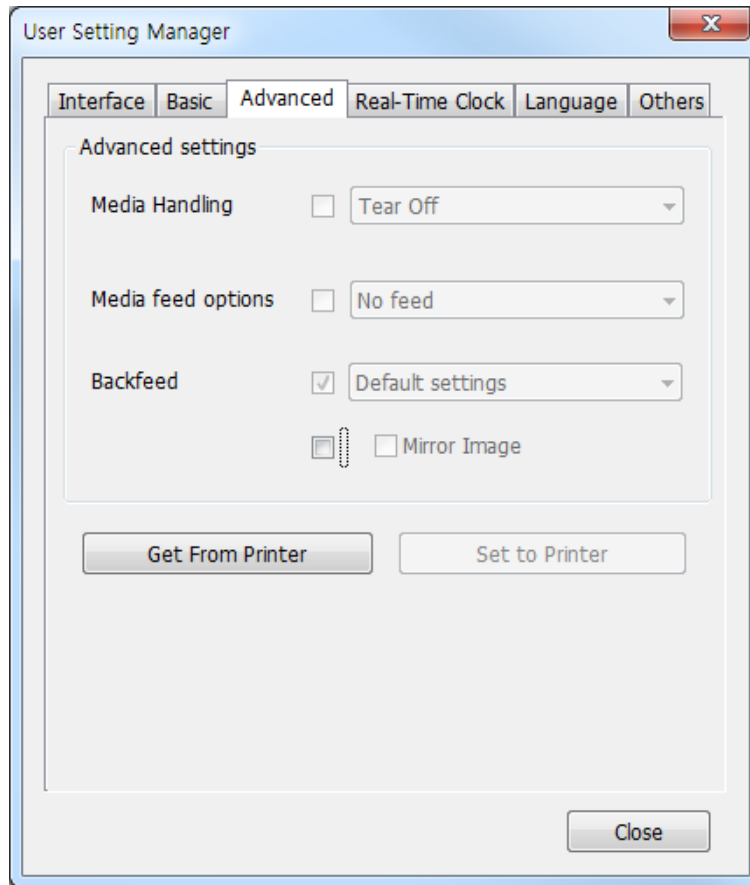
- 1) By clicking the “Basic” tab, check the settings of label parameters, speed, print density, and media.



- 2) Click the “Get” button to check the printer settings.
- 3) Change the values as desired.
- 4) Select the Lock Checkbox to lock the setting.
- 5) After changing each value, click the “Set to Printer” button to apply it to the printer.

### 4-1-3 Advanced Settings

1) By clicking the “Advanced” tab, check the current settings of the media processing method.



2) Click the “Get” button to check the printer settings.

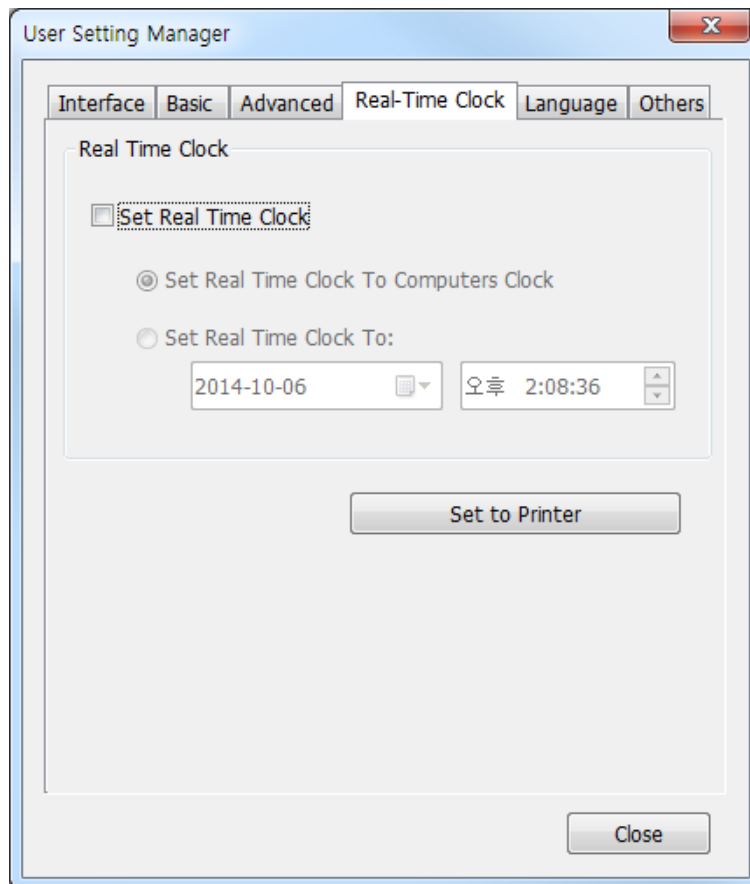
3) Change the values as desired.

4) After changing each value, click the “Set to Printer” button to apply it to the printer.



### 4-1-4 Real-time Clock

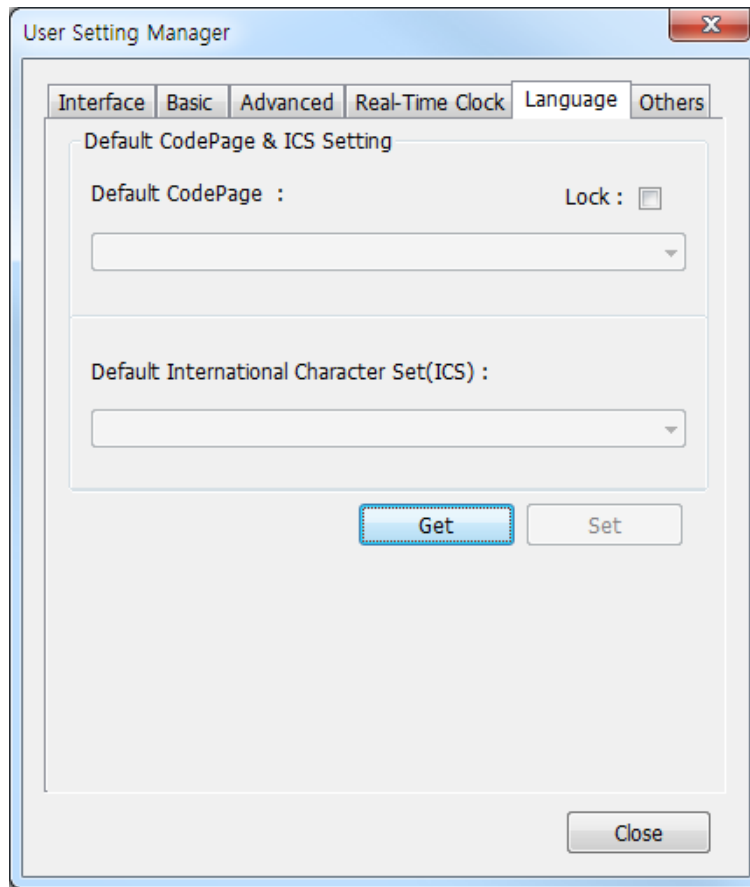
1) By clicking the “Real-time Clock” tab, check the current settings of the real-time clock.



2) Click the “Set to Printer” button to apply the specified time to the printer.

### 4-1-5 Language

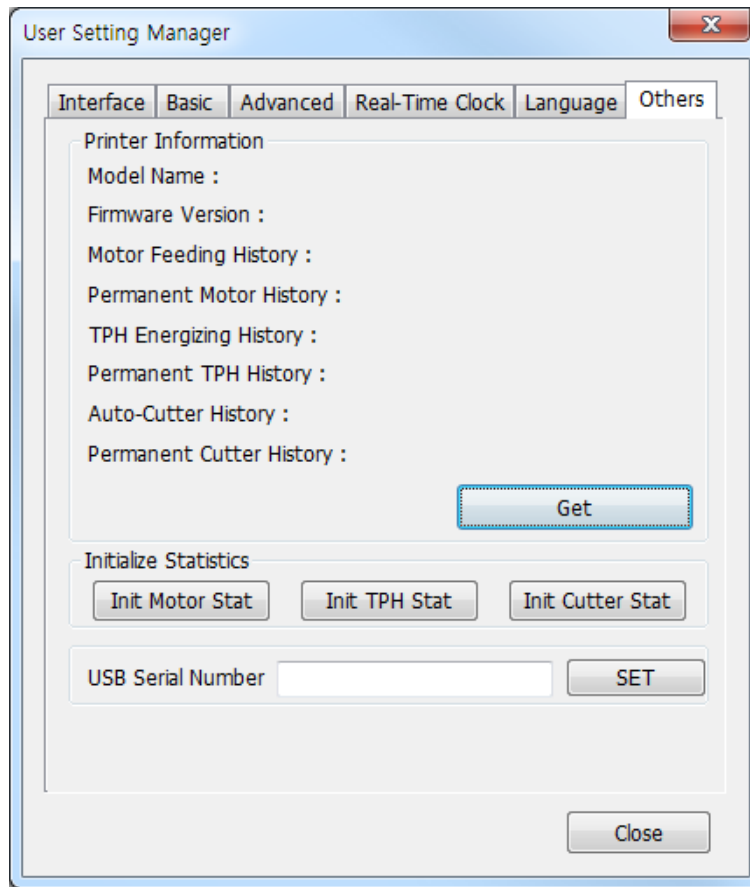
- 1) Click the “Language” tab to display the values of the default codepage and the default international character set.



- 2) Click the “Get” button to check the printer settings.
- 3) After changing each value, click the “Set” button to apply it to the printer.

### 4-1-6 Others

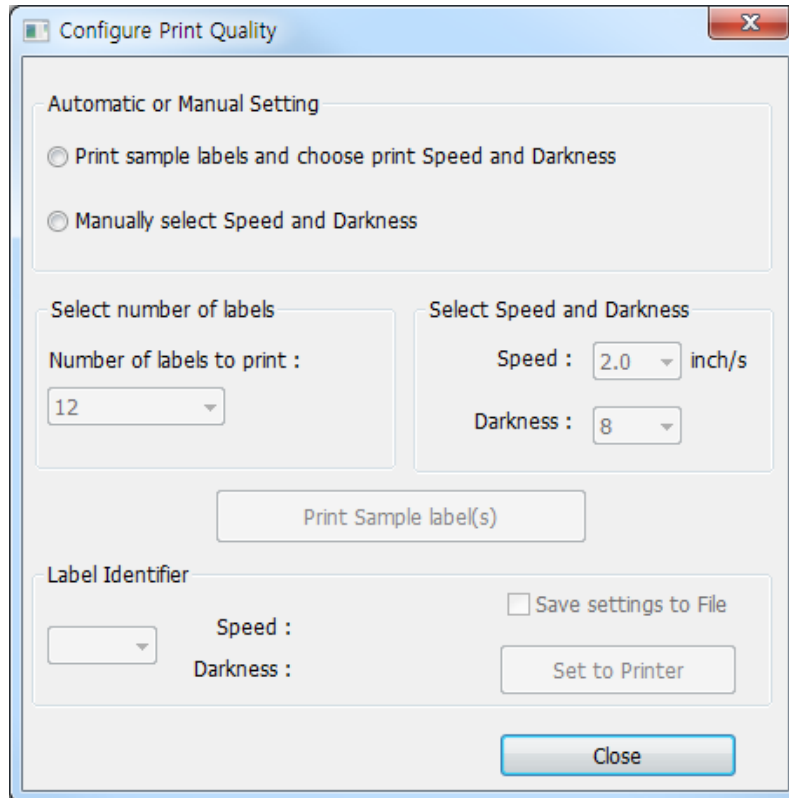
- 1) Click the “Other” tab to display the printer information, information initialization button, and USB serial number setting screen.



- 2) Click the “Get” button of the “Printer Information” to display the printer settings.
- 3) Click the “Init Motor Stat,” “Init TPH Stat,” “Init Cutter Stat” buttons to initialize each value.
- 4) After entering 13 characters in USB serial number, click the “Set” button.

### 4-2 Configure Print Quality

- This is used for printing sample labels by the print quality to check and set print quality.



- Printing of sample label and selecting of speed and print density

- 1) Select the desired number from “Select number of labels.”
- 2) Click the “Print Sample label(s)” button, and sample labels will be printed at random speed and print density (darkness).
- 3) After checking the printing result, select the desired setting from “Label Identifier” and click the “Set to Printer” button to apply it to the printer.

- Selecting of manual speed and print density

- 1) Select the desired speed and print density (darkness).
- 2) Click the “Print Sample label(s)” button to check the print of the selected setting.
- 3) “Click the "Set to Printer" button to apply the settings to the printer.

### 4-3 Manual Calibration

- The manual calibration function of gap sensor is used when the printer cannot sense the gap (or black mark) of the label paper even after using the automatic calibration function.

Click the “Calibration Setting Manager” button.

Manual Calibration

Sensing Value Distribution

32 : 0000  
64 : 0000  
96 : 0000  
128 : 0000  
160 : 0000  
192 : 0000  
224 : 0000  
256 : 0000  
288 : 0000  
320 : 0000  
352 : 0000  
384 : 0000  
416 : 0000  
448 : 0000  
480 : 0000  
512 : 0000  
544 : 0000  
576 : 0000  
608 : 0000  
640 : 0000  
672 : 0000  
704 : 0000  
736 : 0000  
768 : 0000  
800 : 0000  
832 : 0000  
864 : 0000  
896 : 0000  
928 : 0000  
960 : 0000  
992 : 0000  
1024 : 0000

STEP 1 : Start

Sensing Type :  
 G  B

Label Length : (mm)  
150

Check Sensing Value

STEP 2 : Save

Middle Gap Value :  
0

Gap Count :  
7

Save Calibration

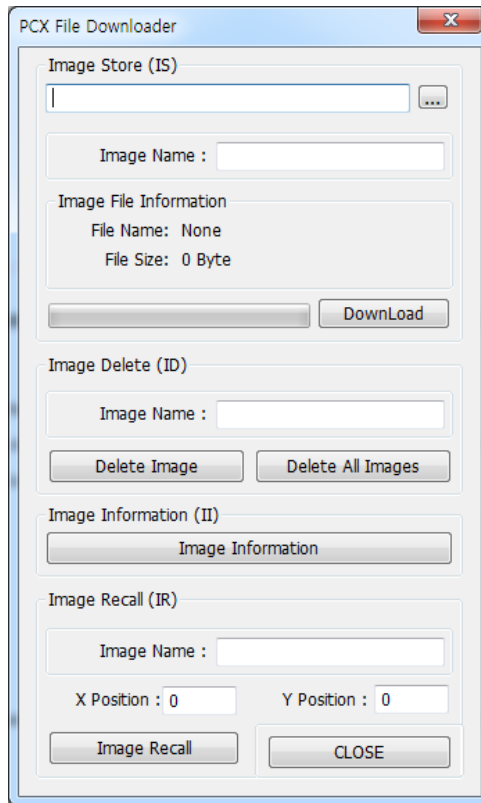
Cancel  
Cancel Calibration

CLOSE

- 1) After selecting Sensing Type and entering Label Length(mm), click the “Check Sensing Value” button.
- 2) Select the desired value among the values on the left and click the “Save Calibration” button.
- 3) If sensing is not performed normally, select another value and click again the “Save Calibration” button.
- 4) Click the “Cancel Calibration” button to reset to the default value.

## **4-4 PCX File Downloader**

- Manage the images stored in flash memory.



### 4-4-1 Image Store (IS command)

- 1) Select the image file (\*.pcx, \*.bmp, \*.jpg).
- 2) Enter "Image Name" and click the "DownLoad" button to start the download.  
The entered Image Name is used to retrieve (IR) or delete (ID) the image.

### 4-4-2 Image Information (II command)

Prints the information of the image stored in the printer.

### 4-4-3 Image Delete (ID command)

- 1) Deletion of a specific image  
Enter the image name to be deleted and click the "Delete Image" button.
- 2) Deletion of all images  
Click the "Delete All Images" button.

### 4-4-4 Image Recall (IR command)

In order to output the stored image, enter the image name and click the "Image Recall" button.

### 4-5 File Transfer

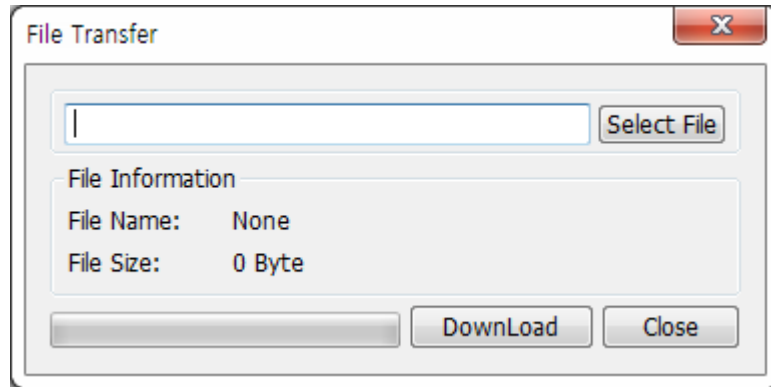
- It transfers the file to the printer.



#### **Caution**

The contents of the file should consist of commands supported by the printer.

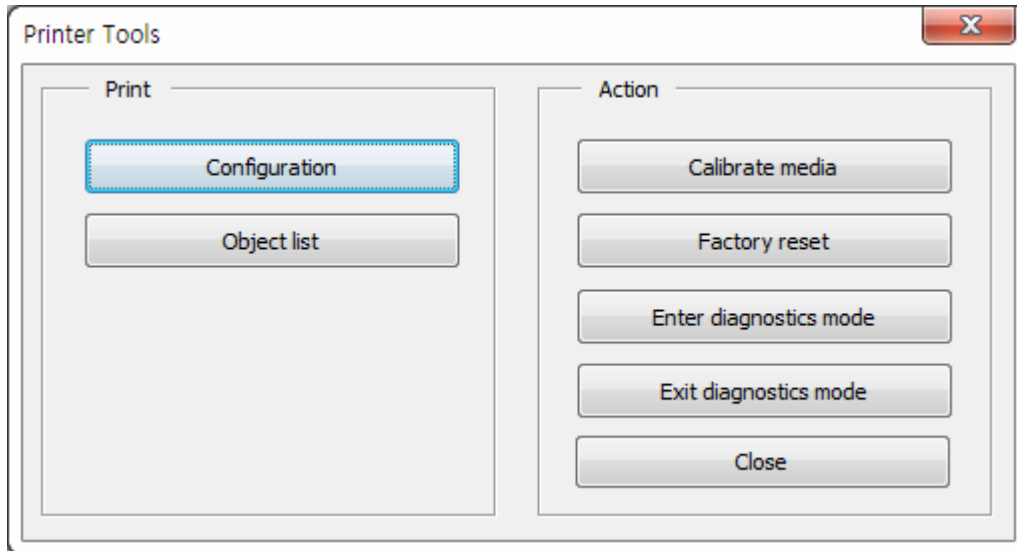
- 1) Select the “Select File” button to choose the file.



- 2) Click the “Download ” button.

### 4-6 Printer Tools

- It checks the printer information, or performs the specified function.



#### 1) Print

- Configuration: Prints the printer settings.
- Object list: Prints the object information (barcode, image, font, etc.) registered in the printer.

#### 2) Action

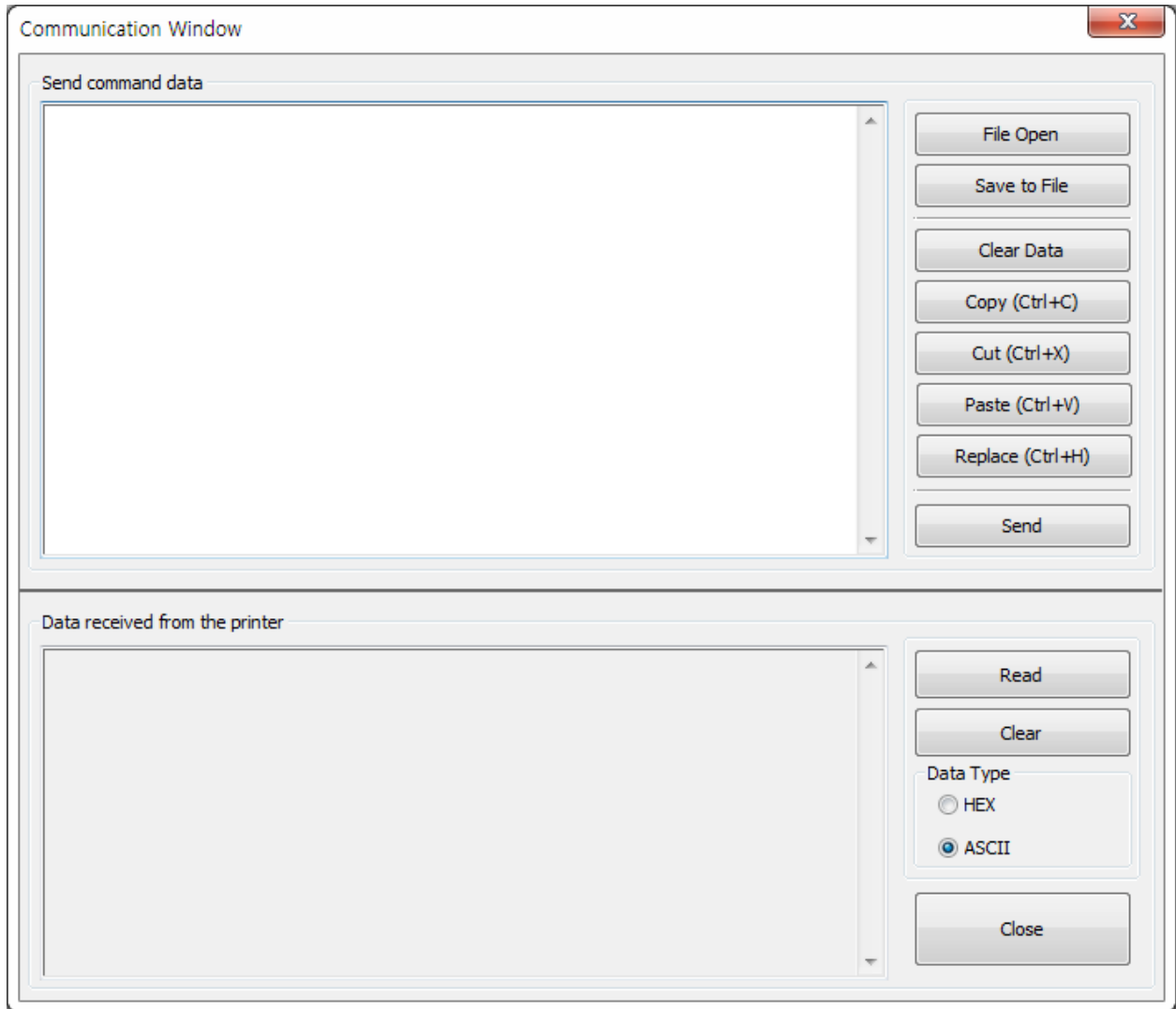
- Calibration media : Adjusts the sensor value by the label size and type.
- Factory reset : Sets the printer to factory default.
- Enter diagnostics mode: Runs in Diagnostics Mode (all data received by the printer is printed in ASCII characters and Hexadecimal).
- Exit diagnostics mode: Switches to normal mode from diagnostics mode.



## **4-7 Communication Window**

- This tests the commands for printing and checks the response data of the printer.

1) Click the “Communication Tool” button.

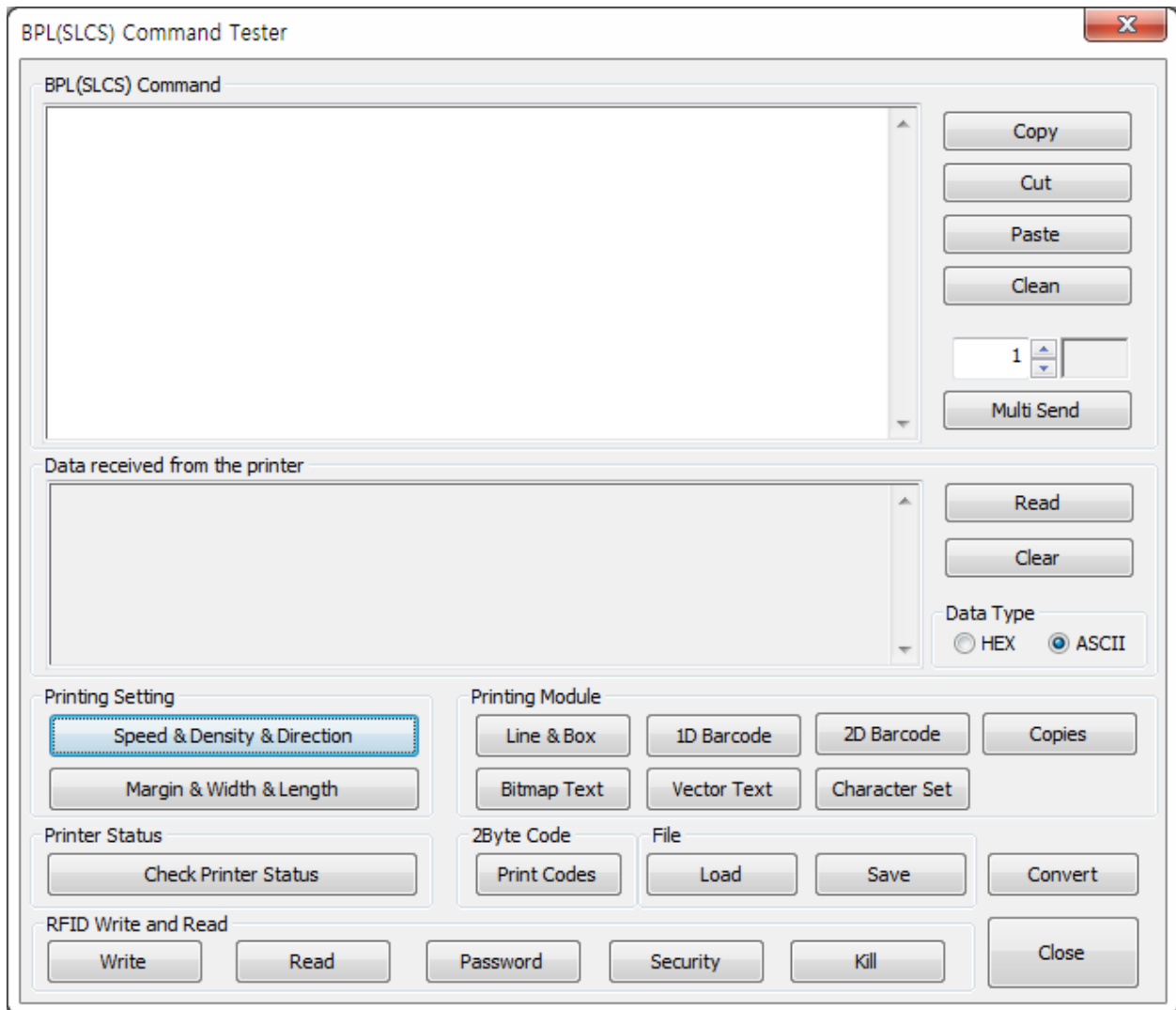


- 2) Command transmission: 2 ways of command transmission.
- Manual input: Manually input the command in the Send Command Data window.
  - File selection: Click the File Open button to choose the file.
- 3) “Send” button: Transmits the input command.
- 4) “Read” button: Displays response data.
- 5) “Clear” button: Clears the displayed response data.

## 4-8 SLCS Test Tool

• This tests the SLCS (Bixolon Label Printer Emulation) command and creates a simple label.

1) Click the “SLCS Tester” button.



2) “Multi Send” button: Transmits the input command for a specified number of times.

3) “Read” button: Displays response data.

4) “Clear” button: Clears the displayed response data.

5) The function of each button is as follows.

Item	Button	Description
Printing Module	Line & Box	Generating commands to draw lines and boxes
	1D barcode	Generating one-dimensional barcode command
	2D barcode	Generating two-dimensional barcode command
	Copies	Number of copies
	Bitmap Text	Generating bitmap image string recognition command
	Vector Text	Generating vector image string recognition command
	Character Set	Generating code page and ICS configuration command
Printing Setting	Speed & Density & Direction	Generating configuration command for speed, print density, and print direction
	Margin & Width & Length	Generating configuration command for margin and print paper width and length
Printer Status	Check Printer Status	Function to check printer cover, paper, and error status
RFID Write and Read	Write	Writing data to RFID tags
	Read	Retrieving data from RFID tag
	Password	Setting a password on RFID tag
	Security	Setting the security code on the RFID tag
	Kill	Disabling RFID Tags
2Byte Code	Print Codes	Printing double-byte characters (Korean, Chinese, Japanese)
File	Load	Loading the file in which the command was saved
	Save	Saving the generated command as a file
Convert	Convert	Converter of each unit (inch, mm, cm)
Close	Close	Closing SCLC test program

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## **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**

Rev.	Date	Page	Description
2.00	13.03.18	-	New
2.01	18.05.18	1,5	XT5-4x Serise Add, Utility Capture Image Change