# iK4R

# **Thermal Transfer**

# **Barcode Printer**



**User Manual** 

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Rev.1.0

## Contents

Important Safety Instructions1
Chapter 1 Introduction5
1.1 Packing List5
1.2 Appearance and Components
1.3 Dimension
Chapter 2 Specifications
Chapter 3 Installation & Usage
3.1 Ribbon and Paper Loading12
3.1.1 Ribbon loading12
3.1.2 Media Loading14
3.1.3 Media Path17
3.2 Power Connection
3.3 Peripherals Connection
3.4 Operation Panel 21
3.4.1 Panel Introduction
3.4.2 Button Function Definition
3.4.3 Buzzer
3.4.4 Indicator Definition23
3.5 Display Operation Procedure25
3.6 RFID Settings
3.6.1 RFID Label Anntenna
3.6.2 RFID Calibration
3.6.3 Set RFID Reading Power28
3.6.4 Set RFID Write Power
3.6.5 Read RFID Data28
3.6.6 Set RFID Encode Position

Chapter 4 Interface	29
4.1 USB Interface	29
4.2 Other Optional Interfaces	30
Chapter 5 Maintenance & Adjustment	34
5.1 Cleaning Thermal Print Head	34
5.2 Cleaning Roller and/or Paper Path	35
Chapter 6 Printer Utility Tool Instructions	36
6.1 Installation Preparation	36
6.2 Usage	36
Chapter 7 Seagull Windows Driver Instructions	53
7.1 Introduction	53
7.2 Installation Preparation	53
7.3 Installation	54
7.4 Usage	60
7.4 Usage 7.4.1 Printing Preferences	60 60
<ul> <li>7.4 Usage</li> <li>7.4.1 Printing Preferences</li> <li>7.4.2 Printer Properties</li> </ul>	60 60 72
<ul> <li>7.4 Usage</li> <li>7.4.1 Printing Preferences</li> <li>7.4.2 Printer Properties</li> <li>Chapter 8 BarTender UltraLite Instructions</li> </ul>	60 60 72 76
<ul> <li>7.4 Usage</li> <li>7.4.1 Printing Preferences</li> <li>7.4.2 Printer Properties</li> <li>Chapter 8 BarTender UltraLite Instructions</li> <li>8.1 Introduction</li> </ul>	60 72 76 76
<ul> <li>7.4 Usage</li> <li>7.4.1 Printing Preferences</li> <li>7.4.2 Printer Properties</li> <li>Chapter 8 BarTender UltraLite Instructions</li> <li>8.1 Introduction</li></ul>	60 72 76 76 76
<ul> <li>7.4 Usage</li> <li>7.4.1 Printing Preferences</li></ul>	60 72 76 76 76 76 77
<ul> <li>7.4 Usage</li> <li>7.4.1 Printing Preferences</li></ul>	60 72 76 76 76 76 77 81
<ul> <li>7.4 Usage</li> <li>7.4.1 Printing Preferences</li></ul>	60 72 76 76 76 77 81 81
<ul> <li>7.4 Usage</li> <li>7.4.1 Printing Preferences</li></ul>	60 72 76 76 76 77 81 81 90
7.4 Usage 7.4.1 Printing Preferences	60 72 76 76 76 76 76 
7.4 Usage 7.4.1 Printing Preferences 7.4.2 Printer Properties Chapter 8 BarTender UltraLite Instructions 8.1 Introduction 8.2 Installation Preparation 8.3 Installation 8.4 Usage 8.4.1 Page Settings 8.4.2 label Edit Appendix I Display Menu Appendix II Warning	60 72 76 76 76 77 81 81 81 90 90 94 94

# **Change Record**

Rev.	Date	Description
1.0		

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Printed in China

1.0 Version

# Warnings

Kervice And the secomplied with in order to avoid any damage to the human body and the equipment.

This is showing the important information and tips for the printer operation.

Note: Due to continuous update of our product, the description of printer specification, accessories, design in this manual may be slightly different. Please keep in kind prevail.

# **Important Safety Instructions**

Before using the appliance, please carefully read the following safety regulations in order to prevent any hazard or material damage.

#### 1. Safety warning

Warnings: The print head will become very hot during printing. avoid contact with the print head

after printing has finished.

Warnings: Do not touch the printer head and connector in case static damage the printer head.

#### 2. Instructions

### Warnings: Violating following instructions can cause serious injury or death.

1) Do not plug several products in one multiperture outlet.

- This can provoke over-heating and a fire.
- If the plug is wet or dirty, dry or wipe it before usage.
- If the plug does not fit perfectly with the outlet, do not plug in.
- Be sure to use only standardized multiperture outlet.
- 2) You must use the supplied adapter.
  - It is dangerous to use other adapters.
- 3) Do not pull the cable to unplug.
  - This can damage the cable, which is the origin of a fire or a breakdown of the printer.
- 4) Do not plug in or unplug with your wet hands.
  - You can be electrocuted.
- 5) Do not bend the cable by force or leave it under any heavy object.
  - A damaged cable can cause a fire.

# Note: Violating following instructions may cause slight damage of the appliance.

1) If you observe a strange smoke, odour or noise from the printer, unplug it before taking following measures.

- Switch off the printer and unplug the set from the mains.
- After the disappearance of the smoke, call your dealer to repair it.
- 2) Install the printer on the stable surface.
  - If the printer falls, it can be broken and you can hurt yourself.
- 3) Use the approved accessories only and do not try to disassemble, repair or remodel it by yourself.
  - Call your dealer when you need these services.
  - Do not touch the blade of auto cutter.
- 4) Do not let water or other foreign objects drop into the printer.
  - If this happened, switch off and unplug the printer before calling your dealer.
- 5) Do not use the printer when it is out of order. This can cause a fire or an electrocution.
  - Switch off and unplug the printer before calling your dealer.
- 6) Other considerations:
  - Place the printer on a solid and even base so that it cannot fall.
  - Leave enough space around printer for operation and maintenance.
  - Keep all liquids away from the printer.
  - Do not expose the printer to high temperatures, direct sunlight or dust.
  - Ensure the printer is connected to a socket with the correct mains voltage.
  - Switch off the printer POWER supply when it's not in use for a long time.
  - To ensure the printing quality and reliability, suggest use the same quality or recommend paper supplier.
  - Pls. switch off the POWER supply when connect/disconnect all the ports or it will cause damage to the printer control circuit.
  - Never carry out maintenance or repair work yourself. Always contact a qualified service Technician.
  - Keep this User Manual in a place which is easily accessible for all times.

iK4R User Manual

#### 3. Other Precautions

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#### 4. WEEE (Waste Electrical and Electric Equipment)



This mark shown on the product or its literature indicates that the corresponding item should not be discarded at the end of its working life with others household waste. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate marked items from other types of waste and recycle them

responsibly to promote the sustained reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office for details of where and how they can conduct environmentally safe recycling of such items. Commercial users should contact their suppliers and check the terms and conditions of purchase contracts. This product should not be combined with other commercial waste for disposal.

Caution: This is a Class A product. In a domestic environment this product may cause radio interference in which the user may be required to take adequate measures.

3

iK4R User Manual

#### **5.FCC WARNING**

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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver.

-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.

# **Chapter 1 Introduction**

## 1.1 Packing List

1. Unpack the printer and keep the packing material in case you need to ship the printer in the future.

2. Any damages exist, please contact the local dealer.



Printer



Power Cord



USB Cable



Quick Start Guide



## **1.2 Appearance and Components**

#### Front View









Rear View

#### Inside View



- (1) Ribbon Supply Spindle
- 2 Ribbon Rewind Spindle
- ③ Print Head Module
- Platen
- (3) Print Head Lever
- Paper Guide Adjusting Knob
- ⑦ Detection Adjusting Knob
- ® RFID Module
- Printer Mechanism
- @ Media Sensor
- Ribbon Supply Spindle Nut
- 12 Side Cover
- Media Supply Spindle

Printer Mechanism



Note: The views above are for your reference. Ports vary by your choice.

## 1.3 Dimension













# **Chapter 2 Specifications**

Item		Parameter		
Model		iK4R		
	Printing Method	Direct thermal/ Transfer thermal		
	Resolution	203dpi/300dpi/600dpi		
	Max.	203dpi:14ips		
	Printing	300dpi:10ips		
Drinting	Speed	600dpi:6ips		
Finding	Max.	203dpi:104 mm		
	Printing	300dpi:106 mm		
	Width	600dpi:106 mm		
	Max.	203dpi:3810 mm		
	Printing	300dpi:2540 mm		
	Length	600dpi:762 mm		
Programmi	ng Language	DPL,EPL2,ZPL-II,TSPL		
		Working frequency FCC 902-928MHz adjustable		
RF	ID	Supports EPC Class1/Gen 2, ISO18000-6C		
	Туре	Folding paper or web paper, die-cut or continuous label paper, black mark paper		
	Width	20 mm - 114 mm		
	Thickness	0.08 mm - 0.25 mm		
Media	Min Height	3 mm		
	Roll Paper Diameter	203 mm		
	Int. Diameter	76.2 mm		

#### iK4R User Manual

Item		Parameter
	Туре	Wax, Resin, Mixes Base
Pibbon	Inside Diameter	25.4 mm
ווסממוא	Width	30 mm – 110 mm
	Max length	450 meters
Processor		32-bit RISC CPU
Built in fonts	Bitmap Font	6, 8, 12, 16, 32, OCR A&B. 90 °, 180 °, 270 ° rotation and 10x magnification in both horizontal and vertical directions
Built-in fonts	Vector Font	Equal width CG Triumvirate ™ Vector font
	Bitmap Font	90 °, 180 °, 270 ° rotatable, single text 90 °, 180 °, 270 ° rotatable
Downloadable fonts	Vector Font	90 °, 180 °, 270 ° rotatable
	Asian Characters	16x16, 24x24 Traditional Chinese, Simplified Chinese, Japanese, Korean
One-dimens	ional Code	Code 39, Code 93, EAN 8/13 (add on 2 & 5), UPC A/E (add on 2 & 5), I 2 of 5 & I 2 of 5 with Shipping Bearer Bars, Codabar, Code 128 (subset A, B, C), EAN 128, RPS 128, UCC 128, UCC/EAN-128 K-Mart, Random Weight, Post NET, ITF 14, China Postal Code, HIBC, MSI, Plessey, Telepen, FIM, GS1 DataBar, German Post Code, Planet 11 & 13 digit, Japanese Postnet, I 2 of 5 with human readable check digit, Standard 2 of 5, Industrial 2 of 5, Logmars, Code 11, Code 49, Cadablock
QR code		PDF417, Data matrix code, Maxi Code, QR code, Micro PDF417, Micro QR code, Aztec code
Dimension		460.4*263.6*330.5 mm
		12.5 Kg

#### iK4R User Manual

Item Parameter			
			Out-of-paper Sensor
			Gap Sensor
	Sensor		Cover Opening Sensor
			Black Mark Sensor
			Thermal Head Temperature Detection
			1 USB2.0 Type-B
			1 USB HOST
		Standard	1 100/1000Mps Ethernet Interface
Hardwara	Interface		1 RS232 Serial Interface
Specification	interface		Bluetooth
Specification			Wi-Fi
		Optional	1 Parallel Interface
			1 GPIO Interface
	Memory	RAM	1GB
	Wembry	Flash	2GB
			5 indicators, 3 control keys: (pause key, feed key,
	Display		cancel key)
			1 5.5 inch color touch screen
			Clock
Security Specification			CCC,FCC,CE,CB,UL,RoHS
			WEEE
Working	+5°C $\sim$ +40	°C	
Temperature			
Relative Humidity	30% ~85%	, non-conde	ensing
Power Input	100V AC $\sim$ 240V AC, 50Hz $\sim$ 60Hz		
	Electric cutter module (cutter, rotary blade)		
	Label stripping module		
Optional	Built-in bottom paper rewinding device (can rewind the entire roll to print		
	labels, or rewind the bottom paper)		
	UHF RFID module		

# **Chapter 3 Installation & Usage**

## 3.1 Ribbon and Paper Loading

## 3.1.1 Ribbon loading

1.Place the printer on the flat table, lift the cover from the bottom-right of printer by hand.



2.Load the ink ribbon into ribbon supply spindle, then anticlockwise tighten the ribbon supply spindle nut to fix the ribbon.



Anticlockwise



3. Pull part of the ribbon through the lower part of the

4.printer mechanism.

13

4. Pass the ribbon over the printer mechanism and stick the ribbon on the rewind spindle, then wrap it several turns around the ribbon rewind spindle so that make the ribbon flat.



## 3.1.2 Media Loading

1. Take out the media, align the media with the media supply spindle and put it in. Then put the media baffle back into the printer.



2. Pull out part of the paper roll, pass through the lower part of the paper guide roller 1 and the upper part of the paper guide roller 2, then pass under the media sensor, and then pull to the paper outlet.Adjust the paper guide adjusting knob according to the paper width to fix both sides of the paper (increase clockwise and decrease anticlockwise).



3. When using the gap label, black mark label or punch hole label, you can adjust detection indicator by the detection adjusting knob for detecting print position.



4. After finishing the label loading, turn down the print head lever to make ribbon and label fit snugly.



## 3.1.3 Media Path

## 1. TEAR-OFF mode



## 2.CUTTER mode



### 3. PEEL-OFF/REWIND mode



## **3.2 Power Connection**

1.Connect the power plug to power receptacle.

2.Connect the other end of power cord to the AC power port.





- Use the original power adapter only. Avoid the damage caused by charging improperly.
- Please unplug the printer power cord if it is not in use for a long time.

## **3.3 Peripherals Connection**

When printing paper, the moveable label sensor is used to detect paper. The label sensor moves differently when using various kinds of paper. If user moves the sensor improperly, paper may not be detected, therefore the printer could not print paper. The following instructions tell users how to use label sensor correctly. Please read it carefully.

When printing, the sensor shall be aimed at the triangle below, which is the original position.



### **3.4 Operation Panel**

#### 3.4.1 Panel Introduction

The panel indicates the printer's operating status and allows the user to control basic printer operation.



#### **3.4.2 Button Function Definition**

- 1. Feed button:
  - In the ready state, press the feed button (<1 seconds), then release the feed button. The printer will make a blank paper positioning according to label / black mark label. If it is continuous paper, press the feed button and the printer will continue to feed the paper. Release the paper feed button to stop printing immediately.
  - In the ready state, press the feed button and cancel button (approx. 2 seconds). And the printer prints the self-test page.
- 2. Pause button:
  - In Printing: short press to pause print.
  - Printing Pause: short press to keep printing.
- 3. Cancel button:
- Short press to cancel the current printing task.
- Note: short press: 0.3 seconds to 1 seconds.

Long press: larger than 3 seconds

## 3.4.3 Buzzer

- 1. Silence: not set / normal
- 2. Beep 0.2 seconds: button response / touch response
- 3. Beep 1.5 seconds and stop 2 seconds: during printing, run out of paper / label off / paper jam

## 3.4.4 Indicator Definition

	• The STATUS indicator light glows green (other indicators glows yellow for 2 seconds when the printer is powered on) The printer is ready.
STATUS PAUSE DATA SUPPLIES NETWORK     (秋悠) (智存) (敗逝) (耗材) (网络)	• The PAUSE indicator light glows yellow The printer has been paused.
● ■ ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	<ul> <li>The STATUS indicator light glows red</li> <li>The SUPPLIES indicator light glows red</li> <li>Media exhausted. The printer needs to be checked, and without user intervention, it will not be able to continue working.</li> </ul>
● III III III III III IIII IIII IIII I	<ul> <li>The STATUS indicator light glows red</li> <li>The SUPPLIES indicator light flashes red</li> <li>Carbon out. The printer needs to be checked, and without user intervention, it will not be able to continue working.</li> </ul>
	<ul> <li>The STATUS indicator light glows yellow</li> <li>The SUPPLIES indicator light flashes yellow</li> <li>The printer is in "thermal" mode, which does not require the use of carbon; However, the carbon is already installed in the printer.</li> </ul>
● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	<ul> <li>The STATUS indicator light glows red</li> <li>The PAUSE indicator light glows yellow</li> <li>Print head open. The printer needs to be checked, and without user intervention, it will not be able to continue working.</li> </ul>
STATUS PAUSE DATA SUPPLIES NETWORK     (秋志) (暂停) (政盛) (発祉) (同雄)	• The STATUS indicator light glows yellow. Print head overtemperature. The temperature of the print head is very high, which may cause serious burns. Allow the print head to cool sufficiently.
STATUS PAUSE DATA SUPPLIES NETWORK (状态)(暂停)(数据)(耗材)(网络)	<ul> <li>The STATUS indicator light flashes yellow</li> <li>The flashing indicator light indicates one of the following states:</li> <li>a. The print head temperature is too low.</li> <li>b. The temperature of the power component is too high.</li> <li>c. The temperature of the main logic circuit board is too high.</li> </ul>
● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	<ul> <li>The STATUS indicator light glows red</li> <li>The PAUSE indicator light glows red</li> <li>The DATA indicator light glows red</li> <li>When replacing the print head, the original Hanin "iDPRT" print head was not used. Install the original Hanin "iDPRT" print head to continue the operation.</li> </ul>

#### iK4R User Manual

	The STATUS indicator light flashes in red
STATOS PAUSE DATA SUPPLIES NETWORK (秋窓) (著停) (我謂) (荊村) (門條)	The printer is unable to read the dpi settings of the print head.
	The NETWORK indicator light is off
STATUS PAUSE DATA SUPPLIES NETWORK (状态) (暂停) (数据) (书材) (而绕)	There is no available Ethernet connection.
11 DA .d. +	The NETWORK indicator light glows green
STATUS PAUSE DATA SUPPLIES NETWORK (话志)(賢仲)(我語)(柘材) (网络)	The 100 Base-T network is connected.
10 II 00 de 🔽	The NETWORK indicator light glows yellow
STATUS PAUSE DATA SUPPLIES NETWORK (状态) (暂停) (数据) (耗材) (网络)	The 10 Base-T network is connected.
A 11 04 da 💄	The NETWORK indicator light glows red
STATUS PAUSE DATA SUPPLIES NETWORK (状态) (背徑) (政盟) (耗材) (网络)	An Ethernet error occurred. The printer is not connected to the network.
STATUS PAUSE DATA SUPPLIES NETWORK (状态) (解件) (投票) (移材) (网络)	The NETWORK indicator light is off
• II 🖻 🐟 💥	Radio signal detected during power up. The printer attempted to
STATUS PAUSE DATA SUPPLIES NETWORK (状态) (暂停)(获得)(耗材) (网络)	associate with the network. When the printer is associated with a network, the indicator light flashes red. When the printer performs network authentication, the indicator light flashes yellow.
STATUS PAUSE DATA SUPPLIES NETWORK (状态) (著作) (我認) (耗材) (発経)	
A 11 00 00 4	The NETWORK indicator light glows green
STATUS PAUSE DATA SUPPLIES NETWORK (秋石) (新伊) (龍語) (和村) (州府)	The wireless signal has been associated with your network and verified, and the WLAN signal is strong.
NIC NIC	The NETWORK indicator light flashes green
STATUS PAUSE DATA SUPPLIES NETWORK (状态) (新存) (鼓旗) (私材) (两格)	The wireless signal has been associated with your network and verified, but the signal from the WLAN is weak.
(a) 11 (b) A.	The NETWORK indicator light glows red
STATUS PAUSE DATA SUPPLIES NETWORK (状态) (暂停) (致湿) (料材) (月格)	There is a WLAN error. The printer is not connected to the network.

## **3.5 Display Operation Procedure**

#### ▲Note: The user can confirm the status of the printer via the display.

It is divided into ready display, home menu display, sub-menu displays and operating displays.

1. Make sure that the printer is connected and the roll is installed correctly.

2. Turn on the printer power. After the printer is turned on, the display screen will display the Homepage interface. Under the homepage interface, users can obtain information about the printer name, menu, and firmware version. You can rotate the printer's image 360 degrees to view it from various angles.



The following options are located on the Printer Status tab of the homepage interface:

- Menu You can change printer settings.
- Favorite Touch the dark star icon next to the menu item to save it to the favorites list. The options

in "Favorites" are displayed in the order of saving.

• **Recently Used** — Automatically save the 5 most recently used menu options.





(1) Under the printer homepage interface, tap "Menu" to enter the system settings.

To enter print settings, select **Print Quality**, and then select the corresponding parameters to set. For example, selecting **Print Speed**, click - or+or drag the slider to adjust the printing speed (reducing the printing speed usually results in higher printing quality). The same applies to other settings.





(2) Under the printer homepage interface, tap "Favorite" to view the favorite list.



(3) Under the printer homepage interface, tap "Recently Used" to view the recently used menu items.

10 : 58 am Homopoge		
Recently Used		
Print: Format		
Deleter U Dels file		
Delets: Pretter file		
Copy. U Disk file to Printer		
Copy: Printer file to U Dok		
Mena Favorité Recently Used		

▲ Note: For more information about the display menu, please refer to the appendix. The above diagram is for reference only, and the display screen interface is subject to physical machine operation.

## **3.6 RFID Settings**

Select "Menu "-> "RFID" for parameter settings:

#### 3.6.1 RFID Label Anntenna

1.Select "RFID Label Anntenna".

2.Select AUTO, Antenna Up, or Antenna Down.

### 3.6.2 RFID Calibration

1.Select "RFID Calibration" ->"Start Calibration".

2. The LCD screen displays (calibration) Detection... and the printer starts calibrating the RFID tag antenna position while also calibrating the antenna power.

3.After successful calibration, the LCD screen displays the return menu settings interface; If calibration fails, the LCD screen will display "RFID Calibration Error", and both the "Ready" and "Error" lights flash simultaneously.

### 3.6.3 Set RFID Reading Power

1.Select 'RFID Read Power'. Values 0-27 3.6.4 Set RFID Write Power

1.Select 'RFID Write Power'. Values 0-27

### 3.6.5 Read RFID Data

1.Select "RFID Data".

2.Enter RFID data reading mode and select EPC or TID.

3.Release the printing module, move the RFID tag, and when the RFID tag antenna is within the readable and writable range of the RFID printer antenna, the printer will read the RFID tag data and display4.Exit RFID reading mode, the printer stops reading RFID tag data.

• To continuously read RFID tag data, after completing step 4, move the tag outward and the printer will automatically read the RFID tag data located at the readable position of the RFID antenna, and di

• The data read by the printer is displayed in hexadecimal format.

## 3.6.6 Set RFID Encode Position

1.Select 'RFID Encode Position', valid value 0~255 (unit: mm)

# **Chapter 4 Interface**

## 4.1 USB Interface

USB (Type B)



PIN	SIGNAL NAME
1	VBUS
2	D-
3	D+
4	GND

USB Host



## 4.2 Other Optional Interfaces

## Serial Port



PIN	SIGNAL NAME	SIGNAL
		DIRECTION
1	_	NO CONTACT
2	TXD	OUTPUT
3	RXD	INPUT
4	-	NO CONTACT
5	GND	GROUNDING
6	RTS	OUTPUT
7	CTS	INPUT
8	RTS	OUTPUT
9	-	NO CONTACT

## Ethernet Port



PIN	SIGNAL NAME
1	TX+
2	TX-
3	RX+
4	-
5	-
6	RX-
7	-
8	-
#### Parallel Port



PIN	SIGNAL NAME	PIN	SIGNAL NAME
1	/IEEE1284_STROBE#	19	GND
2	IEEE1284_D0#	20	
3	IEEE1284_D1#	21	
4	IEEE1284_D2#	22	
5	IEEE1284_D3#	23	
6	IEEE1284_D4#	24	
7	IEEE1284_D5#	25	
8	IEEE1284_D6#	26	
9	IEEE1284_D7#	27	
10	/IEEE1284_ACK#	28	
11	IEEE1284_BUSY#	29	
12	IEEE1284_PaperEnd#	30	
13	IEEE1284_Select#	31	/IEEE1284_INIT#
14	/IEEE1284_nAutoFeed#	32	/IEEE1284_ERROR#
15	NC	33	GND
16	GND	34	NC
17	GND	35	NC
18	N/A	36	/IEEE1284_SELECT IN#

#### ■ GPIO Port



PIN	SIGNAL NAME	SIGNAL TYPE	Definition
1	Media Out	Output	Paper out status is an effective low-level signal
2	GND	Power	Main board system ground
3	Ribbon Out	Output	Ribbon out status is an effective low-level signal
4	Service	Output	Effective low-level signal:
	Required		Print head open
			Ribbon out or paper out
			Printing paused
5	Start Print	Input	Pulse mode - converts from high level to low level, and the
			label starts printing. The signal is invalid, and it is prohibited
			to print new labels during high voltage periods.
			Level mode - starts label printing when the signal is a valid
			low level, completes printing and stops when the signal is
			an invalid high level, and waits for input of a valid low level.
6	Data Ready	Output	• The data reception is completed and the next label is
			printed as a valid low level
			Invalid high-level signal: After printing the existing label, it is
			in a paused state or the label format is missing.
7	-	To be defined	To be defined
8	-	To be defined	To be defined
9	-	To be defined	To be defined
10	Wait Print	Output	Is there any data that needs to be printed?
			Idle - Low Level
			Data waiting to be printed - high level

iK4R User Manual

PIN	SIGNAL NAME	SIGNAL TYPE	Definition
11	-	To be defined	To be defined
12	24V	Power	The mainboard provides 24V, current limiting 400mA
13	5V	Power	The mainboard provides 5V
14	-	To be defined	To be defined
15	-	To be defined	To be defined

## **Chapter 5 Maintenance & Adjustment**

Adhesives and coatings of the media can transfer to the printer parts over time along the media path including the thermal print head and media sensor. This build-up can accumulate dust and debris. Failure to clean the print head, media path, and media sensor could result in inadvertent loss of labels, label jams and possible damage to the printer.



- Make sure to turn off the printer prior to cleaning.
- As the print head gets hot during printing, if intending to clean the print head, turn the printer off and wait approximately 2~3 minute before commencement.
- When cleaning the print head, take care not to touch the heated portion of the print head. Print Head is susceptible to damage from static electricity, etc. It is strongly recommended to wear hand gloves during cleaning progress.
- Take care not to allow the print head become scratched and/or damaged in any way.

#### 5.1 Cleaning Thermal Print Head

Thermal Paper stock on the print head, which degrades print quality. Clean the print head with methanol or isopropyl alcohol and a cotton bud. Do not touch the heating elements with your fingers.

- 1) Open the Printer Cover and then use the cleaning pen to clean the head in the direction from the center of the head to two sides.
- After cleaning the head, do not use the printer until the alcohol used for cleaning evaporates completely (1~2 min) and the printer has completely dried.

3) Perform the cleaning process each time the paper roll is replaced to prevent print quality deterioration.

#### 5.2 Cleaning Roller and/or Paper Path

- 1) Open the printer cover and then remove the paper.
- 2) Remove any dust or foreign substance using dry cloth or cotton swab.
- Soak the cloth or cotton swab in alcohol for medical use and use it to remove adhesive foreign substances or other pollution materials.
- After cleaning the parts, do not use the printer until the alcohol evaporates completely (1~2 min) and the printer has completely dried

**M**Note: Clean the parts when print's quality or label detection degrades.

# **Chapter 6 Printer Utility Tool Instructions**

## 6.1 Installation Preparation

Download application program in CD. E.g.iDPRTUtility.exe

#### 6.2 Usage

Note: The screen may vary slightly by different operating systems and models. The following example is based on the Windows 7 operating system.

1.Install "iDPRTUtility.exe", then open it.

Printer Utility V10.0.53						1000		
Contentions Store	rage Fund	tion Test	> CMD > Command 1 Buetooth   Ether	est Firmw	are System			
Printer: 864 -	Ribbon Mode:				*			
USB (Its Configure USB Pc)	After Printed:							
Printer Information	After Power O	nt	Ĩ.	•				
Version	After TPH Clos	ei						
Serial Number	Protocoli		AUTO*					
K 400023160001	Paper Type:							
	Sensor Select:							
Cutting Counter:	Buzzer Volume	ŧ.			•			
1	Maximum Length:		1		irait			
Mleage:	Tear Offi				-120 = +120 dots			
7.57	Prest Speed:		11 11		• 030			
Get Printer Information	Density:							
Printer Status								
Nomal								
		Get	Lord	Seve				
Get Status	RTC	Setting	7					

#### 2.Click "Settings".

#### (1) Set up the interface needed. (range: USB, COM, LPT, ETH)

Printer Utility V1.0.0.53			C X
Settings Fonts Sto	rage Function Test Co	> CMD     Second Test     System       pmmand Test     Firmware     System	
Printer: #4  Print	Ribbon Mode: After Printed: After Printed: After TPH Close: Protocol: Paper Type: Sensor Select: Buzzer Vokumer: Meximum Length: Tear Off: Print Speed:	<ul> <li>*</li> <li>*</li> <li>*</li> <li>Auto*</li> <li>*</li> <li>*<th></th></li></ul>	
Printer Status Normal	Density:	0 30	
Get Status	Set Get ATC Setting	Lood Save	

Aa		> ≪	
Settings Fonts Sta Interface Printeri #4 •	Common 294 OPL RS-232 Robor Mode:	Command Test Firmware	e System WIFI Seart print variables
Printer Information	After Printed: After Power Oni After TPH Close:	•	
V2.1.3 Serial Number: #400023560001	Protocoli Paper Type: Servor Select:	АЛО* *	
Cutting Counters	Buzzer Volume: Maximum Length:	(	
7.67 m Get Printer Information	Tear Off: Print Speed: Density:	•	-120 = +120 dots tps 0 30
Venter Statue Normal			- 1973-199 - A
Get Status	Set Get	Load Seve	

(2) Click "Get Printer Information", and printer information will show in the above.

Printer Utility V1.0.0.53						100		
Settings Fonts Sto	rage Fund	tion Test	> CMD >	est Firmwa	are System			
Printer: K4 🔹	Ribbon Mode:		0		*			
USB 🔹 to Configure USB Pe	After Printed:				-			
Printer Information	After Fower O	ni:	<u> </u>		•			
Version:	After TPH Clos	45 ·	0	• AUTO* •				
Serial Nembers	Protocal:		AUTO*					
K400023160001	Paper Type:		C.					
	Sensor Select:		1					
Cutting Counter:	Suzzer Volume	ę.	1		2			
1	Maximum Length:			meti				
Neage:	Tear Off:			-120 ~ +120 dots				
7.57 m	Print Speed:		ŝ					
Get Printer Information	Demity:				0.30			
Viviter Statue								
Normal								
	Set.	Get	Loed	Seve				
Get Statue	RTC	Setting	Ť					

(3) Click "Get Status", and printer status will show in the above.

#### (4) Click "Common". In this menu, user can set up the protocol, media sensor, speed, density and so on.

Printer Utility V1.0.0.53						-
Settings Fonts Stor	rage Funct	tion Test C	> CMD > Command T	est Firmwa	are System	
Printer: K4 T	Ribbon Mode:				-	
USB	After Printed:					
Printer Information	After Fower On	t -			•	
Version:	After TPH Close	E	G		•	
Serial Number:	Protocali		AUTO*			
K400023160001	Paper Type:		[	-		
	Sensor Select:		[]			
Cutting Counter:	Suzzer Volume:		1		5	
1	Maximum Length: Tear Off:					
Neage:				-120 ~ +120 dots		
	Print Speed:		6	• 58		
Get Printer Information	Demity:					
Printer Statue						
Normal						
1	Set	Get	Loed	Seve		
Get Status	RTC	Setting	1			

Printer Utility V1.0.0.53		<b>3_</b> (8)(ص)
Settings Fonts Sto	Image     Function Test     Command Test     Firmware     System       Common     Command Test     Firmware     System	m
Printer: (K4 🔻	Baud Rate: 115200 •	and the models :
158 💽 da Candigare USB Po	Data Sita: B	
Printer Information	Parity: Akane •	
Versionu	How Control: XDN/NDFP	
Senal Number: K400023160001 Cutting Counter:	Stop Bits:	
Mieage:		
7.87 m		
Get Printer Soformation		
Printer Status		
Nomal		
	Set Loed Seve	
Get Statue		

(5) Click "RS-232", then set up the baud rate, data bits, parity and flow control.

(6) Click "RS-232", then set up the parameter, or click "Get" to gain the values of Mac address.

Printer Utility V1.0.053					
Settings Fonts Sto	Drage Function Test	> CMD >_ Command Te	st Firmware	System	
Interface	Common   ZPL   DPL   R5-232	Bluetooth Ethem	et Ethemet_JPv6 WIFI	Smart print variables	
eventer: [P.4 *]	Baud Rate:	115200	•		
USB	Deta Bits:	( · · · · ·	•		
Printer Information	Parity:	None	•		
Varisioni	Flow Control:	KONAXOPP			
Senal Number: ix-000023360001 Cutting Counter:	Stop Bits:	2			
Mieages					
7.87					
Get Printer Information					
Printer Status					
Normall					
	Set Get	Load	Save		
Get Status	RTC Setting	]			

Aa Settings Fonts St	orage Function Test	Com	> CMD >	Test	Firm	a La nware System	
nterface Printer: 804 •	Common   2PL   DPL   RS-2	32   Bueto	oth   Ea	ener li	Ethernet_		
usa	Uniter:	CMRC C	1.0	i in			
winter fuficienties	ar Address:	(V)		- M			
ensioni	Subnet Mask:	Ψ.	0	10	9		
(2.1.3	Default Gateway:	(Q.	0	0	9	Arrest Arrest	
Cutting Counters							
l Neages							
1 Vieage: 7.87 #							
1 Nieage: 7.87 m Get Printer Information							
I viteoge: 7.87 m Get Printer Information							
1 Mieage: 7.87 m Get Printer Information Vinter Status Normal	Set Get	u	bad		ieve:		

(7)Click "Ethernet", then click "Get" to gain the relevant values.

Printer Utility V1.0.0.53		
Settings Fonts Sto Interface Printer: #04 • USB • Into Configure USB Pc Printer Information	rage Function Test Cor Common 2PL DPL RS-232 Blue SSID: K Password: 12 Work Mode: A	nmand Test Firmware System tooth Ethemet Ethemet JPv6 WIFI Sovert print variables
Version: V2.1.3 Serial Number: #400023360001 Cutting Counter:	DHCP1 OF 1P Address: Subnet Mask: Defsult Gateway: Mac address:	
Mieoge: 2.82 m Get Printer Information Printer Status Normali		
Get Status	Set Get	Load Save

(8)Click "WIFI", then set up the name, password and so on.

(9)Click "RTC Setting". Click "Get System DateTime" to get the values, and click "Setup" to save them. Then click "Close", and back to the main menu.

lear:	2023	
		Get System DateTime
Month:	11	
Date:	6	Get
Hour:	19	Setup
Minute:	24	
Second:	35	Close



- 1) Finishing all the settings, user can click "Set" to save the values changed.
- 2 Click "Get", and user will get the default values.

Printer Uti	lity V1.0.0.53						Olive
<b>₽</b>	Aa Fonts S	torage Fun	ction Test	> CMD >_ Command	Fest Firmware	System	
Interface	1444	Common 291	DPL   85-33	2 Buetooth Ethe	met Ethernet, Pv6 V	VPI Smart print variable	
Printer:	**	\$51D;		K4			
128 -	its Configure UTE Po	Password:		12345678		3	
Printer Infan	nation	Work Mode:		AP			
Version:	-	DHCP;		OFF			
Serial Number		IP Address:					
#C400027336	1001	Subnet Mask:					
		Default Gates	sey:				
Cutting Cour	staric .	Mac address:				4	
1							
Minaget	1						
Get Pre	nter Information						
Printer Statu							
Nomal		0	2				
		Set	Get	Load	Save		
	let Status	83	C Setting				

#### iK4R User Manual

3.Click "Storage" to print image.

Download File		
File Type: Graphics	✓ Magnification: 1.0 ▼	Protocol: ZPL 🔻
File Name:		Download
aphics	Label Form	Auto Label Form
List All Graphics	List All Forms	List Auto Form
Print Selected Graphic	Print Selected Form	Print Auto Form
Delete Selected Graphic	Delete Selected Form	Delete Auto Form
	í	1

(1) Click "File name" to select the image.

File Type:	Graphics	•	Magnification:	1.0	•	Protocol:	ZPL	•
File Name:				20				Download

Note: The file name must be in English or number, and the filename length must be less than 32.

(2) Click "Download".



(3) Select the downloaded graphic, and then click "print selected graphic" to print the picture.

Download F	File			
File Type:	Graphics	•	Magnification: 1.0	▼ Protocol: ZPL ▼
File Name:	C:\Users\test\Deskto	p\1.bmp		Download
Free space	e:97,116,160B;Uses s	pace36,05	52,992B. abel Form	Auto Label Form
1.GRF				
Li	ist All Graphics		List All Forms	List Auto Form
Print	: Selected Graphic		Print Selected Form	Print Auto Form
Delete	e Selected Graphic		Delete Selected Form	Delete Auto Form
Dal			Delete All Forms	Finable Auto Form

(4) You can set a magnification of the graphic as needed.

Download File		-
File Type: Graphics	Magnification: 1.0	Protocol: ZPL 🔻
File Name: C: \Users\test\Desktop	\1.bmp 1.0 1.5 2.0	Download
Free space:97,116,160B;Uses spa	ce36,052, <mark>992B. 3.0</mark>	
Graphics	Label Form	Auto Label Form
11.GRF		
List All Graphics	List All Forms	List Auto Form
Print Selected Graphic	Print Selected Form	Print Auto Form
Delete Selected Graphic	Delete Selected Form	Delete Auto Form
C	i   [	

4.Click "Fonts".

(1) Click "Select Font" to select the vector font you want.

Storage	Fonts File Name	Input test text:(Length<256)
torage		
	2.4	Code Page:
	Delete	Code Page: Unicode (UTF-8 encoding)
	Delete All Fonts	PrintText

(2) Click "Download" (Note: The font file name must be in English or number).

Storage:	Select Font:	
FLASH 👻	C:\Users\Administrator\Desktop\Fonts\Fonts\CYR.ttf	Download
Downloading:	167 KB/733KB.	 
Free space:2,04	8,000B;Uses space24,576B.	



(3) Select the downloaded font file, enter the print content in the text box, and click "Print Text".

torage:	Select Font:					
LASH	C:\Users\test\Desktop\ahr	mbd.ttf				ownload
ee space:	97,062,912B;Uses space36,106,2	40B.	Input test text+()	enath<256)		
Storage	Fonts File Name	_	abc122	congut veso)		
FLASH	AHRONBD.TTF		abciza			
FLASH	COUR.TTF					
			. <u> </u>			
	Delete		Code Page:	Unicode (UTI	F-8 encoding)	•
	Delete All Fonts				Print Text	
	Check Font					

5. Click "Function Test". User can carry the followings such as sensor calibration, pattern print testing and

so on.

Printer Utility V1.0.0.53			X
🌣 Aa		> CMD >_	Q
Interface Printer: K4 •	Media Sensor Calibration	Restore Factory Default	System
Printer Information Version:	Configuration Page	Media Sense Waveform Printing	
V2.1.3 Serial Number: K-00022160001	Pattern Print Testing	Advance Media Sensor Calibration	
Outling Counter:	Cutter Cut Testing	Buzzer Function Testing	
Miesge:	Auto Learn With Paper	Auto Learn Without Paper	
Get Printer Information	SeldMarkLearn	Label Learn	
Printer Status	12		
Nomal			
Get Status			



#### 6. Click "System". Click "language" and choose the language of printer utility.

# **Chapter 7 Seagull Windows Driver Instructions**

#### 7.1 Introduction

The following operating systems are supported:

- Windows 7, Windows 8, and Windows 10.
- Windows Server 2008, and 2012.
- 32-bit and 64-bit (x64) editions.

#### 7.2 Installation Preparation

Download Seagull Windows Driver application program in CD.

### 7.3 Installation



- Under different operating systems, the screen may be slightly different. Take Windows 7 as example.
- To avoid the prevention, recommend to close the security software before installation.

1.Select one interface to connect your printer to computer.

2.Turn on the printer and check if it is connected to computer successfully.

3. Double click Seagull Windows Driver.

4.Read and agree the license agreement. Then click "Next".

License Agreement Please read the following license agreeme	ent carefully.	er
End User License Agre	eement for Printer Drivers	*
by Seagull	Scientific, LLC	
THIS END USER LICENSE AGREEMENT ("AGREE THE APPLICABLE SEAGULL SCIENTIFIC, LLC SU OR "OUR") AND THE CUSTOMER (INDIVIDUAL OTHERWISE PROCURED THE PRINTER DRIVER USE AS AN END USER ("YOU"). BY CHECKING T ALL OR ANY PORTION OF THE PRINTER DRIVER TERMS AND CONDITIONS OF THIS AGREEMEN' WEBSITE AT WWW.SEAGULLSCIENTIFIC.COM	EMENT") IS BETWEEN SEAGULL SCIENTIFIC, LLC OR IBSIDIARY ("SEAGULL SCIENTIFIC" OR "WE", "US" OR ENTITY) THAT HAS DOWNLOADED OR ISOFTWARE PRODUCT (AS DEFINED BELOW) FOR THE ACCEPTANCE BOX OR INSTALLING OR USING R SOFTWARE, YOU ARE ACCEPTING ALL OF THE T AS PUBLISHED ON SEAGULL SCIENTIFIC'S I (AS MAY BE RELOCATED BY SEAGULL SCIENTIFIC	Ŧ
I accent the terms in the license agreem	nent	

5. Choose the installation directory, then click "Next".

Installation	Directory where the driver should be unpacked.	Bar	Tende
The software will be ur either type in the new p	npacked to the directory listed below. T path or click Browse to select a different	o unpack to a d directory.	lifferent directory
nstallation Directory:	C:\Seagull\iDPRT\2023.3 M-0		Browse
	Space required on drive:		97.9 MB
	Space available on selected drive:		1.0 GB
3	< Back	Next >	Cancel

6.Click "Finish".



7. Choose "Install printer drivers", then click "Next".



Note: If you have connected the printer to computer, it will detect and install the driver automatically. (e.g.: USB port)

8.Choose model, then click "Next".

New Plug and Play Printer Detection New Plug and Play printers are a	automatically detected for installation.	
Select the printer driver to install.		
Install a driver for a Plug and P	lay printer	
Printer Model	Port	
iDPRT iK4 (300 dpi)	USB002	
<ul> <li>Install a driver for another prin</li> </ul>	ter	

9.Enter a name for this printer, then click "Next".

Names are us	sed to identify the printer on this computer and on the network.	
Enter a name for	this printer.	22 01 01 0
Printer name:	iDPRT iK4 (300 dpi)	
🔲 l las this sciets	r as the default printer	
use this printe		
<ul> <li>Ose this printe</li> <li>Specify whether of sharing, you must</li> <li>Do not share t</li> </ul>	or not you want to share this printer with other network users. Whe t provide a share name. this printer	en
<ul> <li>Ose this printe</li> <li>Specify whether of sharing, you must</li> <li>Do not share t</li> <li>Share name:</li> </ul>	or not you want to share this printer with other network users. Whet provide a share name. this printer iDPRT_iK4_(300_dpi)	en

#### 10.Click"Finish".

Seagull Driver Wizard		×
	Completin Wizard	g the Seagull Driver
	A new printer will b	pe installed using the following settings:
	Name:	iDPRT iK4 (300 dpi)
	Share name:	<not shared=""></not>
	Port:	USB002
A VIEW AND	Default:	No
	Manufacturer:	IDPRT
	Model:	iDPRT iK4 (300 dpi)
s i	Version:	2023.3.0 (08/25/2023)
	Number of installed	d printers to be upgraded: 0
	To begin the drive	r installation process, click Finish.
	<u></u>	
		< Back Finish Cancel

11.Click "Close", and the driver is installed successfully.

Seagull Driver Wizard		×
	Seagull Driver Wizard Completed Successfully The following operations were completed successfully:	I
	Installed printer 'iDPRT iK4 (300 dpi)'.	*
	4	•
	Install Another Printer Clos	-

12. After installation, the icon will be found in "Start"  $\rightarrow$  "Devices and Printers".





- If you have already installed the driver (No matter what kind of ports), it will generate a USB port automatically when connecting the printer to computer.
- Any problems exist, please use our utility tool in CD.

#### 7.4 Usage

#### 7.4.1 Printing Preferences

1.Click "Start"  $\rightarrow$  "Devices and Printers". Right click icon and choose "Printing preferences".



2. According to different needs, set up the page.

Page Setup	Graphics Stock	Options About	
Stock Name:	USER (4.00 in x 4.0	0 in)	*
	New	Edit	Delete
Preview	Orientation	B	fects Mirror Image
ALE	C Landsc	ape 🗾 180° ape 180°	Negative
Preset Name:	<current settings=""></current>	•	Manage
	2	Adva	nced Options
	@ 2015 2022	Advar	nced Options
	Authors of the B	arTender® label soft	ware.

•Click "Stock"  $\rightarrow$  "Name", and choose the paper type.

	Graphics	Stock	Options	About		
Stock						
Name:	USER (4.0	0 in x 4.0	00 in)			
	USER (4.0 2 x 4 (2.00	0 in x 4.0	00 in) ) in)			
-	4 x 4 (4.00	in x 4.00	) in)			
Preview	4 X 6 (4.00	III X 5.UU	/in)			
2000000		Portrai	t		M	irror Image
ALE	0	) Lands ) Portrai	cape t 180°			egative
		) Lands	cape 180°			
Preset						
Name:	<current s<="" td=""><td>ettings&gt;</td><td></td><td>•</td><td>-) [</td><td>Manage</td></current>	ettings>		•	-) [	Manage
	8					
				Adv	ance	d Options
	© 2(	)15-2023	Seagull S	cientific, Blabel er	LLC.,	-
	Aution	s of the t	Jai Tenuer	- Iduci su	ntwdi	с.

Stock				Preview	
<u>N</u> ame:	New Stock				
Туре:	Die-Cut Labe	els	•		
Label S	bize				
<u>W</u> idth:	4.00 in	Height	4.00 in		
Expose	d Liner Widths				
Left:	0.05 in	<u>Right:</u>	0.05 in		
				=*:	

•Click "New Stock", and set up a new stock.

•Click "Edit Stock", and edit the stock.

Stock				Preview		
Name:	USER					
Type:	Die-Cut Labe	ls	•	R		
.abel Si	ze			ſ		
<u>M</u> idth:	4.00 in	Height	<mark>4.00</mark> in			
Exposed	d Liner Widths					
_eft:	0.05 in	<u>Right:</u>	0.05 in			

•Click "Delete Stock", and delete the stock.



•Choose "Orientation" or "Effects", showed in the "Preview".

	About
USER (4.00 in x 4.00 in)	-
New	dit Delete
Orientation	Effects
Portrait	Mirror Image
Landscape	Negative
Portrait 180°	
Landscape 180°	
<current settings=""></current>	Manage
	Advanced Options
© 2015-2023 Seagull S Authors of the BarTender	cientific, LLC., ® label software
Additions of the barrender	- laber son ware.
	- G - 43. 524 CQ
	USER (4.00 in x 4.00 in)          New       Example         Orientation       Image: Constraint of the settings         Orientation       Image: Constraint of the settings         Constraint of the settings       Image: Constraint of the settings

Stock			
Name:	USER (4.00 in x 4	1.00 in)	
	New	Edit	Delete
Preview	Orientati	on	Effects
	<ul> <li>Portr</li> <li>Land</li> <li>Portr</li> </ul>	ait Iscape ait 180°	Mirror Image
Derest	© Land	scape 180°	
Name:	Current Settings	>	Manage
	<current settings:<="" td=""><td>&gt;</td><td></td></current>	>	
	<pre>Letault Settings;</pre>	2	Advanced Options
	© 2015-202	23 Seagull Scient	ific, LLC.,

•Click "Preset"  $\rightarrow$  "Name", and back to the default settings.

•Click "Manage", and change the settings.

reset List	Preset I	nformation
Current Settings>	N <u>a</u> me:	<current settings=""></current>
Default Settings>	Descrip	tion:
	This procurrent	eset contains this driver's 🔺 settings.
*		-
New	Delete	Update

3. Click "Graphics", and edit the pictures.

-	
Resolution: 300 dpi x 300 dpi	
Dithering	
🔘 None	
<ul> <li>Halftone</li> </ul>	
<ul> <li>Ordered</li> </ul>	
🔿 Algebraic	
🗇 Error Diffusi	on
C Device Dith	lering
Color Adjustment Dithen	ng Setup
Color	
Color Control: Monochrome	•
indification of the second sec	
Color Matching:	*
Color Matching:	

Contrast:	0		E	Illuminant: 1: Device's Default 👻		
Brightness:	0 <		F.	Input RGB Gamma 📃 Linear=1.0		
Color:	0 <		ы			
Tint:	0 🖪		F			
Dark Pi	cture 🕅	Negative	в	I Blue: 1.000 ∢ I Defau		
Black Ref (	0.000 💉 🗌		۲	White Ref: 1.000  Rever		
Picture: A. S	eattle	-	1	160x120, 24 bpp -> 463x347 Open.		
Media Sett	ings					
-----------------	----------	-------------------------	---------------	---	-----------	-----------
Print Metho	od:	Use Current P	rinter Settin	g		•
Media Typ	e:	Use Current P	rinter Settin	g		•
Mode: Pause:	No	Current Printe Pause	r Setting	•	Interval:	After Cut
Pause:	No	Pause		•	Interval;	[
Feed Optio	ns					
Set Top	o Adju	stment:				
Set lea	ar-Off /	Adjustment:		-		

4.Click "Stock", set the media settings, feed mode and feed options.

-		
Media Set	tings	
Print Meth	iod:	Use Current Printer Setting
Media Tvo	be:	Use Current Printer Setting
		Direct Themal Themal Transfer
Feed Mod	e	
Made		
Mode.	Use	
Pause:	No F	Pause 👻 Interval:
Feed Opti	ons	
Set To	p Adjus	stment:
Set Te	ar-Off A	Adjustment:

•Set up the print method (Direct Thermal / Thermal Transfer).

•Set up the media type.

ige Setup	Graphics	Stock	Options	About		
Media Set	tings					
Print Meth	od: Us	e Current	Printer Set	ting		•
Media Typ	e: Us	e Current	Printer Set	tina		-
	Us	e Current	Printer Sett	ing		
	Co	ntinuous n Continu	ous Web	Sensing)		
Feed Mod	e No	n Continu	ous (Mark	Sensing)		
Mode:	Use Cu	rrent Print	ter Setting	•	Pause	After Cut
Pause	No Pau	ise		•	Interval	-
Feed Optio	on <mark>s</mark> p Adjustm	ent:				

Media Typ	be: Use Current Printer Setting	•
Feed Mod	le	
Mode:	Use Current Printer Setting	🔽 📃 Pause After Cu
<sup>o</sup> ause:	Use Current Printer Setting Tear Off Peel Off	Interval:
	Cut	
Feed Opti	ons 	
Set Te	ar-Off Adjustment:	
ed Opti Set To Set Te	p Adjustment:	

•Click "Feed Mode"  $\rightarrow$  "Mode", and choose the method of media handing.

### 7.4.2 Printer Properties

1.Click "Start"  $\rightarrow$  "Devices and Printers". Right click the icon and choose "Printer properties".



Sharing	10022003221				
onuning	Ports	Advanced	Color	Management	Securit
iDPRT	iK4 (300 d	pi)			
:					
IDPRT	iK4 (300 d	20			
IDENT	114 (500 0	pij			
No		Paper a	available	2:	
-sided: No		-			
No					
Unknown					
um resolutio	on: 300 dpi				-
		Preferences		Print Test	Page
	iDPRT iDPRT vo -sided: No No Unknown um resolutio	iDPRT iK4 (300 d iDPRT iK4 (300 d iDPRT iK4 (300 d sided: No No Unknown um resolution: 300 dpi	iDPRT iK4 (300 dpi) iDPRT iK4 (300 dpi) No Paper a -sided: No No Unknown um resolution: 300 dpi	iDPRT iK4 (300 dpi) iDPRT iK4 (300 dpi) No Paper available -sided: No No Unknown um resolution: 300 dpi	iDPRT iK4 (300 dpi) iDPRT iK4 (300 dpi) No Paper available: -sided: No No Unknown um resolution: 300 dpi

2.Click "General"  $\rightarrow$  "Print Test Page", and printer will print labels with current settings.

3.Click "Ports", and choose the port needed.

Font	s		Tools		Abou	Jt
General	Sharing	Ports	Advanced	Color	Management	Security
Print to the f	OPRT iK4	(300 dpi)	ocuments will p	rint to t	he first free	
checked por Port	t. Descrip	otion	Printe	r		*
LPT3:	Printer	Port				
COM1:	Serial P	ort				=
COM2:	Serial P	ort				-
СОМЗ:	Serial P	ort				
COM4:	Serial P	ort				
FILE:	Print to	File				
<b>USB002</b>	Virtual	printer po	rt for iDPRT	iK4 (30	0 dpi)	-
Add F	ort		Delete Port		Configure l	Port
Chable bio	directiona	al support				
	inter poo	ing				

Fonts			Tools		About		
General	Sharing	Ports	Advanced	Color	r Management	Security	
Alway Availa Priority:	s available ble from 1	12:00 A	AM x	To.	12:00 AM	 V	
		According					
Driver: Spool Sta Sta	iDPRT i print docum art printing a art printing in	K4 (300 dp nents so pr fter last pa mmediatel	oj) ogram finishes age is spooled ly	printing	▼ New [	Driver	
Driver: Spool Sta Sta Print c	iDPRT i print docum art printing a art printing in lirectly to the	K4 (300 dp nents so pr fter last pa mmediatel e printer	oi) ogram finishes age is spooled ly	printing	▼ New [	Driver	
Driver: Spool Sta Sta Print of Hold r	iDPRT i print docum art printing a art printing in lirectly to the mismatched	K4 (300 dp nents so pr fter last pa mmediatel e printer document	oi) ogram finishes age is spooled ly ts	printing	▼ New [	Driver	
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Driver: Spool Sta Print o Hold r Print s Keep p	iDPRT i print docum art printing a art printing in lirectly to the mismatched pooled docu	K4 (300 dp nents so pr fter last pa mmediatel e printer document uments firs ments	ogram finishes age is spooled ly ts	printing	← New [	Driver	
Driver: Spool Sta Print c Print s Print s Keep p Enable	iDPRT i print docum art printing a art printing in lirectly to the mismatched pooled docu printed docu	K4 (300 dp nents so pr fter last pa mmediatel e printer document uments firs ments printing fea	oj) ogram finishes age is spooled ly ts ts	printing	✓ New [ g faster	Driver	

4. Click "Advanced" to set the available time for printer.

## **Chapter 8 BarTender UltraLite Instructions**

## 8.1 Introduction

This chapter provides instructions on BarTender UltraLite program according to PC operating systems

(OS).

The followings are supported.

- Windows 10, Windows 8.1, Windows 8, and Windows 7.
- Windows Server 2016, Server 2012 and 2012 R2, Server 2008 and 2008 R2.
- Includes all 32-bit and 64-bit (x64) editions.

## 8.2 Installation Preparation

Download BarTender UltraLite application program in CD.

## 8.3 Installation



- Under different operating systems, the screen may be slightly different. Take Windows 7 as example.
- To avoid the prevention, recommend to close the security software before installation.

1.Double click the application program

2.Select language, then click "OK".

BarTen	der - InstallShield Wizard
	Select the language for the installation from the choices below.
	English (United States)
	OK Cancel

3.Click "Install".



#### 4.Click "Next".

BarTender Setup	
BarTender. 2016	
IDPRT Special Edition BarTender 2016 R3	
Welcome to the BarTender Setup Wizard. This wizard will install BarTender 2016 R3 on your computer.	
< Back Next > Ca	Incel

5.Read and accept the license agreement, then click "Next".

BarTenderSetup			
License Agreement			
Please read the following license agreement carefully.			
End User License Agreement			2
Seagull Scientific ("Seagull") grants you a non-exclusive licen: and related documentation ("Seagull Software"), subject to the responsibility for the selection of the Seagull Software to achie installation, use, and results obtained from the Seagull Software	se to use the acco following provid eve your intended re.	ompanying compu- icens. You assume f results, and for th	ter software stull be
Copyrighted Material: Only the TRIAL EDITION of Seagual's BarTender softwar versions of BarTender are protected under standard copy	n may be copied night law and may	and distributed fre mot be copied.	ely. All other
The license granted by this agreement for all non-Trial sol acting on your behalf (such as employees or contractors) Seaguil Software only for backup purposes. You shall not Software; (2) allow access to the licensed software by time or resell the software, software license, or product key coo	ftware is absolute for your own use t: (1) permit any t esharing; (3) mod de to another enti	dy restricted to yo You may make a hird party to use th ify the software; o ry without the writ	u and those copy of such he Seagull or (4) transfer tten
$\mathbb{Z}[1_{\pm}$ ccept the terms in the license agreement			
			ar account

6.Select "Features" and installation location, then click "Next".

Bar Tender	Setup				
Installa	tion Options				
Features					
🚺 🛛 8	arTender <u>D</u> esigner				
0 🗆 A	I Translations				
🖸 🗹 S	imple Docyments				
Installation F	older				
Install to:	C:\Program Files (x86)\Seaguit\Ba	rTender UltraLite			Brogse
		17.52	Bert		
		4	DSCK .	Hext >	Lance

### 7.Click "Install".

arTender will be installed using the following settings: Installation Folder: C:\Program Files (x86)\Seagull\BarTender UltraLite What to Install: BarTender Sample Documents		

#### 8.Click "Finish".

The installation has completed success	sfu®y.
🐨 Run BarTender	
😨 Create Desktop Shortcut	
V Open Getting Started Manual	
Drivers by Seagult	
Windows printer driven. However Drivers by Seagull <sup>™</sup> for use with B ensures that you get the best poss You can install Drivers by Seagull f www.aeagullscientific.com	or another type or specially printer, it may have come with its own even if it did, we strongly recommend that you instead install our arTender. Using Drivers by Seaguil?", if they are available for your printer, ible printing features and performance when printing from BarTender. from the CD Start menu (if you have a CD) or by downloading them from

9.Back to desktop, and you will see the icon of BarTender UltraLite. Double click it and get down to use.



## 8.4 Usage

### 8.4.1 Page Settings

1.Double click the icon, then choose the edition. Click "OK". (The edition may be changed according to different needs.)

Choose a BarTender Edition	
You are running the UltraLite edition.	
For the first 30 days, you have the option of trying out features from more powerful These features are indicated in the BarTender user interface by "(Trial)" appearing af To continue using these "Trial Features" after the trial period ends, you would need to a more powerful edition. You now have the option of selecting an edition with or with "Trial Features" available. You can change your mind later using the Edition Selection Help menu.	editions. ter them. o upgrade to rout the option in the
What would you like to do?	
Run the Enterprise Automation edition, with Trial Features enabled for 30 days	
Run the Automation edition, with Trial Features enabled for 30 days.	
Run the Professional edition, with Trial Features enabled for 30 days.	
Run the Basic edition, with Trial Features enabled for 30 days.	
Q Run the UltraLite edition only.	
(	ОК

2.Click "Start a new BarTender document".

BarTender				×
Welcome!		3597	)01 A7-110 (	
What wou	ıld you like <mark>to d</mark> o?			
ני	Start a <u>n</u> ew Barl	Fender docum	ent	
	Open <mark>an <u>e</u>xistin</mark> g	g BarTender de	o <mark>cument</mark>	
Don't show	v this dialog again			Close

3. Choose "Blank Template", then click "Next".

New Document Wizard	×
<b>Starting Point</b> Select the starting point for the new document.	
You can start with a blank template, or base your new document on an existing one.	
Starting Point:	
Blank Template	
© Existing BarTender Document	
Select	
	< Back Next > Einish Cancel

4.If the predefined stocks do not meet your need, tick "Specify Custom Settings". Then click "Next".

New Document V	Vizard	×
Stock Selection		
A Stock specifies the position of the items Stock or specify your	size of the page, and the size, number, and on the page. You may select a predefined own custom settings.	
O Use a Predefine	d Stock	
	*	
Stoc <u>k</u> Name:	·	
		< Back Next > Einish Cancel

5.Tick "Single item per page", then click "Next". (If you print multiple labels, tick "Multiple columns and/or rows of items per page".)

e.	7001   A7-1		
e.			
Back	Next >	Einish	Cancel
×	< <u>B</u> ack	< <u>Back</u> <u>N</u> ext >	< <u>Back</u>

6.Edit the side edges, then click "Next".

New Do	cument W	/izard		×
Side Edges Specify t	<b>s</b> he <mark>cha</mark> ract	eristics o	of the sides of your media.	
Does your the edge o	stock have f the item a	a small and the	amount of unused material between edge of the page?	Preview:
● <u>Yes, i</u> ◎ N <u>o</u> , it Width of U	t does have does not nused Area	e some i	inused material on the sides	
<u>L</u> eft:	0.05	in		
<u>R</u> ight:	0.05	in		Template Size: 3.998 x 4 in
				< Back Next > Einish Cancel

7. Choose the item shape, then click "Next".

New Document Wizard	
Printed Item Shape Specify the shape of your items.	
Image: Rectangle         Image: Rectangle	Preview:
	< Back Next > Einish Cancel

8.Edit the template size, then click "Next".

New Docum	ent Wiza	rd				
Template Size Specify the si	ze of you	r <mark>ite</mark> m.				
Template <u>S</u> ize:	User De	fined Siz	e		•	Preview:
<u>W</u> idth:	3.998	in	<u>H</u> eight:	4.0	in	
Note: Do n the item. - Orientation — Portrait Portrait 1 Portrait 1 Landscap - Effects — <u>Mirror Ima</u>	e 80 e 180 age	any of f	the unused are	23	ding	Template Size: 3.998 x 4 in
						< Back Next > Einish Cancel

9.Based on your need, edit the template background. Then click "Next".

New Document Wizard	
Template Background Select a picture or color for your background.	
	Preview:
<ul> <li>Color <ul> <li>Allows you to specify a fill color to use for the background.</li> <li>Picture <ul> <li>Allows you to use a picture for the background.</li> <li>Template Image <ul> <li>Allows you to display a picture of what you want your completed design to look like behind the design area. You can then design on top of that picture, making it easier to position and size objects.</li> </ul> </li> </ul></li></ul></li></ul>	Template Size: 3.998 x 4 in
	< Back Next > Einish Cancel

10. Finish the settings, showed in the "Review" and "Preview". Then click "Finish".

🎦 New Document Wizar	d	×
Finished!		
When you press Finish, a created using the setting Review:	new BarTender document will be s that you specified.	Preview:
Starting Document: Printer:	Blank	
Template Size:	3.998 x 4 in	
		Template Size: 3.998 x 4 in
		$(\underline{Back})$ [Next > ] [Einish] [Cancel]

### 8.4.2 label Edit

1.Click the icon of code

2.Choose the code, then click "Select".



3. Click the blank, showing the code.



4.Double click the code and edit it. User can set up the size, font, border and so on.

Barcode 1 Symbology and Size 173 Human Resdable N Fort Border Position Data Sources 12345678	Simpologia:	Code 128 •			
	Dmensions & Dmensions Density: 14.78 mile 2022 Density: 12.356 chars/in 20 Symbology Specific Options Charle Digt HBBC		(pto: gegint) Cgde Set:	Auto -) 0.5 in te (Auto -)	
	Color:	US, Western Europe (7-8	H ASCII)	• Print M	thed

5.Click the icon of character **A**, then enter the text.



6.Click the icon of picture *icon*, then edit the pictures.



7.Compose the text.



8. Finish all the settings. Click "Print" and a new label will be printed.

# **Appendix I Display Menu**

Main menu	Sul	omenu	Parameter	Remark
	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Languages	• • English	Default:
		Function&Device	Diagnostic mode	<ul><li>Disable</li><li>Enable</li><li>Default: Disable</li></ul>
	1 • 1 1	Set	Time Format	<ul> <li>12 hours</li> <li>24 hours</li> <li>Default: 12 hours</li> </ul>
Menu	Menu SETTING	Set	Password Setting	NNNN Default: 0000
		Set	Display brightness	<ul> <li>1</li> <li>2</li> <li>3</li> <li>4</li> <li>5</li> <li>Default: 5</li> </ul>
		Set	Buzzer volume	<ul> <li>1</li> <li>2</li> <li>3</li> <li>Default: 2</li> </ul>
		Set	Touch prompt tone	<ul><li>Disable</li><li>Enable</li><li>Default: Disable</li></ul>

		Set	Restore Defaults	<ul> <li>Restore Printer: Restore all printer settings except for network settings to factory default values.</li> <li>Restore Network: Reinitialize the wired or wireless print server of the printer.</li> <li>Restore Saved: Load the last permanently saved settings.</li> <li>Default: Restore Printer</li> </ul>
		Set	print: System Configuration	
		Maintain >	Show printer print miles	No blank paper miles
		Printed Mileage	0-99999.99 meters	
		Maintain > Bad Dot Scan	Abnormal scanning test of impedance of print head	Tested, total return bad points
	Maintai Dot Prir Maintai Media S	Maintain > Bad Dot Printing Test	Print test sheet	
		Maintain > Media Sensor	Signal quantitative waveforms detected by print media	Detection according to specified sensor mode
		Maintain > Dump Mode	Print the received data and automatically change lines when the width of the label exceeds	Press feed key back to standby
	Mainta Cuttin Energy	Maintain > Cutting Test	Test the cutter function	Errors will be reported
		Energy-Saving	<ul><li>Disable</li><li>Enable</li></ul>	Default: Disable

	CONNECT	Network	Reset Ethernet	Are you sure to reset the network?
		Network	Main Ethernet	<ul> <li>Wired</li> <li>WLAN</li> <li>Default: Wired</li> </ul>
		Network	IP Port	NNNNN Default: 9100
		Network	IP Alternate Port	NNNNN Default: 9001
		Network	Print: Network Information	
		Wired	Wired IP Protocol	<ul> <li>DHCP</li> <li>STATIC</li> <li>Default: DHCP</li> </ul>
		Wired	Wired IP Address	NNN.NNN.NNN.NNN Default: 0.0.0.0 N 0-9; NNN 0-255
		Wired	Wired Subnet	NNN.NNN.NNN.NNN Default: 0.0.0.0N 0-9;
		Wired	Wired Gateway	NNN.NNN.NNN.NNN Default: 0.0.0.0N 0-9; NNN 0-255
		RS232	Baud Rate	<ul> <li>9600</li> <li>19200</li> <li>38400</li> <li>57600</li> <li>115200</li> </ul>
		RS232	Data Bits	<ul> <li>7-bit</li> <li>8-bit</li> <li>Default: 8-bit</li> </ul>

		RS232	Parity Check	<ul> <li>NONE</li> <li>Odd</li> <li>Even</li> <li>Default: NONE</li> </ul>
		RS232	Flow Control	<ul> <li>NONE</li> <li>XON/XOFF</li> <li>Hardware</li> <li>SW+HW</li> <li>Default: Hardware</li> </ul>
		Order Set	<ul> <li>ZPL</li> <li>EPL</li> <li>DPL</li> <li>TSPL</li> </ul>	Default: ZPL
Menu			Print Darkness	0 ~ 30 ZPL 0 ~ 15 TSPL/DPL/EPL
	PRINT	Print Quality	Print Speed	2 ~ 6 ips 600dpi 3 ~ 12 ips 300dpi 3 ~ 14 ips 200dpi
			Print Type	<ul> <li>Thermal Transfer — Use carbon and thermal transfer media.</li> <li>Thermal — Use thermal sensitive media without using carbon.</li> </ul>
			Label Type	<ul> <li>Gap</li> <li>Black Gap</li> <li>Continious</li> <li>Default: Gap</li> </ul>
			Label Width	203 dpi =0 ~ 104mm 300 dpi = 0 ~ 106mm 600 dpi =0 ~ 106mm

			Label Length	The value cannot be modified
		Operation After Power On• No Operation Paper Fee • Calibratio Default: No Operation • No Operation • Paper Fee • Calibratio Default: No Operation • No Operation • No Operation • No Operation • Paper Fee • Calibratio Default: No Operation • Paper Fee • Calibratio Default: No Operation • No Operation • Paper Fee • Calibratio Default: No Operation • No Operation • No Operation • Paper Fee • Calibration • Transmiss • Reflection • Default: No Operation • Tear-off • Peel off • Cutter • Rewinding Default: Tear-off • Peel off • Cut line Offset • 120 ~ +120 • Yaxis (horizor • 2496 ~ 2496 Yaxis (vertical • 120 ~ 120 • 120	Operation After Power On	<ul> <li>No Operation</li> <li>Paper Feed</li> <li>Calibration</li> </ul>
			Operation After print head Close	<ul> <li>No Operation</li> <li>No Operation</li> <li>Paper Feed</li> <li>Calibration</li> </ul>
			Sensor Type	<ul> <li>Default: No Operation</li> <li>Auto</li> <li>Transmission</li> <li>Reflection</li> <li>Default: Auto</li> </ul>
		Collection Method	<ul> <li>Tear-off</li> <li>Peel off</li> <li>Cutter</li> <li>Rewinding</li> <li>Default: Tear-off</li> </ul>	
		Label Position	Cut line Offset	-120 ~ +120
			Printing Offset	X axis (horizontal) -2496 ~ 2496 Y axis (vertical) -120 ~ 120
			Internal Flash	
		Print Station	External U Disk	
		Labeller	Labeller Switch	<ul><li>Disable</li><li>Enable</li><li>Default: Disable</li></ul>
		File Operate	Copy: Print file to U Disk	
			Copy: U Disk file to	

		Printer	
		Delete: Print file	
		Delete: U Disk file	
		Print: Format	
STORE	Print Information List	Print: Image	
		Print: Font	
		Print: Barcode	
		Print: All	

## **Appendix II Warning**

Display Screen / Indicator Light	Possible Reasons	Display Screen Background Color
print head open	The print head is not fully closed.	
Print head open. Please close print head.	The print head opening sensor is not working properly.	Red
Media Out	Media not loaded or improperly loaded.	
Media out.	The medium sensor is not aligned.	D. J
Please load new meida.	The printer has been set up for non continuous media, but continuous media is loaded.	- Red
Paper Jam		
Media jam, please check media	There is a problem with the media in the media path.	Red
Carbon Out	In thermal transfer mode:	
Carbon Out	No carbon installed	
Carbon out, please load new carbon.		
	Incorrect loading of carbon	Red
	• The carbon sensor did not detect the carbon	
	• The medium obstructs the carbon sensor	
	In "thermal transfer" mode, even if the carbon is properly loaded, the printer may not detect the carbon.	
	If a thermal medium is used, the printer waits to load the carbon because it was mistakenly set for "thermal transfer" mode.	
Loaded Carbon		
Detected carbon under direct thermal mode, please take down carbon	Load the ribbon, but set the printer to thermal mode	Yellow
print head recognition failed Print head is not certified product, replace the print head	When replacing the print head, the	
	original print head was not used.	

Display Screen / Indicator Light	Possible Reasons	Display Screen Background Color
<b>rint head component failure</b> Print head component failure, need to replace print head	The print head component is not working.	Red
Replace print head Replace print head	The print head is nearing its lifespan and should be replaced.	Red
Maintain print head Clean print head	The print head needs to be cleaned.	Yellow
Print head overtemperature Print head overtemperature,	The temperature of the print head may cause serious burns. Allow the sufficiently.	l is very high, which e print head to cool
stop all printing tasks	The print head temperature is too high.	Yellow
Print head thermistor trouble	The print head has a faulty thermistor.	
Print head undertemperature Print head	The print head temperature is close to its minimum operating limit.	Yellow
printing tasks	The print head data cable was not properly connected.	
	The print head has a faulty thermistor.	
Cutter Error	The cutting edge of the knife is very or play with the blade with your fing	sharp. Do not touch ers.
please restart printer	The cutting blade is located in the medium path.	Red
Insufficient memory for storage Not saved, insufficient memory	There is not enough memory to perform the specified function.	Yellow

# Appendix III Download Path for UTILITY and Driver

- 1. Enter the website in browser: <u>http://www.idprt.com</u>
- 2. Select the "DOWNLOAD" to get the Utility and Driver.

