

# AI-6821/AI-6821HD

## **2D Scanner**

# **User Guide**



### **Regulatory Compliance**

### FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-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.

### CAUTION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

### RF exposure warning

The equipment complies with FCC RF exposure limits set forth for an uncontrolled environment.

The equipment must not be co-located or operating in conjunction with any other antenna or transmitter.

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#### **RF EXPOSURE WARNING:**

The equipment complies with FCC RF exposure limits set forth for an uncontrolled environment.

The equipment must not be co-located or operating in conjunction with any other antenna or transmitter.

#### 警告: 電池若未妥善處理, 可能會導致爆炸。

請勿拆卸電池, 或用火銷毀電池。 請將電池放置於兒童拿 不到的地方。 請使用專用充電器充電, 並請依照當地政府 或法律規定妥善處理廢棄電池。

#### CAUTION: EXPLOSION HAZARD

Do not disassemble, short circuit, heat the battery or dispose of in fire. Store battery pack in a proper place. Do not expose to temperature above 60°C/140°F. Use specified charger only. Please dispose of the used batteries following the rules or laws issued by the local government.



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**Note** Specification is subject to changes without notice.

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# **1** Introduction

AI-6821/AI-6821HD is a 2D cordless scanner that can read bar codes on objects or on screens. The high performance scanning engine delivers high speed and high readability, making it an ideal scanning solution for business.

- High decoding performance Fast and easy scan for 1D and 2D bar codes.
- Water resistant and dust-tight With the IP65 rating, your scanner can be used in various environment without being damaged by water and dust.
- High optical resolution Your scanner reads high density bar codes up to 3 mil.
- Distortion processing Even if your bar code is distorted, AI-6821/AI-6821HD still recognizes it.

# 1.1 Unpacking

Make sure all following items are included in your package.



#### **Power Supply**



- For USB packs, it is optional.
- For RS-232 packs, it is standard.

When you receive your scanner, open the package immediately and inspect for shipping damage. If you discover any damage, contact the shipping company and file a claim. Argox is not responsible for any damage incurred during shipping. Save all package materials for the shipping company to inspect.



**Note** If any item is missing, please contact your local dealer.

### **1.2 Understand your scanner**

### 1.2.1 Scanner

#### Perspective



### 1.2.2 Cradle

#### Perspective



Bottom



## **1.3 Indicators**

### 1.3.1 Status lights

Status lights (LED) are helpful for checking your scanner's status. Both your scanner and cradle have LEDs, and each of them have four colors: blue, green, red and amber. The table below shows the LED behavior and the status it indicates.

Status	Scanner LED	Cradle LED
Scanner Connected	Flash <b>blue</b> at 1- second intervals	Flash <b>blue</b> at 1- second intervals
Scanner Disconnected	Off	Off
Good Scan	Flash <b>green</b> once	Flash <b>green</b> once
Cradle ACK Timeout	Flash <b>red</b> every 0.5 second until timeout	N/A
Firmware Update	Flash <mark>amber</mark> fast	Flash <b>green</b> fast
Cradle Inquiry	N/A	Flash <mark>amber</mark> slowly
Cradle Inquiry and Charging	N/A	Flash amber, green and red slowly
Charging	Solid <mark>red</mark>	Flash <b>green</b> every second
Battery Full	Off	Solid green

### 1.3.2 Status sound

In addition to status lights, your scanner and your cradle make sounds to indicate the status it is in.

Status	Scanner Sound	Cradle Sound
Scanner Connected	Sound 1	N/A
Scanner Disconnected	Sound 2	N/A
Good Scan	A short beep	N/A
Cradle Inquiry	N/A	Beeps five times at 1- second intervals
Cradle ACK Timeout	Beeps once in low tone	A short beep
Battery Low	Three short beeps (fast)	N/A
Memory Full	Sound 3	N/A
Programming	Two short beeps	N/A
Interface Ready	N/A	Sound 4
Power On	A long beep	A long beep
Reset	N/A	Sound 5

### 1.3.3 Vibration

Your scanner vibrates in certain status.

Status	Scanner
Power On	Vibrate
Wake up from Sleep Mode	Vibrate

#### Status

Good Scan

#### Scanner

Vibrate

# 2 Get started

This chapter provides information about how to install, connect and use your scanner to do your work, and how to charge and replace your battery.

## 2.1 Installation

This section describes how to set up your scanner.

### 2.1.1 Set up your scanner



 Connect the USB or the RS-232 cable to your cradle. Lay the cable into the notch on the cradle edge. 2. Connect the USB or the RS-232 cable to your computer.

**Note 1** If you've purchased the USB pack, you can charge your scanner by connecting the USB cable to your computer. You can also charge it by connecting a power supply (optional) to your USB cable. The charging time is shorter with a power supply.

**Note 2** If you've purchased the RS-232 pack, connect the power supply to the RS-232 cable and the wall outlet.

Charging by	Full Charge Time
Power Supply	4.5 hours
USB Cable	6.5 hours

- Place your scanner on your cradle to charge it to full (cradle's LED glows green).
- Scan the Data Matrix code at the bottom of your cradle to establish the connection between your scanner and cradle.
- To test your scanner, start a text processing program like Notepad or Word. Scan a bar code and see if the data can be sent to your computer. If it's successful, you'll hear a beep and the bar code data shows in the program.

### 2.1.2 How to scan

AI-6821/AI-6821HD emits a cross pattern when it is scanning. Any bar code in the range of the cross could be read. Typically, the bar code closest to the center will be read first, but if the quality of this bar code is poor, your scanner might read other bar code first.



If you want to scan a bar code in a small area that contains multiple bar codes, it would be better to cover other bar codes in the range of the cross, in case your scanner scans the bar code you don't need.



### 2.1.3 Work with the ASCII table

Sometimes, you might need to send some control characters that can't be typed, or enter characters without a keyboard. You can do it using ASCII codes.

In Appendix B, you'll find the ASCII table. Both column and row numbers are hexadecimal. The ASCII code of a character is the combination of a column and a row number, where the column comes first. For example, the ASCII code of BEL is "07" and the number sign (#) is "23." You can use the bar codes in Appendix D to scan ASCII codes.

### 2.1.4 Search your scanner

Sometimes you might leave your scanner somewhere and can't find it. In this case, press and hold the **RESET** button at the bottom of your cradle, until you receive a long beep from your scanner, and you can locate it by the beep sound.

## 2.2 Battery

AI-6821/AI-6821HD contains a lithium-ion battery that is partially charged at the factory. You might want to charge it to full before your use it. The battery life varies depending on usage.

### 2.2.1 Charge the battery

You can charge the battery by connecting the USB cable to your computer, or by using a power supply, which charges the battery faster. When your scanner is fully charged, your cradle's LED turns to green.

Charging by	Full Charge Time
Power Supply	4.5 hours
USB Cable	6.5 hours



**Caution** Keep the charging pins dry when you put your scanner on your cradle to charge the battery. Wet charging pins may cause water seeping into your cradle and shortening its life.

### 2.2.2 Replace the battery

The battery's life is consumed as you use and charge it. You need to replace the battery when it wears out.

1. Loosen the screw at the bottom of your scanner.



2. Remove the battery cap.



3. Pinch the tape at the top of the battery and pull the battery out.



 Insert the new battery into your scanner in the direction of the arrow printed on the battery.



 Put the battery cap back to your scanner. Make sure the angle of cap is the same as below.



6. Tighten the screw to secure the cap.



## 2.3 Connection

Your scanner can connect to three types of devices: your cradle, a Bluetooth adapter or a mobile device.

### 2.3.1 Connect to your cradle again

If your scanner has connected to other device, and you want it to connect to your cradle again, do this:

1. Scan the following bar code.

Option	Description	Bar Code
SPP/COM	Connect your scanner back to your cradle.	

2. Scan the Data Matrix code at the bottom of your cradle.

### 2.3.2 Connect to a Bluetooth adapter

If your computer has a Bluetooth adapter, you can connect your scanner to your computer without a cradle.

To connect your scanner to a Bluetooth adapter:

#### 1. Scan the **PC/Android** bar code.



2. Click the Bluetooth icon in the notification area.

**Note** Your computer needs to be Bluetooth-enabled.



 In the Bluetooth Devices dialog box, click Add.



 In the Add Bluetooth Device Wizard dialog box, select the My device is set up and ready to be found check box, and click Next.



 If it detects your scanner, it shows "AI6821:XXXXXXXX" (X is your scanner's serial number) in the list. Click your scanner, and click Next.



 Click Let me choose my own passkey. The default key is your scanner's serial number (at the bottom of your cradle). After entering the key, click Next.

Add Bluetooth Device Wizard				
Do you need a passkey to add your device?	*			
To answer this question, refer to the "Bluetooth" section of the documentation that came with your device. If the documentation specifies a passkey, use that one.				
O Choose a passkey for me				
$\bigcirc$ Use the passkey found in the documentation:				
⊙ Let me choose my own passkey:	11111111			
O Don't use a passkey				
You should always use a <u>passkey</u> , unless your device does not support one. We recommend using a passkey that is 8 to 16 digits long. The longer the passkey, the more secure it will be.				
< <u>₿</u> ack <u>N</u> ext> Cancel				

 The computer will try to connect to your scanner. If it succeeds, you'll see the successful message. Click Finish.



### 2.3.3 Connect to a mobile device

AI-6821/AI-6821HD is able to connect to an iOS or Android device that you can use to process bar codes.

#### Connect to an iOS device

You can connect your scanner to an iOS device, such as iPhone, iPad or iPod touch. The setup screen may vary depending on your device. In this section, we use an iPhone as an example.

1. Scan the MAC/HID bar code.



2. On your iPhone, Go to Settings > Bluetooth. Turn on Bluetooth. and your iPhone searches other Bluetooth devices automatically. If it detects your scanner, it shows "AI6821:XXXXXXXX X" (X is your scanner's serial number) under **DEVICES**. Tap your scanner to connect



it.

 When it connects successfully, the status of your scanner is changed to Connected.



 Tap Notes to open a new note. Use your scanner to scan bar codes and the data shows in the note.



### **Connect to an Android device**

You can connect your scanner to an Android device, such as a smartphone or tablet. The setup screen may vary depending on your device. In this section, we use a smartphone as an example.

1. Scan the **PC/Android** bar code.

Option	Description	Bar Code
PC/Android	Connect to a PC or an Android device.	

 On your Android smartphone, go to the Bluetooth setting screen. Turn on Bluetooth.



 Tap Scan to search Bluetooth devices. If it detects your scanner, it shows "AI6821:XXXXXXXX X" (X is your scanner's serial number) in the list. Tap your scanner to connect it.



 When it connects successfully, your scanner is shown under Paired devices.



 Tap a memo App to open a new memo. Use your scanner to scan bar codes and the data shows in the memo.

🖬 🧟 🕼 🚯 🔹 🕸 🕼 🗐 📓	0:14
Kan S Memo Car	
(EAN-13)4710177081318 (Code 128)81131454 (Bookland)735648719 (Code 128)191235076 (Code 128)50630297 (Code 128)0425301 (Code 128)T00852232	
C+ A 9	Q

# 3 Controls and settings

Customize your scanner to work efficiently. AI-6821/AI-6821HD offers many features to match your preferences. This chapter provides information about how to change controls and settings of your scanner.



**Important** Settings marked as "cradle only" are only configurable when your scanner connects to your cradle.

## 3.1 Data transmission

You might want to display additional information in bar codes for your system, so you can track your products or spot problems. This section describes how to manage the data transmission of your bar code.

### 3.1.1 Character length

It shows the number of the character length at the beginning of a bar code. For example, if your bar code is "Argox," the result is "0005Argox." The maximum character length of the bar code varies between bar code types. If the number is smaller than 1000, it pads the number with leading zeros.

(*) Default		
Option	Description	Bar Code
	Show the number	
	of the character	K\$230
On	length at the	141
	beginning of a bar	5 CB 620
	code.	
*Off	Turn off this feature.	

### 3.1.2 Name of the bar code type

It shows the name of a bar code type at the beginning of a bar code. For example, if your bar code type is Code 128, and your bar code is "Argox," the result is "(Code 128)Argox."

(\*) Default

 Option
 Description
 Bar Code

 On
 Show the name of a bar code type at the beginning of a bar code.
 Image: Code type at the bar code.

\*Off Turn off this feature.



### 3.1.3 AIM symbology ID

It shows the AIM symbology ID at the beginning of a bar code.
(*) Default		
Option	Description	Bar Code
*Off	Turn off this feature.	
AIM	Show the AIM symbology ID at the beginning of a bar code.	

#### 3.1.4 Acknowledge timeout

When you connect your scanner to your cradle and start to scan bar codes, you might wonder if your cradle receives bar code data. Acknowledge timeout can help you confirm data receipt.

When you turn on this feature, you'll hear two beeps after scanning a bar code. The first beep is a good scan beep, the second beep indicates that your cradle has notified your scanner that data had been acknowledged. Acknowledge timeout determines how long your scanner waits your cradle to notify it.

You can only scan the next bar code *after* data has been acknowledged. If you don't wait the second beep and keep scanning, you'll hear error beeps.

If timeout is set to 0, it is turned off. You can keep scanning without waiting your cradle to acknowledge data, but data might be lost if you scan too fast.

() Delault		
Option	Description	Bar Code
0 sec	Your scanner won't wait your cradle to notify it that data has been acknowledged. Data might be lost if scanning too fast.	
1 sec	Your scanner waits 1 second for your cradle to notify it that data has been acknowledged.	
*2 sec	Your scanner waits 2 seconds for your cradle to notify it that data has been acknowledged.	
3 sec	Your scanner waits 3 seconds for your cradle to notify it that data has been acknowledged.	
4 sec	Your scanner waits 4 seconds for your cradle to notify it that data has been acknowledged.	
5 sec	Your scanner waits 5 seconds for your cradle to notify it that data has been acknowledged.	
6 sec	Your scanner waits 6 seconds for your cradle to notify it that data has	

#### Description

been acknowledged.

#### 3.1.5 Prefix and suffix

You can add a character at the beginning or the end of a bar code. To add a character, do this:

- 1. Scan the prefix or the suffix bar code.
- Scan the hexadecimal bar codes in *Appendix D* to enter the ASCII codes that corresponding to the character you want to add. For more information about ASCII codes, see *Appendix B*.
- 3. Scan the **Save** bar code in *Appendix D*.
- Prefix

Add one character at the beginning of your bar code.

Option	Description	Bar Code
00-FF	Prefix length: one character Default: 0x00	

Suffix 1

Add one character at the end of your bar code.

Option	Description	Bar Code
00-FF	Suffix length: one character Default: 0x0D	

Suffix 2

Add one character at the end of Suffix 1.

Option	Description	Bar Code
00-FF	Suffix length: one character Default: 0x0A	

# 3.2 Volume and vibration

When you use your scanner, you might want to adjust its volume or vibration to adapt to your workplace. This section describes how to use them.

#### 3.2.1 Good scan beep duration

You can decide how long your scanner beeps after it gets a good scan. The duration is from 0.1 to 0.9 second.

(*) Default		
Option	Description	Bar Code
*1	0.1 second (MIN)	

Option	Description	Bar Code
2	0.2 second	
3	0.3 second	
4	0.4 second	
5	0.5 second	
6	0.6 second	
7	0.7 second	
8	0.8 second	
9	0.9 second (MAX)	

# 3.2.2 Inquiry beep (cradle only)

When your cradle doesn't connect to any scanner, it alerts you with beeps. You can decide the frequency of the beep sound.

Oution	Description	Den Cede
Option	Description	Bar Code
	Your cradle won't	KMC/M
Mute	beep when it	Let R
Whate	doesn't connect	Ni zu
	to any scanner.	
	You cradle beeps	
	every 10 seconds	KSVC -
1	when it doesn't	1.4
	connect to any	<b>L M B</b>
	scanner.	
	You cradle beeps	
	every 20 seconds	65373
2	when it doesn't	1.1
	connect to any	Caller D
	scanner.	
	You cradle beeps	
	every 30 seconds	K\$26
3	when it doesn't	
	connect to any	<b>141</b> 14
	scanner.	

Option	Description	Bar Code
4	You cradle beeps every 40 seconds when it doesn't connect to any scanner.	
5	You cradle beeps every 50 seconds when it doesn't connect to any scanner.	
6	You cradle beeps every 60 seconds when it doesn't connect to any scanner.	
7	You cradle beeps every 70 seconds when it doesn't connect to any scanner.	
*8 (continue)	Your cradle continues to beep when it doesn't connect to any scanner.	

#### 3.2.3 Scan volume

You can adjust the beep volume of your scanner.

Option	Description	Bar Code
0	Mute	
1	Level 1 (MIN)	
2	Level 2	
3	Level 3	
4	Level 4	
5	Level 5	
6	Level 6	
*7	Level 7 (MAX)	

# 3.2.4 Vibration

Vibration provides two modes. You can choose one of them or turn off vibration.

#### (\*) Default

Option	Description	Bar Code
0	Turn off vibration.	
1	Vibrate after a scan.	
*2	Vibrate after your cradle acknowledges a scan.	

#### 3.2.5 Power on alert

You can decide whether your scanner beeps when you put a battery into it.

Option	Description	Bar Code
*On	You scanner beeps when you put a battery into it.	
Off	You scanner doesn't beep when you put a battery into it.	

# 3.3 Operating mode

AI-6821/AI-6821HD offers some operating modes that help prevent data loss and extend battery life. This section describes how to use these modes.

## 3.3.1 Handcuff mode

You can decide how long your scanner beeps after it lost Bluetooth connection.

Option	Description	Bar Code
	You scanner	vvvn
*Off	doesn't alert when	1.1
*Off	it lost Bluetooth	
	connection.	
10 sec	You scanner beeps	rran
	for 10 seconds after	
	it lost Bluetooth	142.
	connection.	

Option	Description	Bar Code
20 sec	You scanner beeps for 20 seconds after it lost Bluetooth connection.	
30 sec	You scanner beeps for 30 seconds after it lost Bluetooth connection.	
40 sec	You scanner beeps for 40 seconds after it lost Bluetooth connection.	
50 sec	You scanner beeps for 50 seconds after it lost Bluetooth connection.	
60 sec	You scanner beeps for 60 seconds after it lost Bluetooth connection.	

## 3.3.2 Batch mode

You can decide whether your scanner stores data in its storage when it lost Bluetooth connection. The storage size is 7 KB. If the storage is full, you'll hear an error beep when your scanner tries to store data in it.

Option	Description	Bar Code
	You scanner stores	
	data in its storage	6526
*On	when it lost	
	Bluetooth	1.16
	connection.	
		6239

No data is stored.

# 5 K)

# 3.3.3 Sleep mode

Off

To save battery power, you can put your scanner into sleep if it doesn't work in a certain amount of time. To wake it up, just pull the trigger. Note that your scanner needs 2-3 seconds to wake up, since the engine needs a little time to start.

## Time to sleep (cradle )

(*) Default	t	
Option	Description	Bar Code
*0	Turn off the Sleep mode.	
1	Go to sleep after being idle for 10 minutes.	

Option	Description	Bar Code
3	Go to sleep after being idle for 30 minutes.	
6	Go to sleep after being idle for 60 minutes.	
9	Go to sleep after being idle for 90 minutes.	

#### Time to sleep (mobile device)

(*) Default		
Option	Description	Bar Code
*0	Turn off the Sleep mode.	
1	Go to sleep after being idle for 1 minute.	
5	Go to sleep after being idle for 5 minutes.	

#### **Sleep partial**

You can choose to keep Bluetooth connection while scanner goes to sleep. It can wake the

scanner sooner into work but save lower battery power.

(\*) Default

Option	Description	Bar Code
*Off	Turn off the Bluetooth and 2D engine (default).	
On	Keep Bluetooth connection and turn off 2D engine.	

#### 3.3.4 Auto-sensing mode

It automatically detects and decodes bar codes in your scanner's field of view. You can turn on this mode when you want to decode bar codes without pulling the trigger.

(*) Defaul	t	
Option	Description	Bar Code
On	Auto-sensing mode on.	
*Off	Auto-sensing mode off.	

# 3.4 Interface selection (cradle only)

AI-6821/AI-6821HD supports RS-232, USB HID

and virtual COM. By default, your cradle is able to detect the interface automatically. When it detects USB, it selects HID as your scanner's interface.

(*)	Default
-----	---------

() Deliaute		
Option	Description	Bar Code
1	RS-232	
3	USB HID	
*4	Auto	
5	Virtual COM	

# 3.4.1 HID setting

When you connect your cradle via the USB port, your computer recognizes it as a human interface device (HID), which you use to interact with your computer, like the keyboard or mouse. The following bar codes are HID settings that help you optimize your data input.

## Country (cradle only)

You can use it to change your keyboard

layout, so your scanner can scan bar codes of different languages. This setting is available only when you use USB HID as your interface.

When you set a different country keyboard, the decoder automatically resets and you'll hear the startup sound.

Option	Description	Bar Code
0	USA	
1	Belgium	
2	Denmark	
3	France	
4	Germany	
5	Italy	

Option	Description	Bar Code
6	Portugal	
7	Spain	
8	Sweden	
9	Switzerland	
10	United Kingdom	
11	Latin America	
12	Japan	
13	BiG5	

Option	Description	Bar Code
14	UTF-8	

## Caps Lock (cradle only)

It determines whether the state of the Caps Lock key affects the output of bar codes.

(\*) Default

Option	Description	Bar Code
On	The Caps Lock key affects the output of bar codes.	
*Off	The Caps Lock key doesn't affect the output of bar codes.	

#### Function key (cradle only)

It maps function keys to ASCII codes, so you can scan bar codes in place of the function key input. For example, if you scan the numeric bar code "1" and then "2," your scanner will send the specific character to your computer as though you press F2. The code mapping range is from 01 to 1F. For more information about ASCII codes, see ASCII table in *Appendix B*.

Option	Description	Bar Code
	Simulate the	
	function key input	
	while you scan the	K\$239
*On	bar codes that	Dec.
	correspond to the	P\$ 002
	ASCII code of a	
	function key.	
		K 52455
Off	Turn off function	
011	key simulation.	12:355

#### Alphanumeric keys (cradle only)

There are three key modes for data input. When you scan bar codes, your scanner will send bar code data as though you press keys on a keyboard in the selected mode to enter data.

17082

Option	Description	Bar Code
	Alphanumeric keys	
	are at the center of	PP3P
Alphanumeric	the keyboard,	
Keys	including alphabet	- 23
	keys and the numeric	
	keys above them.	
	The keypad is located	
	to the rightmost of a	PPVR
Numeric	keyboard. You need	lice.
Keypad	to select this mode if	N 666
	your program only	
	accepts numerals.	

Option	Description	Bar Code
Alt+Numeric Keypad	Enter special character by pressing "Alt+number." For example, "Alt+128" is the Euro sign (€). This option is only available on Windows.	

# 3.4.2 RS-232 settings

RS-232 settings provide options that can be used to control data flow.

#### Flow control (cradle only)

Flow control determines how your computer and cradle control their communication.

(\*) Default Option Description Bar Code Your computer and cradle only use TxD and RxD signals for \*None communication. No hardware or software flow control is used. It is hardware flow control. If your scanner is ready to send bar code data to your computer, it sends an RTS signal, and waits to receive a CTS RTS/CTS signal from your computer. If your scanner doesn't receive a CTS. you'll hear an error beep from it. It is software flow control. When your computer is Xon/Xoff unable to receive data, it sends an Xoff signal to

Option	Description	Bar Code
	notify your scanner to	
	stop sending data; it	
	sends an Xon signal when	
	it's ready.	
	You scanner sends data	
	after it received an ACK	vvuv.
ACK/NAK	signal from your	
ACK/NAK	computer, and will resend	8365
	data if it receives an NAK	
	signal.	

#### Response delay (cradle only)

If you use RTS/CTS or ACK/NAK for flow control, you can decide how long your cradle waits your computer to acknowledge the data transmission.

( ) = = = = = =	•	
Option	Description	Bar Code
	Your cradle doesn't	
0	wait your computer	
0	to acknowledge the	- 10 A
	data transmission.	
10	Your cradle waits 1 second.	
*20	2 seconds	

Option	Description	Bar Code
30	3 seconds	9903 2003
40	4 seconds	
50	5 seconds	
60	6 seconds	
70	7 seconds	
80	8 seconds	542) 2435
90	9 seconds	

#### Baud (cradle only)

Baud is the rate of the signal transmitted per second. It ranges between 1200 and 115200. The higher the baud, the faster the speed.

(*) Defaul	t		
Option	Bar Code	Option	Bar Code
1200		2400	
4800		9600	
19200		38400	
57600		*115200	

#### Parity check (cradle only)

A parity bit is added at the end of a string of data bits to check if data is correct.

(*) Default		
Option	Description	Bar Code
7 data bits 1 stop bit parity even	The total number of "ones" in your data plus parity bit is an even number.	
7 data bits 1 stop bit parity odd	The total number of "ones" in your data plus parity bit is an odd number.	
7 data bits 1 stop bit parity none	No parity bit is used.	
7 data bits 2 stop bit parity even	The total number of "ones" in your data plus parity bit is an even number.	
7 data bits 2 stop bit parity odd	The total number of "ones" in your data plus parity bit is an odd number.	
7 data bits 2 stop bit parity none	No parity bit is used.	5475 2015
8 data bits 1 stop bit parity even	The total number of "ones" in your data plus parity bit is an even number.	

Option	Description	Bar Code
8 data bits 1 stop bit parity odd The total number of "ones" in your data plus parity bit is an odd number.		
*8 data bits 1 stop bit parity None	No parity bit is used.	

# 3.5 Update firmware

Updating firmware improves functionalities and performance for your scanner. If you want to update the firmware of AI-6821/AI-6821HD, you need to update your cradle's firmware first. After that, your cradle will reset and try to connect to your scanner. Once they establish the connection, your cradle will update your scanner's firmware.

#### USB connection

To update the firmware of your cradle and scanner, do this:

- 1. Start Scan Utility.
- 2. On the File menu, click New.



 In the NEW dialog box, select AI6821 from the Select Model list, and click OK.



4. In the Scan Utility dialog box, click No.



On the Tool menu, click Download
 Firmware > Download All (Scanner).
 Your cradle will flash green after it enters the firmware update mode.



6. Scan Utility will ask if you want to

upgrade your scanner, click **OK**. In the next dialog box, click **OK**. Then, you need to wait 7 seconds for the system to switch your scanner to the DFU mode.



 In the Change Firmware dialog box, click Ask to get the current firmware version of your cradle.

Change Firmware			
Status Model: File Name: Download Version: Current Version:	A16821 A16821_C-01_04_/ Find C 01.03 Ask	F	J
		Download	Cancel

 Click Find to load the firmware file. The firmware version in this file needs to be different from the current firmware version of your cradle. After loading the file, click Download to update the firmware of your cradle.

С	hange Firmware			
	Status Model: File Name: Download Version: Current Version:	AI6821           AI6821_C-01_04_/           C-01.04         Find           C-01.03         Ask		
l			Download	Cancel

 After the update is completed, click OK. Your cradle will restart and try to connect to your scanner. Once they establish the connection, your cradle will update your scanner's firmware.



#### RS-232 connection

To update the firmware of your cradle and scanner, do this:

- 1. Start Scan Utility.
- 2. On the File menu, click New.



3. In the NEW dialog box, select AI6821 from the Select Model list, and click OK.



4. In the Scan Utility dialog box, click No.



5. On the **Tool** menu, click **Host RS-232** Setup.



 In the Host RS-232 Setup dialog box, select the COM port your scanner is using and click Port Setting.

Host RS232 Setup	×
RS232 Setting	
	Port Setting
OK	Cancel

 In the Port Setting dialog box, in the Baud rate list, select 115200 and click OK.

Port Setting		×
Port :	СОМ1	
Baud rate :	115200 👻	
Data bits :	8 💌	
Parity :	None 💌	
Stop bits:	1 💌	
Flow control :	None 💌	
ОК	Cancel D	efault

 In the Host RS-232 Setup dialog box, click OK.

1	-RS232 Setting		1
	COM1 -	Port Setting	
	ок	Cancel	

On the Tool menu, click Download
 Firmware > Download All (Scanner).

Your cradle will flash green after it enters the firmware update mode.



 In the Change Firmware dialog box, click Ask to get the current firmware version of your cradle.

Change Firmware		
Status Model: File Name: Download Version: Current Version:	AI6821 AI6821_C-01_04_/ Find C-01.03	
		Download Cancel

11. Click Find to load the firmware file. The firmware version in this file needs to be different from the current firmware version of your cradle. After loading the file, click Download to update the firmware of your cradle.

Change Firmware			
Status Model: File Name: Download Version: Current Version:	Al6821 Al6821_C-01_04_/ C-01.04 Find C-01.03 Ask		Ţ
		Download	Cancel

 After the update is completed, click OK. Your cradle will restart and try to connect to your scanner. Once they establish the connection, your cradle will update your scanner's firmware.



#### Auto Update

Every time your cradle connects to your scanner, Auto Update checks the firmware version of your cradle and scanner, and automatically updates your scanner's firmware if its version is different from your cradle's.

(\*) Default

Option	Description	Bar Code
*Off	Turn off auto update.	
On	Update your scanner's firmware if its version is different from your	
	cradle's.	
#### Force Update

Force Update is used to force your scanner to update its firmware. Once you scan the **Force Update** bar code, your scanner immediately downloads the firmware from your cradle, even if its firmware version is the same as your cradle.

Remember, if you use Force Update, Auto Update will be turned off. If you want to use Auto Update again, you need to turn it on.



**Caution** Make sure your cradle is idle and connected to your scanner when you use Force Update, because your cradle does one thing at a time only.

Option	Description	Bar Code
Force Update	Force your scanner to update its firmware	

### Install driver

If you're using the USB cable to connect your scanner and your operating system is Windows XP, the system may ask you to install the driver for AI-6821/AI-6821HD during the firmware updating process. Take the following steps to install it.

 In the Found New Hardware Wizard dialog box, click Install from a list or specific location (Advanced), and click Next.



 Select the Include this location in the search check box, and click Browse. The default path of driver of AI-6821/AI-6821HD is C:\Program Files\Argox\(Your Scan Utility version)\driver\DFU. After setting the path, click Next.

Found New Hardware Wizard
Please choose your search and installation options.
Search for the best driver in these locations.
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppy, CD-ROM)
✓ Include this location in the search:
:\Program Files\Argox\Scan Utility V2.18\driver\DFU 🔽 🛛 🛛 🛛 🛛 🛛 🗤 🖉
◯ Don't search. I will choose the driver to install.
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
< <u>R</u> ack <u>N</u> ext> Cancel

3. The system starts to install the driver. After it is completed, click **Finish**.



# 3.6 Miscellaneous

This section describes settings that give you finer control over your scanner.

### 3.6.1 Status lights control

The status lights glows when you scans a bar code and get acknowledged from your cradle. You can turn off all the lights using this setting, except for the light that indicates a Bluetooth connection is established between your scanner and cradle.

(*) Defaul	t	
Option	Description	Bar Code
*On	The status lights glow according to the operation.	
Off	The status lights don't glow except for Bluetooth connection.	

## 3.6.2 Fill-in light intensity

When you turn on the aiming pattern, you'll notice that the pattern is encompassed by the fill-in light, which helps your scanner see bar codes clearly.

You can adjust the intensity of the fill-in light if you feel it is too bright, but it affects the "sight" of your scanner. The lower the intensity, the harder your scanner sees bar codes.

(\*) Default

Option	Description	Bar Code
02	Low	
05	Medium	
*10	High	

### 3.6.3 PIN code setting

When you connect your scanner to your cradle, you need to scan the Data Matrix code at the bottom of your cradle, or scan **Enter PIN code** and scan eight digits of your cradle's PIN number using bar codes in *Appendix D*.

You can simplify the PIN code to 0000 by scanning **PIN Code:= 0000**.

Option	Description	Bar Code
PIN Code:=0000	The Bluetooth PIN code of your scanner.	

### 3.6.4 Mobile phone mode

It improves reading performance of your scanner with target bar codes displayed on mobile phones and other electronic displays.

(\*) Default

() Deluant		
Option	Description	Bar Code
On	Turn on mobile phone mode.	
*Off	Turn off mobile phone mode.	

### 3.6.5 Disconnection

Scan the following bar code to disconnect your scanner from your cradle.

Option	Description	Bar
		Code
	Disconnect	KK XX W
Disconnection	your scanner	14.4
Disconnection	from your	
	cradle.	

### 3.6.6 Aiming pattern

By default, your scanner projects the aiming

pattern during the scan. You can turn it off.

(*) Default		
Option	Description	Bar Code
*On	Turn on the aiming pattern.	
Off	Turn off the aiming pattern.	

### 3.6.7 Align mode

Decode only the bar codes aligned under the center of the aiming pattern.

(*) Default		
Option	Description	Bar Code
On	Turn on the Align mode.	
*Off	Turn off the Align mode.	

### 3.6.8 Reset your scanner

By resetting your scanner, you can return your scanner to the state it was in when you receive it. This can help you solve some problems caused by settings changed between scans. There are two ways to reset your scanner.

Scan the bar code

Scan the following bar code to reset your scanner.

Option	Description	Bar Code
Reset scanner	Restore your scanner to factory settings.	

Press and hold the RESET button

Press and hold the **RESET** button until you hear the startup sound.

Remember the following when resetting your scanner:

- If your scanner is connected to your cradle, when you scan the Reset scanner bar code or press the RESET button, you reset both of your scanner and cradle.
- If your scanner is *not* connected to your cradle, when you scan the **Reset scanner** bar code, you only reset your scanner; when you press the **RESET** button, you only reset your cradle.

### 3.6.9 Scanner information

It displays your scanner's information on the screen.

AI6821	Model name
Ver: S-01.00	Firmware version
SN: 11111111	Serial number
Pin: 11111118	PIN code
Battery:	Battery status: full,
MEDIUM	medium or low

Scanner's	Display your	- K3
Information	scanner's	Ľ
mormation	information.	5

# 3.7 Data Magic

Data Magic offers 10 commands for you to customize text strings of bar codes. Each command can be specified in a rule. Data Magic allows up to 10 rules to be applied. With the flexibility Data Magic provides, you can define data as you want.

There are two ways to use Data Magic: scanning bar codes, or using Scan Utility. By scanning bar codes, you can quickly change the settings without using a program; by using Scan Utility, you can see the settings at a glance and change them through the easyoperated user interface. Choose the method that meets your need.

## Data Magic commands

IncortE	
InsertF Definition Insert a character or	<ul> <li>Attributes</li> <li>Position: The position you want to insert the character.</li> </ul>
characters from the <u>left</u> of a text string.	<ul> <li>String: The specified group.</li> </ul>
InsertB	
Definition Insert a character or characters from the <u>right</u> of a text string. CutF Definition Remove a character or characters from the <u>left</u> of a text string.	<ul> <li>Attributes</li> <li>Position: The position you want to insert the character.</li> <li>String: The specified group.</li> </ul> Attributes <ul> <li>From: The start position of the text to be removed.</li> <li>To: The end position of the text to be removed.</li> </ul>
CutB	
Definition	Attributes
Remove a character or characters from the <u>right</u> of a text string.	<ul> <li>From: The start position of the text to be removed.</li> <li>To: The end position of the text to be removed.</li> </ul>

КеерҒ		
Definition	Attributes	
Keep a character or characters from the <u>left</u> of a text string.	<ul> <li>From: The start position of the text to be kept.</li> <li>To: The end position of the text to be kept.</li> </ul>	
КеерВ		
Definition	ttributes	
Keep a character or characters from the <u>right</u> of a text string.	<ul> <li>From: The start position of the text to be kept.</li> <li>To: The end position of the text to be kept.</li> </ul>	
FindF		
<b>Definition</b> Remove a certain length of the string from the <u>left</u> .	<ul> <li>Attributes</li> <li>String: The specified group.</li> <li>Include: Remove everything before the specified string.</li> <li>Exclude: Remove the specified string and everything before it.</li> </ul>	
FindB		
<b>Definition</b> Remove a certain length of the string from the <u>right</u> .	<ul> <li>Attributes</li> <li>String: The specified group.</li> <li>Include: Remove everything before the specified string.</li> <li>Exclude: Remove the specified string and everything before it.</li> </ul>	

Replace	
Definition	Attributes
Replace the text in the	<ul> <li>String: The text in the original text string.</li> </ul>
original text string with a different text	<ul> <li>With String: The string that replaces the specific text.</li> </ul>
string.	
Erase	
Definition	Attributes
Remove the specified rule.	None.

Position Range: 0-99 Cut Range: From: 1-99, To: 1-99



### 3.7.1 Bar code scanning

Bar code scanning is a quick way to work with Data Magic. Just scan the bar codes in specific order and you can customize your string in seconds.

To use Data Magic, scan the **On** bar code:

Option	Description	Bar Code
On	Turn on Data Magic.	
*Off	Turn off Data Magic.	

### Data format

Data Magic provides 10 rules for you to set. To set a rule, follow this data format to scan bar codes:

Rule + Command + Attribute 1 +

Attribute 2 + Save

Item	Description		
	The rule number. The lower		
	the number, the higher the		
Rule	priority. The rule with the		
	high priority will be applied		
	first.		
Command	The command you specify		
Command	in the rule.		
Attribute 1	The attribute varies		
Attribute 1	according to the command.		
Attribute 2	The attribute varies		
	according to the command.		

Command	Attribute 1	Attribute 2
InsertF	Position	String
InsertB	Position	String
CutF	From	То
CutB	From	То
KeepF	From	То
КеерВ	From	То
FindF	String	Include or
		Exclude
FindB	String	Include or
		Exclude
Replace	String	With String
Erase	-	-

To set an InsertF rule with the sample data, scan the

following bar codes:



### Bar codes

### Rules

To set a rule, scan one of the following bar codes.

Option	Description	Bar Code
Rule 1	Rule 1	
Rule 2	Rule 2	
Rule 3	Rule 3	
Rule 4	Rule 4	
Rule 5	Rule 5	
Rule 6	Rule 6	
Rule 7	Rule 7	

Option	Description	Bar Code
Rule 8	Rule 8	
Rule 9	Rule 9	
Rule 10	Rule 10	
<ul> <li>Clear rule</li> </ul>	25	
To clear a	rule, scan its bar o	code.
Option	Description	Bar Code
<b>Option</b> Rule 1		Bar Code
		Bar Code
Rule 1	Clear Rule 1	Bar Code

Option	Description	Bar Code
Rule 5	Clear Rule 5	
Rule 6	Clear Rule 6	
Rule 7	Clear Rule 7	
Rule 8	Clear Rule 8	
Rule 9	Clear Rule 9	
Rule 10	Clear Rule 10	
Comma	nds	
The bar codes below are Data Magic commands.		
Option	Description	Bar Code
InsertF	Insert from the <u>left</u> of a string.	

Option	Description	Bar Code
InsertB	Insert from the <u>right</u> of a string.	
CutF	Remove from the <u>left</u> of a string.	
CutB	Remove from the <u>right</u> of a string.	
KeepF	Keep from the <u>left</u> of a string.	
КеерВ	Keep from the <u>right</u> of a string.	
FindF	Remove a certain length of the string from the <u>left</u> .	
FindB	Remove a certain length of the string from the <u>right</u> .	
Replace	Replace the text with a different text string.	

Strings

To set a string:

- 1. Scan a string bar code, such as **String1**.
- 2. Find your characters in the ASCII table, and scan their ASCII codes using bar codes in *Appendix D*. See *Appendix B* for ASCII codes of characters.
- 3. Scan the Save bar code in Appendix D.

Option	Description	Bar Code
String1	Insert String 1.	
String2	Insert String 2.	
String3	Insert String 3.	
String4	Insert String 4.	
String5	Insert String 5.	

Option	Description	Bar Code
String6	Insert String 6.	
String7	Insert String 7.	
String8	Insert String 8.	
String9	Insert String 9.	
String10	Insert String 10.	
<ul> <li>Clear str</li> </ul>	ings	
To clear	a string, scan its bar	code.
Option	Description	Bar Code
String1	Clear String 1.	

String1	Clear String 1.	65 E
String2	Clear String 2.	

Option	Description	Bar Code
String3	Clear String 3.	
String4	Clear String 4.	
String5	Clear String 5.	
String6	Clear String 6.	
String7	Clear String 7.	
String8	Clear String 8.	
String9	Clear String 9.	
String10	Clear String 10.	

#### Option Description

**Bar Code** 

Clear Clear all strings. Strings



#### Info

Display the current Data Magic settings.

Option	Description	Bar Code
Info	Display the current Data Magic settings.	

Clear All 

> Remove all values from Data Magic settings. (except strings)

Option	Description	Bar Code
Clear All	Clear all values. (except strings)	

### Example

Original Text String: ARGOX89121121 Group 1: ARGOX Group 2: argox Group 3: GOX Group 4: Tel:

#### InsertF

Insert Group 4 (Attr 2) into the fifth (Attr 1) position from the left side of the string.

Rule	Command							Savo		
1	InsertF	0	0	0	5	0	0	0	4	Jave

Data: ARGOX89121121

Result: ARGOXTel:89121121

#### InsertB

Insert Group 4 (Attr 2) into the eighth (Attr 1) position from the right of the string.

Rule	Command							Savo		
2	InsertB	0	0	0	8	0	0	0	4	Jave

Data: ARGOX89121121

Result: ARGOXTel:89121121

#### CutF

Remove first 5 characters from the left of the string.

Rule	Command							Savo		
3	CutF	0	0	0	1	0	0	0	5	5476

Data: <u>ARGOX</u>89121121

Result: 89121121

#### CutB

Remove first 8 characters from the right of the string.

Rule	Command							Savo		
4	CutF	0	0	0	1	0	0	0	8	5476

Data: ARGOX<u>89121121</u>

Result: ARGOX

#### KeepF

Keep the characters from (Attr1) to (Attr2) from the left of the string.

Rule		Attribute 1						Save		
5	KeepF	0	0	0	3	0	0	0	8	Jave

Data: AR<u>GOX891</u>21121

Result: GOX891

#### КеерВ

Keep the characters from (Attr1) to (Attr2) from the right of the string.

Rule	Command	At	trib	ute	1	Attribute 2				Save
6	КеерВ	0	0	0	3	0	0	0	8	Jave

Data: ARGOX<u>891211</u>21

Result: 891211

#### FindF

Remove Group 3 (Attr 1) and everything before it from the left of the string. Attribute 2 can be "0000" or "0001."

Rule	Command	At	Attribute 1 Attribute 2				Save	
7	FindF	0	0	0	3	0 0 0 1		Jave

0000: Include

0001: Exclude

Data: <u>ARGOX</u>89121121

Data: AR<u>GOX</u>89121121 Result: GOX89121121

Result: 89121121

#### FindB

Remove Group 3 (Attr 1) and everything before it from the right of the string. Attribute 2 can be "0000" or "0001."

Rule	Command	Attribute 1			At	trib	5010			
8	FindB	0	0	0	3	0	0	0	1	Save
0000: Include				0001: Exclude						
Data: ARGOX <u>89121121</u> Data			Data: AR <u>GOX89121121</u>							
Result:	ARGOX		Result: AR							

#### Replace

In the original string, replace the Group 1 (Attr1) with Group 4 (Attr2).

Rule	Command	Attribute 1			Attribute 2				Savo	
9	Replace	0	0	0	1	0	0	0	4	Jave

Data: <u>ARGOX</u>89121121

Result: Tel:89121121

## 3.7.2 Scan Utility

Scan Utility provides a simple, clear interface that you can easily view and change Data Magic settings, and import or export the settings to your scanner. Currently, Scan Utility uses RS-232 for data transmission. If your scanner is connected using the USB cable, you need to install Virtual COM for Scan Utility for data transmission. For more information about installing Virtual COM, see *Virtual COM*.

To use Data Magic, start Scan Utility and do this:

- 1. On the File menu, click New.
- In the NEW dialog box, select AI6821 from the Select Model list, and click OK.
- 3. In the Scan Utility dialog box, click No.
- 4. On the **Setup** menu, click **Scanner Setup**, and click the **Data Magic** tab.
- In the Data Magic tab, select the Data Magic check box.
- Click one of the rules you want to set. For example, if you want to set **Rule 1**, select its **Enable** check box. In the command list, click the command you want, such as **InsertF**. In the **position** box, type a position number. In the **string** list, click the group you want.

- Repeat the previous step until you set all the rules you need, and click the String tab.
- In the String tab, there are 10 string boxes: Insert G1-G10 chars setting. Each box corresponds to the group you've selected in the string list in the Data Magic tab. Depending on your selection, type the text you want in the specific box. For example, if you've selected Group1, type in the Insert G1 chars setting box. The string box accepts up to 12 single-byte characters. When you're done, click OK.
- On the Tool menu, click Export Config (from Host), and click Export. If the data is exported successfully, you'll hear a long beep.



**Note** The bar codes types available in Data Magic are the same as those you've turned on. For more information about how to turn on bar codes types, see *Chapter 4*.

In the **Data Magic** tab, you'll find 10 rules. Each rule can be set to one of the commands. The table below describes how to use those commands.

aner Setup							
terface Selection   Keyboard	RS-232   Wand emu	ulation   Indication	Transmission   Sc	an mode   Str	ing setting Data M	agic	
I Data Magic Rule 1			Rule 6				
I Enable InsertF ▼	position	1	🔽 Enable	KeepF -	from	4	
	string	Group2 -			to	6	
Rule 2 Enable InsertB	position	1	Rule 7	KeepB -	from	4	
	string	Group2 -			to	6	
Rule 3	from	2	Rule 8	FindF -	string	Group3	•
	to	4			Include/Exclu	Include	•
Rule 4	from	2	Rule 9	FindB •	string	Group3	•
, man loop 1	to	4		1.000	Include/Exclu	Exclude	•
Rule 5 Enable Replace -	string	Group1 -	Rule 10	Erase -	Ignore		
	with string	Group2 -			Ignore		
					QK	Cencel	
Command	Exa	mple					
ncortE	Posi	ition: 1					
nsertF			un 2				
nsertF	Stri	ng: Gro					
nsertF	Strii Gro	ng: Gro up 2: A	rgox	2241	679		
nsertF	Strin Gro Orig	ng: Gro up 2: A ginal Sti	rgox ring: 1				
nsertF	Strin Gro Orig	ng: Gro up 2: A	rgox ring: 1				
	Strin Gro Orig Resi	ng: Gro up 2: A ginal Sti	rgox ring: 1				
	Strin Gro Orig Resi Posi	ng: Gro up 2: A ginal Sti ult: 1 <u>Ar</u> ition: 1	rgox ring: 1 <u>gox</u> 23				
	Strin Gro Orig Resi Posi Strin	ng: Gro up 2: A ginal Str ult: 1 <u>Ar</u> ition: 1 ng: Gro	rgox ring: 1 r <u>gox</u> 23 up 2				
	Strin Gro Orig Resu Posi Strin Gro	ng: Gro up 2: A ginal Str <u>ult: 1Ar</u> ition: 1 ng: Gro up 2: A	rgox ring: 1 r <u>gox</u> 23 up 2 rgox	84567	78		
	Strin Gro Orig Resi Posi Strin Gro Orig	ng: Gro up 2: A ginal Str ult: 1 <u>Ar</u> ition: 1 ng: Gro up 2: A ginal Str	rgox ring: 1 r <u>gox23</u> up 2 rgox ring: 1	2345	78 5678		
	Strin Gro Orig Resi Strin Gro Orig Resi	ng: Gro up 2: A ginal Str ult: <u>1Ar</u> ition: 1 ng: Gro up 2: A ginal Str ult: <u>123</u>	rgox ring: 1 <u>gox</u> 23 up 2 rgox ring: 1 34567 <u>/</u>	2345	78 5678		
nsertB	Strin Gro Orig Resi Strin Gro Orig Resi	ng: Gro up 2: A ginal Str ult: 1 <u>Ar</u> ition: 1 ng: Gro up 2: A ginal Str	rgox ring: 1 <u>gox</u> 23 up 2 rgox ring: 1 34567 <u>/</u>	2345	78 5678		
nsertB	Strin Gro Orig Resi Strin Gro Orig Resi Fror	ng: Gro up 2: A ginal Sti ult: <u>1Ar</u> ition: 1 ng: Gro up 2: A ginal Sti ult: <u>123</u> m: 2	rgox ring: 1 <u>gox</u> 23 up 2 rgox ring: 1 34567 <u>/</u> To: 4	2345 Argo	78 5678 <u>x</u> 8		
nsertB	Strin Gro Orig Resi Strin Gro Orig Resi Fror Orig	ng: Gro up 2: A ginal Str ult: <u>1Ar</u> ition: 1 ng: Gro up 2: A ginal Str ult: <u>123</u>	rgox ring: 1 <u>gox</u> 23 up 2 rgox ring: 1 34567 <u></u> Fo: 4 ring: 1	2345 Argo	78 5678 <u>x</u> 8		
nsertF nsertB CutF	Strin Gro Orig Resi Strin Gro Orig Resi Fror Orig Resi	ng: Gro up 2: A ginal Sti ult: <u>1Ar</u> ition: 1 ng: Gro up 2: A ginal Sti ult: <u>123</u> m: 2 m: 2 ginal Sti ginal Sti	rgox ring: 1 <u>gox23</u> up 2 rgox ring: 1 34567 <u>/</u> To: 4 ring: 1 578	2345 Argo	78 5678 <u>x</u> 8		
nsertB	Strin Gro Orig Resu Strin Gro Orig Resu Fror Orig Resu	ng: Gro up 2: A ginal Str ult: 1 <u>Ar</u> ition: 1 ng: Gro up 2: A ginal Str ult: 123 m: 2 ginal Str ult: 156 m: 2	rgox ring: 1 <u>gox23</u> up 2 rgox ring: 1 34567 <u>0</u> To: 4 ring: 1 578 To: 4	2345 2345 <u>Argo</u> 2345	78 5678 <u>x</u> 8 5678		
nsertB CutF	Strin Gro Orig Resi Strin Gro Orig Resi Fror Orig Resi Crig	ng: Gro up 2: A ginal Sti ult: <u>1Ar</u> ition: 1 ng: Gro up 2: A ginal Sti ult: <u>123</u> m: 2 m: 2 ginal Sti ginal Sti	rgox ring: 1 <u>gox23</u> up 2 rgox ring: 1 34567 <u></u> 70: 4 ring: 1 578 To: 4 ring: 1	2345 2345 <u>Argo</u> 2345	78 5678 <u>x</u> 8 5678		

Command	Example
Replace	String: Group1 With String: Group 2 Group 1: 456 Group 2: Argox Original String: 12345678
	Result: 123 <u>Argox</u> 78
КеерҒ	From: 2 To: 4 Original String: 1 <u>234</u> 5678 Result: 234
КеерВ	From: 2 To: 4 Original String: 1234 <u>567</u> 8 Result: 567
FindF	String: Group 3 Group 3: 45 Original String: 123 <u>45</u> 678 Include/Exclu: Include
	<ul> <li>Result: <u>45</u>678</li> <li>Include/Exclu: Exclude</li> </ul>
FindB	<ul> <li>Result: 678</li> <li>String: Group 3</li> <li>Group 4: 45</li> <li>Original String: 123<u>45</u>678</li> <li>Include/Exclu: Include</li> <li>Result: 123<u>45</u></li> <li>Include/Exclu: Exclude</li> </ul>
	Result: 123
Erase	In Rule 10, In the command list, click <b>Erase</b> , and Rule 10 will be removed. You can also clear the <b>Enable</b> check box to remove the rule.

### Virtual COM

You can configure Virtual COM to transmit data to a computer via a virtual COM port. After installing Virtual COM, your scanner will be assigned a virtual COM port, which you can use to receive or send data.

To configure Virtual COM on Windows XP and set up a virtual COM port in Scan Utility:

- 1. Connect your scanner to your computer.
- Use the bar code in Interface Selection to switch the interface to Virtual COM. If the interface is set successful, you'll hear a long beep, and Found New Hardware Wizard will appear on screen.
- In the Found New Hardware Wizard dialog box, click Install from a list or specific location (Advanced), and click Next.
- Click Search for the best driver in these locations, and select the Include this location in the search check box. Next, click Browse, and find the driver at your installation path of Scan Utility (default is C:\Program Files\Argox\Scan Utility\driver\virtual com), and then click Next.
- 5. After the driver installed, click **Finish**.
- 6. Right-click **My Computer** and click **Properties**.

- 7. Click the Hardware tab, and click Device Manager.
- Click Ports (COM & LPT). Find ARGOX
   Virtual COM and see the port number in the parenthesis.
- 9. Close Device Manager.
- Start Scan Utility. On the File menu, click New. In the Select Model list, click Al6821, and click OK.
- 11. On the **Tool** menu, click **Host RS-232** Setup.
- In the Host RS-232 Setup dialog box, in the RS-232 Setting list, click the port you've seen in step 8, and click Port Setting.
- In the Port Setting dialog box, in the Baud rate list, click 115200, and click OK.



**Note** The installation steps may vary depending on your operating system.

# 4 Bar codes

This chapter provides the bar codes supported by AI-6821/AI-6821HD and their attributes.

# Code 11

#### Length\_min, Length\_max

You can use these two attributes to specify the decoding length of a bar code. There are three modes.

Both are zeros

When both min length and max length are set to 0, the decoding length can be any number of characters.

Max is larger than or equal to min

When the max length is larger than the min length, the decoding length is between the max and the min. When the max is equal to the min, the decoding length is fixed (the number you assign to them).

Min is larger than max

When the min length is larger than the max length, the decoding length is either the min or the max.

#### C11\_checkdigit\_verify

Use an algorithm to calculate a check digit to verify the completeness of the bar code.

#### C11\_checkdigit\_transmit

Append the check digit to the end of a bar code.

Note You need to turn on

C11\_checkdigit\_verify to use this feature.

#### (\*) Default

Attributes	Option	Description	Bar Code
Code11_ enable	On	Turn on Code 11.	
Code11_ enable	*Off	Turn off Code 11.	
C11_length_ min	4	Default: 4	
C11_length_ max	55	Default: 55	
C11_ checkdigit_ verify	On	Turn on C11_checkdi git_verify.	

Attributes	Option	Description	Bar Code
C11_ checkdigit_ verify	*Off	Turn off C11_checkdi git_verify.	
C11_ checkdigit_ transmit	On	Turn on C11_checkdi git_transmit.	
C11_ checkdigit_ transmit	*Off	Turn off C11_checkdi git_transmit.	
## Code 39

### C39\_FullASCII\_conversion

Code 39 Full ASCII is a variant of Code 39. It allows the whole ASCII table (128 characters) to be encoded.

### C39\_length\_min, C39\_length\_max

See the description in Code 11.

#### C39\_checkdigit\_verify

See the description in Code 11.

#### C39\_checkdigit\_transmit

See the description in Code 11.

### Buffer\_C39

It allows your scanner stores multiple Code 39 bar codes in the buffer. When it is turned on, it buffers all Code 39 bar codes having a leading space as a first character for later transmission. The leading space is not buffered. Decoding a Code 39 bar code with no leading space sends all buffered data in a first-in, first-out sequence, plus the "triggering" bar code.

### Tcode39\_enable

Trioptic Code 39 is a variant of Code 39. It consists of six data characters and two dollar signs (\$) as the start and stop character. For example, the data "\$Argox\$" is read as "Argox."

**Note** You can't turn on Trioptic Code 39 and Code 39 Full ASCII simultaneously.

(*) Default			
Attributes	Option	Description	Bar Code
C39_enable	*On	Turn on Code 39.	
C39_enable	Off	Turn off Code 39.	
C39_ FullASCII_ conversion	On	Turn on C39_FullASCII _conversion.	
C39_ FullASCII_ conversion	*Off	Turn off C39_FullASCII _conversion.	
C39_length _min	2	Default: 2	
C39_length _max	55	Default: 55	
C39_ checkdigit_ verify	On	Turn on C39_ checkdigit_ verify.	
C39_ checkdigit_ verify	*Off	Turn off C39_ checkdigit_ verify.	

Attributes	Option	Description	Bar Code
C39_ checkdigit_ transmit	On	Turn on C39_ checkdigit_ transmit.	
C39_ checkdigit_ transmit	*Off	Turn off C39_ checkdigit_ transmit.	
Buffer_C39	On	Turn on Buffer_C39.	
Buffer_C39	*Off	Turn off Buffer_C39.	
Tcode39_ enable	On	Turn on Tcode39_ enable.	
Tcode39_ enable	*Off	Turn off Tcode39_ enable.	

# Italian Pharmacy (Code 32)

### C32\_Prefix

Add the character "A" at the beginning of a Code 32 bar code.

Attributes	Option	Description	Bar Code
Italian_ Pharmacy_ code_enable	On	Turn on Italian Pharmacy.	
Italian_ Pharmacy_ code_enable	*Off	Turn off Italian Pharmacy.	
C32_Prefix	On	Turn on Code 32 prefix.	
C32_Prefix	*Off	Turn off Code 32 prefix.	

# Code 93

### C93\_length\_min, C93\_length\_max

See the description in Code 11.

(*) Default			
Attributes	Option	Description	Bar Code
Code93_ enable	On	Turn on Code 93.	
Code93_ enable	*Off	Turn off Code 93.	
C93_length_ min	4	Default: 4	
C93_length_ max	55	Default: 55	

# **Code 128**

### C128\_length\_min, C128\_length\_max

See the description in Code 11.

(*) Default			
Attributes	Option	Description	Bar Code
Code128_ enable	*On	Turn on Code 128	
Code128_ enable	Off	Turn off Code 128	
C128_length_ min	01-99	Default: 1	
C128_length_ max	01-99	Default: 1	

# **ISBT 128**

### **ISBT Concatenation**

It links two ISBT bar codes.

On

There must be two ISBT bar codes for decoder to decode and concatenate them. The decoder won't decode the single ISBT bar code.

Off

The decoder won't concatenate ISBT bar codes.

### Autodiscriminate

The decoder decodes and concatenates ISBT bar codes immediately. If there is only one ISBT bar code, the decoder needs to decode the bar code a few times to confirm that there is no additional ISBT bar code. You can set the number of decoding times using **ISBT Concatenation Redundancy**.

### **ISBT Concatenation Redundancy**

The number of times that the decoder must decode an ISBT bar code to confirm that there is no additional bar code.

Attributes	Option	Description	Bar Code
ISBT128_ enable	*On	Turn on ISBT 128	
ISBT128_ enable	Off	Turn off ISBT 128	
ISBT Concatenati on	On	Turn on ISBT Concatenat ion	
ISBT Concatenati on	*Off	Turn off ISBT Concatenat ion	
ISBT Concatenati on	Autodisc riminate	Repeat decoding a bar code to confirm there is no additional ISBT bar code.	
ISBT Concatenati on Redundancy	00-99	Default: 10	

## EAN-8

### EAN8\_Extend

Add five leading zeros to a decoded EAN-8 bar code to make it compatible with EAN-13 format.

Attributes	Option	Description	Bar Code
EAN8_ enable	*On	Turn on EAN- 8.	
EAN8_ enable	Off	Turn off EAN- 8.	
EAN8_ Extend	On	Turn on EAN-8 extension.	
EAN8_ Extend	*Off	Turn off EAN-8 extension.	

## **EAN-13**

### Bookland\_ISBN

Bookland\_ISBN has two modes.

ISBN-10

The decoder decodes both 10-digit and 13-digit ISBN format that starts with 978. It also decodes bar codes that start with 979 but won't identify it as an ISBN number.

ISBN-13

The decoder decodes ISBN codes that is 13-digit format and starts with either 978 or 979.

(*) Default	
-------------	--

() Delault			
Attributes	Option	Description	Bar Code
EAN13_ enable	*On	Turn on EAN-13.	
EAN13_ enable	Off	Turn off EAN-13.	
Bookland_ EAN	*On	Turn on Bookland_ EAN.	
Bookland_ EAN	Off	Turn off Bookland_ EAN.	
Bookland_ ISBN	*ISBN-10	Decode ISBN-10 and ISBN-13.	
Bookland_ ISBN	ISBN-13	Decode ISBN-13.	

# UCC-128/EAN-128 (GS1-128)

### UCC\_Coupon\_Extended\_Code

If you turn on this feature, you can decode the following bar codes:

- UPC-A starting with 5
- EAN-13 starting with 99
- UPC-A/GS1-128 coupon codes

You need to turn on UPCA, EAN-13 and UCC-128/EAN-128 to scan all types of coupon codes.

Attributes	Option	Description	Bar Code
UCCEAN128 _enable	*On	Turn on UCC-128/ EAN 128.	
UCCEAN128 _enable	Off	Turn off UCC-128/ EAN 128.	
UCC_ Coupon_ Extended_ Code	On	Turn on UCC coupon extended code.	
UCC_ Coupon_ Extended_ Code	*Off	Turn off UCC coupon extended code.	

## UPC-A

### UPCA\_Preamble

The preamble character consists of a system number and a country code, which represent the type of the product and the country respectively.

Off

No preamble is used.

System Character (<SYSTEM CHARACTER>
<DATA>)

Append the system character at the beginning of a bar code.

 System Character & Country Code (<COUNTRY CODE> <SYSTEM CHARACTER> <DATA>)

Append the country code and the system character at the beginning of a bar code.

### UPCA\_checkdigit\_transmit

See the description in Code 11.

Attributes	Option	Description	Bar Code
UPCA_ enable	*On	Turn on UPC-A.	

Attributes	Option	Description	Bar Code
UPCA_ enable	Off	Turn off UPC-A.	
UPCA_ Preamble	Off	Turn off UPC-A preamble.	
UPCA_ Preamble	*System Character ( <system CHARACTE R&gt; <data>)</data></system 	Show the system character at the beginning of a bar code.	
UPCA_ Preamble	System Character & Country Code (< COUNTRY CODE> <system CHARACTE R&gt; <data>)</data></system 	Show the country code and the system character at the beginning of a bar code.	
UPCA_ checkdigit _transmit	*On	Turn on UPC-A checkdigit_t ransmit.	
UPCA_ checkdigit _transmit	Off	Turn off UPC-A checkdigit_t ransmit.	

## UPC-E

### UPCE\_Preamble

The preamble character consists of a system number and a country code, which represent the type of the product and the country respectively.

Off

No preamble is used.

System Character (<SYSTEM CHARACTER>
<DATA>)

Append the system character at the beginning of a bar code.

 System Character & Country Code (<COUNTRY CODE> <SYSTEM CHARACTER> <DATA>)

Append the country code and the system character at the beginning of a bar code.

### UPCE\_checkdigit\_transmit

See the description in Code 11.

#### **UPC/EAN/JAN Supplementals**

UPC, EAN and JAN might have supplementary bar codes to hold additional information. Supplemental bar codes appear to the right of the primary bar codes and are usually shorter than the primary ones. ■ Ignore UPC/EAN/JAN with Supplementals

The decoder decodes the primary bar code of UPC/EAN/JAN and ignores the supplemental part.

Decode UPC/EAN/JAN with Supplementals

The decoder only decodes the bar code with the supplemental. Bar codes without supplements will be ignored.

Autodiscriminate UPC/EAN/JAN with

Supplementals

The decoder decodes UPC/EAN/JAN bar codes with supplementals immediately. If the bar code doesn't have a supplemental, the decoder needs to decode it a few times to confirm that there is no supplemental. You can set the number of decoding times in UPC/EAN/JAN Supplemental Redundancy.

 Supplemental Mode
Select one of the following modes to decode your bar codes.

### 378/379 Supplemental Mode 978/979 Supplemental Mode

If you select this mode to scan ISBN bar codes, you need to turn on **Bookland\_EAN**, and select an ISBN format using **Bookland\_ISBN**.

### 414/419/434/439 Supplemental Mode 977 Supplemental Mode 491 Supplemental Mode

### **UPC/EAN/JAN Supplemental Redundancy**

The number of times that the decoder must decode a UPC/EAN/JAN bar code to confirm that there is no supplemental. Five or more times is recommended when decoding a combination of UPC/EAN/JAN bar code with or without supplemental.

### **Convert UPC-E to UPC-A**

Convert decoded UPC-E bar code to the UPC-A format before sending data. After conversion, the data is affected by the attributes you select in **UPC-A**.

Attributes	Option	Description	Bar Code
UPCE_ enable	*On	Turn on UPC-E.	
UPCE_ enable	Off	Turn off UPC-E.	
UPCE_ Preamble	Off	Turn off UPCE_Prea mble.	

Attributes	Option	Description	Bar Code
UPCE_ Preamble	*System Character ( <system CHARACTE R&gt; <data>)</data></system 	Show the system character at the beginning of a bar code.	
UPCE_ Preamble	System Character & Country Code ( <country CODE&gt; <system CHARACTE R&gt; <data>)</data></system </country 	Show the country code and the system character at the beginning of a bar code.	
UPCE_ checkdigit_ transmit	*On	Turn on UPCE_chec kdigit_trans mit.	
UPCE_ checkdigit_ transmit	Off	Turn off UPCE_chec kdigit_trans mit.	
UPC/EAN/ JAN Supplemen tal	Ignore UPC/EAN/J AN with Supplemen tals	Ignore the supplement al part.	

Attributes	Option	Description	Bar Code
UPC/EAN/ JAN Supplemen tal	Decode UPC/EAN/J AN Only With Supplemen tals	Decode the bar code only with supplement als.	
UPC/EAN/ JAN Supplemen tal	Autodiscri minate UPC/EAN/J AN Supplemen tals	Repeat decoding a bar code to confirm there is no supplement als.	
UPC/EAN/ JAN Supplemen tal	Smart Supplemen tal Mode	Turn on smart supplement al mode.	
UPC/EAN/ JAN Supplemen tal	378/379 Supplemen tal Mode	Turn on 378/379 supplement al mode.	
UPC/EAN/ JAN Supplemen tal	978/979 Supplemen tal Mode	Turn on 978/979 supplement al mode.	
UPC/EAN/ JAN Supplemen tal	414/419/43 4/439 Supplemen tal Mode	Turn on 414/419/43 4/439 supplement al mode.	

Attributes	Option	Description	Bar Code
UPC/EAN/ JAN Supplemen tal	977 Supplemen tal Mode	Turn on 977 supplement al mode.	
UPC/EAN/ JAN Supplemen tal	491 Supplemen tal Mode	Turn on 491 supplement al mode.	
UPC/EAN/ JAN Supplemen tal Redundanc Y	00-99	Default: 10	
Convert UPC-E to UPC-A	On	Convert UPC-E to UPC-A.	
Convert UPC-E to UPC-A	*Off	Do not convert UPC-E to UPC-A.	

## UPC-E1

### UPCE1\_Preamble

See the description in UPC-E.

#### UPCE1\_checkdigit\_transmit

See the description in Code 11.

#### Convert UPC-E1 to UPCA

Convert decoded UPC-E1 bar code to the UPC-A format before sending data. After conversion, the data is affected by attributes you select in **UPC-A**.

Attributes	Option	Description	Bar Code
UPCE1_ena ble	On	Turn on UPC-E1	
UPCE1_ena ble	*Off	Turn off UPC-E1	
UPCE1_ Preamble	Off	Turn off UPCE1_ Preamble	
	System	Show the	
	Character	system	62396
UPCE1_	( <system< td=""><td>character at</td><td></td></system<>	character at	
Preamble	CHARACT	the	
	ER>	beginning of	
	<data>)</data>	a bar code.	

Attributes	Option	Description	Bar Code
UPCE1_ Preamble	System Character & Country Code ( <count RY CODE&gt; <system CHARACT ER&gt; <data>)</data></system </count 	Show the country code and the system character at the beginning of a bar code.	
UPCE1_ checkdigit_ transmit	*On	Turn on UPCE1_chec kdigit_trans mit	
UPCE1_ checkdigit_ transmit	Off	Turn off checkdigit_t ransmit	
Convert UPC-E1 to UPCA	On	Convert UPC-E1 to UPC-A	
Convert UPC-E1 to UPCA	*Off	Do not convert UPC-E1 to UPC-A.	

# Discrete 2 of 5 (DTF)

### D25\_length\_min, D25\_length\_max

See the description in Code 11.

Attributes	Option	Description	Bar Code
D25_enable	On	Turn on Discrete 2 of 5.	
D25_enable	*Off	Turn off Discrete 2 of 5.	
D25_length_ min	01-99	Default: 1	
D25_length_ max	01-99	Default: 1	

# Interleaved 2 of 5 (I25)

### I25\_length\_min, I25\_length\_max

See the description in Code 11.

### I25\_checkdigit\_verify

See the description in Code 11.

### I25\_checkdigit\_transmit

See the description in Code 11.

### Convert I25 to EAN-13

Convert 14-character Interleaved 2 of 5 bar codes (I25) to the EAN-13 format before sending data. After conversion, the data is affected by attributes you select in **EAN-13**.

To convert the code, you need to turn on I25, and the code must have a leading zero and a valid EAN-13 check digit.

() Delault			
Attributes	Option	Description	Bar Code
l25_enable	On	Turn on Interleaved 2 of 5.	
I25_enable	*Off	Turn off Interleaved 2 of 5.	
I25_length_ min	01-99	Default: 14	

Attributes	Option	Description	Bar Code
l25_length_ max	01-99	Default: 0	
I25_ checkdigit_ verify	On	Turn on I25_checkdigit _verify.	
I25_ checkdigit_ verify	*Off	Turn off I25_checkdigit _verify.	
I25_ checkdigit_ transmit	On	Turn on 125_checkdigit _transmit.	
I25_ checkdigit_ transmit	*Off	Turn off I25_checkdigit _transmit.	
Convert I25 to EAN-13	On	Convert I25 to EAN-13.	
Convert I25 to EAN-13	*Off	Do not convert I25 to EAN-13.	

## MSI

#### MSI\_length\_min, MSI\_length\_max

See the description in Code 11.

#### MSI\_checkdigit\_verify

See the description in Code 11.

#### MSI\_checkdigit\_algorithm

You can choose one of two algorithms to calculate the check digit of a MSI bar code. If you choose MOD 10/MOD 11, the system uses MOD 10 to calculate the check digit and append it to the bar code. The new bar code with the MOD 10 check digit will be calculated again using MOD 11, and then the system appends the MOD 11 check digit to the new bar code. The result of the bar code format is:

<DATA><MOD 10 check digit><MOD 11 check digit>

#### MSI\_checkdigit\_transmit

See the description in Code 11.

Attributes	Option	Description	Bar Code
MSI_enable	On	Turn on MSI.	

Attributes	Option	Description	Bar Code
MSI_enable	*Off	Turn off MSI.	
MSI_length _min	4	Default: 4	
MSI_length _max	55	Default: 55	
MSI_ checkdigit_ verify	On	Turn on MSI_checkdi git_verify.	
MSI_ checkdigit_ verify	*Off	Turn off checkdigit_ verify.	
MSI_ checkdigit_ algorithm	MOD 10/ MOD 11	Use Modulo 10/Modulo 11 to calculate the check digit.	
MSI_ checkdigit_ algorithm	*MOD 10/ MOD 10	Use Modulo 10/Modulo 10 to calculate the check digit.	

Attributes	Option	Description	Bar Code
MSI_ checkdigit_ transmit	On	Turn on MSI_checkdi git_transmit.	
MSI_ checkdigit_ transmit	*Off	Turn off MSI_checkdi git_transmit.	

## Codabar

#### CLSI\_length\_min, CLSI\_length\_max

See the description in Code 11.

### CLSI\_Editing

It removes the start and the stop characters, and inserts a space after the first, fifth and tenth character of a 14-character Codabar bar code.

### NOTIS\_Editing

It removes the start and the stop characters from a decoded Codabar bar code.

### Upper or Lower Case Start/Stop Characters Detection

Detect uppercase or lowercase Codabar start or stop characters.

Attributes	Option	Description	Bar Code
Codabar_ enable	On	Turn on Codebar.	
Codabar_ enable	*Off	Turn off Codebar.	
Codabar_ length_min	5	Default: 5	

Attributes	Option	Description	Bar Code
Codabar_ length_max	55	Default: 55	
CLSI_Editing	On	Turn on CLSI_Editin g	
CLSI_Editing	*Off	Turn off CLSI_Editin g	
NOTIS_ Editing	On	Turn on NOTIS_Editi ng	
NOTIS_ Editing	*Off	Turn off NOTIS_Editi ng	
Upper or Lower Case Start/Stop Characters Detection	*Upper	Detect upper case Codabar start/stop characters.	
Upper or Lower Case Start/Stop Characters Detection	Lower	Detect lower case Codabar start/stop characters.	

# Chinese 2 of 5

(\*) Default

Attributes	Option	Description	Bar Code
Chinese2of5 _enable	On	Turn on Chinese 2 of 5.	
Chinese2of5 _enable	*Off	Turn off Chinese 2 of 5.	

## Korean 3 of 5

Attributes	Option	Description	Bar Code
Korean3of5_ enable	On	Turn on Korean 3 of 5.	
Korean3of5_ enable	*Off	Turn off Korean 3 of 5.	

## **Inverse 1D**

#### Regular

Decode regular 1D bar codes only.

### **Inverse Only**

Decode inverse 1D bar codes only.

#### Auto Detect

Decode both regular and inverse 1D bar codes.

Attributes	Description	Bar Code
*Regular	Decode regular 1D bar codes only.	
Inverse Only	Decode inverse 1D bar codes only.	
Auto Detect	Decode both regular and inverse 1D bar codes.	

# **US Postnet**

### US\_Postnet\_checkdigit\_transmit

See the description in Code 11.

(*) Default			
Attributes	Option	Description	Bar Code
US_Postnet _enable	On	Turn on US Postnet.	
US_Postnet _enable	*Off	Turn off US Postnet.	
US_Postnet _checkdigit _transmit	*On	Turn on US_Postnet_c heckdigit_tra nsmit.	
US_Postnet _checkdigit _transmit	Off	Turn off US_Postnet_c heckdigit_tra nsmit.	

# **US Planet**

(\*) Default

Attributes	Option	Description	Bar Code
US_Planet_ enable	On	Turn on US Planet.	
US_Planet_ enable	*Off	Turn off US Planet.	

# USPS 4CB / One Code / Intelligent Mail

Attributes	Option	Description	Bar Code
USPS_4CB _enable	On	Turn on USPS 4CB.	
USPS_4CB _enable	*Off	Turn off USPS 4CB.	

## **UPU FICS Postal**

(\*) Default

Attributes	Option	Description	Bar Code
UPU_FICS_ Postal_enable	On	Turn on UPU FICS Postal.	
UPU_FICS_ Postal_enable	*Off	Turn off UPU FICS Postal.	

## **UK Postal**

### UK\_Postnet\_checkdigit\_transmit

See the description in Code 11.

Attributes	Option	Description	Bar Code
UK_Postal_ enable	On	Turn on UK Postal.	
UK_Postal_ enable	*Off	Turn off UK Postal.	
UK_Postal_ checkdigit_ transmit	*On	Turn on UK_Postal_chec kdigit_transmit.	
UK_Postal_ checkdigit_ transmit	Off	Turn off UK_Postal_chec kdigit_transmit.	

# **JAP Postal**

(\*) Default

Attributes	Option	Description	Bar Code
JAP_Postal _enable	On	Turn on JAP Postal.	
JAP_Postal _enable	*Off	Turn off JAP Postal.	

## Australia Postal

(\*) Default Bar Code Attributes Option Description Turn on Australia Postal Australia On enable Postal. Turn off Australia\_ Postal Australia \*Off enable Postal.
# **Netherlands KIX Code**

### (\*) Default

Attributes	Option	Description	Bar Code
Netherlands _KIX_Code	On	Turn on Netherlands KIX code.	
Netherlands _KIX_Code	*Off	Turn off Netherlands KIX code.	

### **PDF417**

Attributes	Option	Description	Bar Code
PDF417_ enable	*On	Turn on PDF417.	
PDF417_ enable	Off	Turn off PDF417.	

### Micro PDF417

#### C128\_Emulation

It sends certain Micro PDF417 as Code 128. You need to turn on **AIM Symbology ID** for this attribute to work. Linked Micro PDF417 codes start with 906, 907, 912, 914 and 915 are not supported. Use GS1 Composites instead.

When you turn on C128\_Emulation, the AIM symbology ID of the Micro PDF417 bar code is:

The beginning number of the	The AIM Symbology ID	
Micro PDF417 code		
903-905	]C1	
908-909	]C2	
910-911	]C0	

When you turn off C128\_Emulation, the AIM symbology ID of the Micro PDF417 bar codes is:

The beginning number of the Micro PDF417 code	The AIM Symbology ID
903-905	]L3
908-909	]L4
910-911	]L5

(*	) Default
<u>۱</u>	Dendant

() Belaute			
Attributes	Option	Description	Bar Code
MicroPDF4 17_enable	On	Turn on Micro PDF417.	
MicroPDF4 17_enable	*Off	Turn off Micro PDF417.	
C128_ Emulation	On	Turn on C128_Emulati on.	
C128_ Emulation	*Off	Turn off C128_Emulati on.	

# Micro QR

### (\*) Default

Attributes	Option	Description	Bar Code
MicroQR_ enable	*On	Turn on MicroQR	
MicroQR_ enable	Off	Turn off MicroQR	

# **QR Code**

#### QR\_Inverse

Regular

Decode regular QR codes only.

Inverse Only

Decode inverse QR codes only.

Auto Detect

Decode both regular and inverse QR codes.

(	(*)	Default
1		

Attributes	Option	Description	Bar Code
QR_Code_ enable	*On	Turn on QR code.	
QR_Code_ enable	Off	Turn off QR code.	
QR_ Inverse	*Regular	Decode regular QR codes only.	
QR_ Inverse	Inverse Only	Decode inverse QR codes only.	
QR_ Inverse	Auto Detect	Decode both regular and inverse QR codes.	

# MaxiCode

Attributes	Option	Description	Bar Code
Maxicode_ enable	On	Turn on MaxiCode.	
Maxicode_ enable	*Off	Turn off MaxiCode.	

# GS1 Databar

#### Convert\_GS1\_DataBar\_to\_UPCEAN

This attribute only affects GS1 DataBar and GS1 DataBar Limited bar codes not decoded as part of a composite bar code. It removes the leading "010" from DataBar and DataBar Limited bar codes that encode a single zero as the first digit, and sends the bar code as EAN-13.

For bar codes starting with two or more zeros but not six zeros, it removes the leading "0100" and send the bar code as UPC-A. After conversion, the data is affected by the **UPCA\_Preamble** attribute. Neither the system character nor the check digit can be removed.

Attributes	Option	Description	Bar Code
GS1_ Databar_ enable	*On	Turn on GS1 Databar.	
GS1_ Databar_ enable	Off	Turn off GS1 Databar.	
GS1_ Databar_ Limited	On	Turn on GS1 Databar Limited.	

Attributes	Option	Description	Bar Code
GS1_ Databar_ Limited	*Off	Turn off GS1 Databar Limited.	
GS1_ Databar_ Expanded	On	Turn on GS1 Databar Expended.	
GS1_ Databar_ Expanded	*Off	Turn off GS1 Databar Expended.	
Convert_ GS1_ DataBar_ to_ UPCEAN	On	Convert GS1 Databar to UPC/EAN.	
Convert_ GS1_ DataBar_ to_ UPCEAN	*Off	Do not convert GS1 Databar to UPC/EAN/	

# Composite

### UPC\_Composite\_Mode

It links a UPC bar code and a 2D bar code. If you turn on Composite CC-A/B, you need to decide how these bar codes are linked.

Never Linked

Send the UPC bar code with or without the 2D portion.

Always Linked

Send the UPC bar code and the 2D portion. If the 2D portion is not detected, the UPC bar code won't be sent.

Autodiscriminate UPC Composites

The decoder determines if there is a 2D portion, and sends the UPC bar code as well as the 2D portion (if present).

Attributes	Option	Description	Bar Code
Composite_C C/C	On	Turn on Composite_ CC/C.	
Composite_C C/C	*Off	Turn off Composite_ CC/C.	
Composite_C C-A/B	On	Turn on Composite_ CCA/B.	
Composite_C C-A/B	*Off	Turn off Composite_ CCA/B.	
GS128_Emul ation_ for_UCCEAN Composite	On	Turn on GS128 emulation for UCC/EAN Composite.	
GS128_Emul ation_ for_UCCEAN Composite	*Off	Turn off GS128 emulation for UCC/EAN Composite.	
Composite_T LC39_enable	On	Turn on Composite TLC39.	

Attributes	Option	Description	Bar Code
Composite_T LC39_enable	*Off	Turn off Composite TLC39.	
UPC_Compo site_ Mode	Never Linked	Send the UPC with or without the 2D portion.	
UPC_Compo site_ Mode	*Always Linked	Send the UPC with the 2D portion only.	
UPC_Compo site_ Mode	Autodisc riminate UPC Composi tes	Send the UPC and the 2D portion (if present)	

## Aztec

#### Aztec\_Inverse

- Regular
  Decode regular Aztec bar codes only.
- Inverse Only Decode inverse Aztec codes only.
- Auto Detect Decode both regular and inverse Aztec codes.

Attributes	Option	Description	Bar Code
Aztec_enable	*On	Turn on Aztec.	
Aztec_enable	Off	Turn off Aztec.	
Aztec_Inverse	Regular	Decode regular Aztec bar codes only.	
Aztec_Inverse	Inverse Only	Decode inverse Aztec bar codes only.	
Aztec_Inverse	*Auto Detect	Decode both regular and inverse Aztec bar codes.	

# Data Matrix

#### Data\_Matrix\_Decode

Regular

Decode regular Data Matrix bar codes only.

Auto Detect

Decode both regular and inverse Data Matrix codes.

Attributes	Option	Description	Bar Code
DataMatrix_ enable	*On	Turn on Data Matrix.	
DataMatrix_ enable	Off	Turn off Data Matrix.	
Data_Matrix _Decode	*Regular	Decode regular Data Matrix bar codes only.	
Data_Matrix _Decode	Auto Detect	Decode both regular and inverse Data Matrix bar codes.	

# 5 Troubleshooting

You might encounter some issues when you scan bar codes. This chapter provides information that helps you fix common issues.

# 5.1 Scanner issues

### My scanner doesn't emit the aiming pattern.

- Did you charge your scanner?
- Did you turn off the aiming pattern?
- Your battery wears out. Replace the battery and make sure the new battery is charged.
- Your scanner is waiting your computer to acknowledge data and doesn't receive any response. Unplug your cradle's cable (USB or RS-232) and connect it again.
- Check your USB cable and power supply by connecting them to other compatible devices and test if they work properly. If not, replace them and charge your scanner again.

# 5.2 Bar code issues

# My scanner doesn't read a bar code properly.

- Reset your scanner.
- Check the quality of your bar codes.
  Wrinkled, smudged or torn bar codes won't be read by your scanner.
- Are your bar codes too close to each other? Cover the bar codes you don't need and scan the target again.

#### The data isn't sent to my computer.

- Did you establish the connection between your scanner and cradle?
- Did your scanner connect to other Bluetooth device?
- Make sure the USB cable is tightly plugged into your cradle and computer.
- Your scanner is connecting to another cradle. Break their connection and connect your scanner to your cradle.

#### **Specifications** 6

#### PERFORMANCE CHARACTERISTICS

Aiming Pattern: 655 +/- 10 nm Light Source

laser diode

Illumination: 625 +/- 5 nm LED

Field of	39.6º Horizontal, 25.7º Vertical
View	

Roll/Pitch/ 360°, ±60°, ±60°

Skew

PHYSICAL CHARACTERISTICS				
Dimensions	Scanner: 9.4 x 7.6 x 15.8 cm			
	Cradle: 13x 8.8 x 9.5 cm			
Weight	Scanner: 200 g (battery included)			
	Cradle: 130 g			
Indicator	LED, Beeper, Vibration			
Resolution	752 H x 480 V pixels			
	1D (3 mils): Code 39			
	2D (6.7 mils): PDF417			

#### ACCESSORIES

Power Supply (faster charging) **Power Supplies** 

### SYMBOLOGY DECODE CAPABILITY

	UPC/EAN/UPCA/UPCE/UPCE1/EAN-			
	8/EAN-13/JAN-8/JAN13 plus			
	supplementals, ISBN (Bookland),			
	ISSN, Coupon Code, Code39			
	(Standard, Full ASCII, UCC/EAN-128,			
	ISBT-128 Concatenated), Code 93,			
1-D	Codabar/NW7, Code 11 (standard,			
Symbologies	Matrix 2 of 5), MSI Plessey, I2 of 5			
Symbologies	(Interleaved 2 of 5/ITF, Discrete 2 of			
	5 IATA, Chinese 2 of 5), GS1 Databar			
	(Omnidirectional,			
	Truncated, Stacked, Stacked			
	Omnidirectional, Limited,			
	Expanded, Expanded Stacked,			
	Inverse) Deep 22 (Italian Dharmanu)			
	Inverse), Base 32 (Italian Pharmacy)			
PDF417 (and	PDF417, Micro PDF417, Composite			
PDF417 (and Variants)				
	PDF417, Micro PDF417, Composite			
	PDF417, Micro PDF417, Composite Codes (CC-A, CC-B, CC-C/CC-B, CC-C)			
Variants)	PDF417, Micro PDF417, Composite Codes (CC-A, CC-B, CC-C/CC-B, CC-C) TLC-39, Aztec (Standard, Inverse),			
Variants)	PDF417, Micro PDF417, Composite Codes (CC-A, CC-B, CC-C/CC-B, CC-C) TLC-39, Aztec (Standard, Inverse), MaxiCode, DataMatrix/ECC 200			
Variants)	PDF417, Micro PDF417, Composite Codes (CC-A, CC-B, CC-C/CC-B, CC-C) TLC-39, Aztec (Standard, Inverse), MaxiCode, DataMatrix/ECC 200 (Standard, Inverse), QR Code			
Variants) 2-D Symbologies	PDF417, Micro PDF417, Composite Codes (CC-A, CC-B, CC-C/CC-B, CC-C) TLC-39, Aztec (Standard, Inverse), MaxiCode, DataMatrix/ECC 200 (Standard, Inverse), QR Code (Standard, Inverse and Micro) 25% minimum reflectance			
Variants) 2-D Symbologies Print Contrast	PDF417, Micro PDF417, Composite Codes (CC-A, CC-B, CC-C/CC-B, CC-C) TLC-39, Aztec (Standard, Inverse), MaxiCode, DataMatrix/ECC 200 (Standard, Inverse), QR Code (Standard, Inverse and Micro)			
Variants) 2-D Symbologies Print Contrast Interface	PDF417, Micro PDF417, Composite Codes (CC-A, CC-B, CC-C/CC-B, CC-C) TLC-39, Aztec (Standard, Inverse), MaxiCode, DataMatrix/ECC 200 (Standard, Inverse), QR Code (Standard, Inverse and Micro) 25% minimum reflectance			

USER ENVIRONM	IENT
Operating Temperature	0°C to 50°C (32°F to 122°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Humidity	5% to 95% related humidity, non-
	condensing
Drop	Withstands multiple 6 ft./1.8 m
Specifications	drops to concrete (Cradle: 0.9 m)
Contaminants	Seals to resist airborne particulate
	contaminants (IP65)
Ambient Light	Up to 100,000 LUX, immune to
Immunity	normal artificial indoor and natural outdoor (direct sunlight) lighting

REGULATORY	
Electrical Safety	EN60950-1, CNS14336
Laser Safety	EN60825-1:1994 +A1: 2002 +A2
	2001, IEC60825-1,
	21CFR1040.10 and
	21CFR1040.11, CDRH Class II,
	IEC Class 2
EMI/RFI	CE, FCC, BSMI, NCC
EMI/RFI Environmental	CE, FCC, BSMI, NCC Compliant with RoHS directive
-	, , ,
-	Compliant with RoHS directive
Environmental	Compliant with RoHS directive 2002/95/EEC
Environmental	Compliant with RoHS directive 2002/95/EEC Bluetooth™, Class 1 (100M, in

### **ELECTRICAL CHARACTERISTICS**

Battery	Rechargeable Li-Ion battery pack
-	(3.7V, 2200mAh, 9.25Wh)
	Up to 55 hours of operation
Battery Charger	Power Supply: 4.5 hours
Time	USB Cable: 6.5 hours

### Appendix A. Test symbologies

Bar codes marked with asterisk (\*) are turned on initially.







**Micro PDF** 



mppenuix	Di Hov		ubi	C			
_L ₩	0			1	0		1
0	Null				NUL		DLE
1	Up			F1	SO	Н	DC1
2	Dowr	Down		F2	STX		DC2
3	Left			F3	F3 ET>		DC3
4	Right	t		F4	EOT		DC4
5	PgUp	)		F5 ENC		Q	NAK
6	PgDr	า		F6	AC	К	SYN
7				F7	BE	L	ETB
8	Bs			F8	BS	5	CAN
9	Tab			F9	Н	г	EM
А				F10	LF	:	SUB
В	Home	е		Esc	VT		ESC
С	End			F11	FF		FS
D	Enter	r		F12	CR		GS
E	Inser	t	t Ctrl+		SO		RS
F	Delet	e		Alt+	SI		US
L H	2		3	4	5	6	7
0	SP		0	@	Р	`	р
1	!		1	А	Q	а	q
2	"		2	В	R	b	r
3	#		3	С	S	с	s
4	\$		4	D	Т	d	t
5	%		5	Е	U	е	u
6	&		6	F	V	f	v
7	1		7	G	W	g	w
8	(		8	Н	Х	h	x
9	)		9	Ι	Y	i	У
А	*		:	J	Z	j	Z
В	+		;	К	[	k	{
С	,		<	L	١	Ι	
D	-		=	М	]	m	}
E			>	Ν	^	n	~
F	/		?	0		0	DEL

Appendix B. ASCII table

### Appendix C. Default settings of bar codes

V: Enabled -: Unsupported Space: Disabled

Code Type	Read	Checksum Verificatio	Checksum Transmissio	
coue type	Enable	n Enable	n Enable	
Code 11				
Code 39	V			
Italian				
Pharmacy				
(Code 32)				
Code 93		-	-	
Code 128	V	-		
ISBT 128	V	-		
EAN-8	V	-	-	
EAN-13	V	_		
UCC-128/EAN-	V	_	_	
128 (GS1-128)	v			
UPC-A	V		V	
UPC-E	V		V	
UPC-E1			V	
Discrete 2 of 5		_	_	
(DTF)		_	_	
Interleaved 2				
of 5 (125)				
MSI				
Codabar		-	-	
Chinese 2 of 5		_		
Korean 3 of 5		-	-	
Inverse 1D	V			
US Postnet			V	
US Planet				
USPS 4CB /				
One Code /		-	-	
Intelligent Mail				
UPU FICS		_	_	
Postal		-		

Code Type	Read Enable		Checksum Transmissio n Enable
UK Postal			V
JAP Postal		-	-
Australia			
Postal		-	-
Netherlands			
KIX Code		-	-
PDF417	V	-	-
Micro PDF417		-	-
Micro QR	V	-	-
QR Code	V	-	-
MaxiCode		-	-
GS1 Databar	V	-	-
Composite		-	-
Aztec	V	-	-
Data Matrix	V	-	-

### Appendix D. Data entry bar codes



Save



Cancel