

AI-6821 2D Scanner

User Guide



Regulatory Compliance

This device complies with Part 15 of the FCC Rules. Operation shall be subject to the following two conditions:

(1) This device may not cause harmful interface, and

(2) This device must accept any interface received, including interface that may cause undesirable operation.

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.



Note All brands and trademarks shall belong to their respective owner.

Note Specification is subject to changes without notice.

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.



Contents

1	Introdu	ıction 1	L
	1.1 Unj	packing1	L
	1.2 Uno	derstand your scanner3	3
	1.2.1	Scanner	3
	1.2.2	Cradle4	ļ
	1.3 Ind	icators5	5
	1.3.1	Status lights5	5
	1.3.2	Status sound6	5
	1.3.3	Vibration6	5
2	Get sta	rted7	7
	2.1 Inst	allation7	7
	2.1.1	Set up your scanner7	7
	2.1.2	How to scan)
	2.1.3	Work with the ASCII table10)
	2.1.4	Search your scanner10)
	2.2 Bat	tery10)
	2.2.1	Charge the battery 11	L
	2.2.2	Replace the battery11	L
	2.3 Cor	nnection14	ł
	2.3.1	Connect to your cradle again14	ł
	2.3.2	Connect to a Bluetooth adapter14	ł
	2.3.3	Connect to a mobile device	3
		Connect to an iOS device 18	3
		Connect to an Android device20)
3	Contro	ls and settings23	3
	3.1 Dat	a transmission23	3
	3.1.1	Character length 23	3
	3.1.2	Name of the bar code type24	ł

3.1.3	AIM symbology ID24			
3.1.4	Acknowledge timeout 25			
3.1.5	Prefix and suffix27			
3.2 Volume and vibration				
3.2.1	Good scan beep duration28			
3.2.2	Inquiry beep (cradle only)29			
3.2.3	Scan volume31			
3.2.4	Vibration 32			
3.2.5	Power on alert			
3.3 Op	erating mode34			
3.3.1	Handcuff mode34			
3.3.2	Batch mode35			
3.3.3	Sleep mode (cradle only)			
3.3.4	Auto-sensing mode37			
3.4 Interface selection (cradle only)				
J.4 III.	chace selection (chaule only)			
	HID setting			
	HID setting			
3.4.1	HID setting			
3.4.1	HID setting			
3.4.1	HID setting38Country (cradle only)38Caps Lock (cradle only)40Function key (cradle only)41Alphanumeric keys (cradle only)42RS-232 settings43Flow control (cradle only)43			
3.4.1	HID setting38Country (cradle only)38Caps Lock (cradle only)40Function key (cradle only)41Alphanumeric keys (cradle only)42RS-232 settings43Flow control (cradle only)43Response delay (cradle only)44			
3.4.1 3.4.2	HID setting38Country (cradle only)38Caps Lock (cradle only)40Function key (cradle only)41Alphanumeric keys (cradle only)42RS-232 settings43Flow control (cradle only)43Response delay (cradle only)44Baud (cradle only)46			
3.4.1 3.4.2	HID setting38Country (cradle only)38Caps Lock (cradle only)40Function key (cradle only)41Alphanumeric keys (cradle only)42RS-232 settings43Flow control (cradle only)43Response delay (cradle only)44Baud (cradle only)46Parity check (cradle only)46			
3.4.1 3.4.2 3.5 Up	HID setting38Country (cradle only)38Caps Lock (cradle only)40Function key (cradle only)41Alphanumeric keys (cradle only)42RS-232 settings43Flow control (cradle only)43Response delay (cradle only)44Baud (cradle only)46Parity check (cradle only)46date firmware49			
3.4.1 3.4.2 3.5 Upt	HID setting38Country (cradle only)38Caps Lock (cradle only)40Function key (cradle only)41Alphanumeric keys (cradle only)42RS-232 settings43Flow control (cradle only)43Response delay (cradle only)44Baud (cradle only)46Parity check (cradle only)46date firmware49Install driver55			

	3.6.3	PIN code setting	58
	3.6.4	Mobile phone mode	59
	3.6.5	Disconnection	59
	3.6.6	Aiming pattern	59
	3.6.7	Align mode	60
	3.6.8	Reset your scanner	60
	3.6.9	Scanner information	62
	3.7 Dat	a Magic	63
		Data Magic commands	64
	3.7.1	Bar code scanning	67
		Data format	67
		Bar codes	70
		Example	77
	3.7.2	Scan Utility	81
		Virtual COM	05
4	Bar coo	des	
4			87
4	Code 1	des	87 87
4	Code 1 Code 3	des 1	87 87 90
4	Code 1 Code 3 Italian	des 1 9	87 87 90 93
4	Code 1 Code 3 Italian Code 9	des 1 9 Pharmacy (Code 32)	87 90 93 94
4	Code 1 Code 3 Italian Code 9 Code 1	des 1 9 Pharmacy (Code 32) 3	87
4	Code 1 Code 3 Italian Code 9 Code 1 ISBT 12	des 1 9 Pharmacy (Code 32) 3 28	87 87 90 93 93 94 95 95 96
4	Code 1 Code 3 Italian Code 9 Code 1 ISBT 12 EAN-8	des 1 9 Pharmacy (Code 32) 3 28 28	87 90 93 94 95 96 98
4	Code 1 Code 3 Italian Code 9 Code 1 ISBT 12 EAN-8 EAN-13	des 1 9 Pharmacy (Code 32) 3 28 28	87 90 93 94 95 96 98 99
4	Code 1 Code 3 Italian Code 9 Code 1 ISBT 12 EAN-8 EAN-13 UCC-12	des 1 9 Pharmacy (Code 32) 3 28 28 28 3	87 90 93 94 95 96 98 99 91
4	Code 1 Code 3 Italian Code 9 Code 1 ISBT 12 EAN-8 EAN-13 UCC-12 UPC-A	des 1 9 Pharmacy (Code 32) 3 28 28 28 28 28 28 28 28 28 28 28 28	87 90 93 94 95 96 98 99 101 102
4	Code 1 Code 3 Italian Code 9 Code 1 ISBT 12 EAN-8 EAN-13 UCC-12 UPC-A UPC-E.	des 1 9 Pharmacy (Code 32) 3 28	87 90 93 94 95 96 98 99 101 102 104
4	Code 1 Code 3 Italian Code 9 Code 1 ISBT 12 EAN-8 EAN-8 UCC-12 UPC-12 UPC-E. UPC-E.	des 1 9 Pharmacy (Code 32) 3 28 29 29 29 20	87 90 93 94 95 96 98 98 91 101 102 104 110

	MSI	115	
	Codabar	118	
	Chinese 2 of 5	120	
	Korean 3 of 5	120	
	Inverse 1D	121	
	US Postnet	122	
	US Planet	123	
	USPS 4CB / One Code / Intelligent Mail	123	
	UPU FICS Postal	124	
	UK Postal	124	
	JAP Postal	125	
	Australia Postal	125	
	Netherlands KIX Code	126	
	PDF417	126	
	Micro PDF417	127	
	Micro QR	129	
	QR Code	129	
	MaxiCode	130	
	GS1 Databar	131	
	Composite	133	
	Aztec	136	
	Data Matrix	137	
5	Troubleshooting	139	
	5.1 Scanner issues	139	
	5.2 Bar code issues	140	
6	Specifications	141	
Aŗ	ppendix A. Test symbologies	145	
Aŗ	ppendix B. ASCII table	148	
Aŗ	Appendix C. Default settings of bar codes		
Appendix D. Data entry bar codes1			

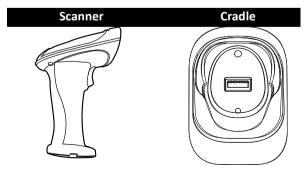
1 Introduction

AI-6821 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 still recognizes it.

1.1 Unpacking

Make sure all following items are included in your package.



PlugQuick Start GuideIt comes with the
power supply. The plug
varies according to
your country.Quick Start GuideUSB CableorRS-232 CableIt Start GuideIt Start G



- 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.

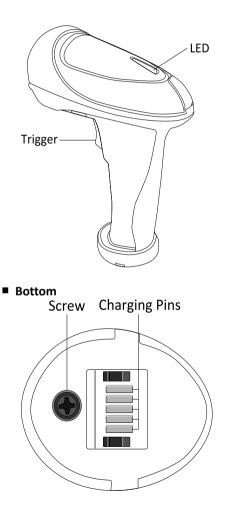


Note If any item is missing, please contact your local dealer.

1.2 Understand your scanner

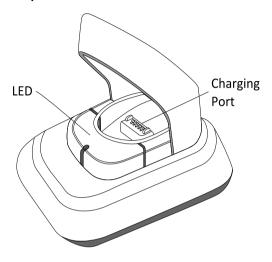
1.2.1 Scanner

Perspective

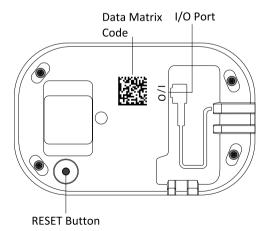


1.2.2 Cradle

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 blue at 1-second intervals	Flash blue at 1-second intervals
Scanner Disconnected	Off	Off
Good Scan	Flash green once	Flash green once
Cradle ACK Timeout	Flash red every 0.5 second until timeout	N/A
Firmware Update	Flash <mark>amber</mark> fast	Flash green 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 green 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
Good Scan	Vibrate

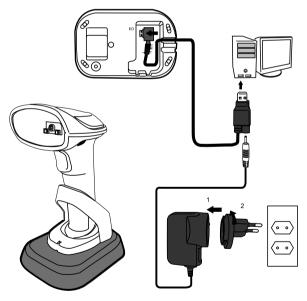
2 Get started

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).
- 4. Scan the Data Matrix code at the bottom of your cradle to establish the connection between your scanner and cradle.
- 5. 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 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 two short beeps from your scanner, and you can locate it by the beep sound.

2.2 Battery

AI-6821 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.

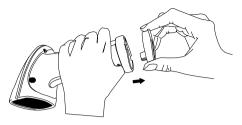
2.2.2 Replace the battery

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

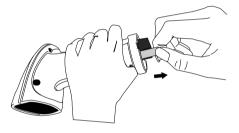
1. Loosen the screw at the bottom of your scanner.



2. Remove the battery cap.



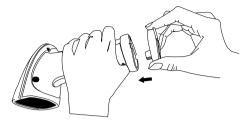
3. Pinch the tape at the top of the battery and pull the battery out.



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



5. Put the battery cap back to your scanner.



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.



 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:		
	11111111	
O Don't use a passkey		
(e) 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 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.

Option	Description	Bar Code
MAC/HID	Connect to an iOS device.	

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:XXXXXXXXXX " (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.



 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:XXXXXXXXX " (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.

🖬 🗟 🔊 🖏 🚸 🕸 🖄 🏹 🐴 📋 10	:14
Kano Cano	
(EAN-13)4710177081318	
(Code 128)81131454 (Bookland)735648719	_
(Code 128)T91235076	
(Code 128)50630297 (Code 39)90425301	_
(Code 128)T00852232	
	_
	_
	_
	_
	9

3 Controls and settings

Customize your scanner to work efficiently. AI-6821 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.

(*) Defaul	t	
Option	Description	Bar Code
On	Show the number of the character length at the beginning of a bar 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.	
*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.

(*) Default

	iit.	
Option	Description	Bar Code
	Your scanner won't wait	
	your cradle to notify it that	15223
0 sec	data has been	862
	acknowledged. Data might	014.0
	be lost if scanning too fast.	
	Your scanner waits 1	PP3P
1 sec	second for your cradle to	is a s
I SEC	notify it that data has been	688
	acknowledged.	
	Your scanner waits 2	
*2 sec	seconds for your cradle to	12.24
2 sec	notify it that data has been	<u>267</u> 2
	acknowledged.	
	Your scanner waits 3	PPHR
2	seconds for your cradle to	Real Provide State
3 sec	notify it that data has been	
	acknowledged.	
	Your scanner waits 4	PPUR
4	seconds for your cradle to	1629E
4 sec	notify it that data has been	
	acknowledged.	
5 sec	Your scanner waits 5	
	seconds for your cradle to	18249 -
	notify it that data has been	2.22
	acknowledged.	
	Your scanner waits 6	PP IL
6 sec	seconds for your cradle to	10.20
	notify it that data has 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 Add o code 	one character at the e	end of your bar
Option	Description	Bar Code
00-FF	Suffix length: one character	1223

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)	
2	0.2 second	
3	0.3 second	

Option	Description	Bar Code
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.

(*) Delault		
Option	Description	Bar Code
	Your cradle won't	64094
Mute	beep when it	Le L
mate	doesn't connect to	01 Z.
	any scanner.	
	You cradle beeps	
	every 10 seconds	6222
1	when it doesn't	
	connect to any	L 1 1 18
	scanner.	
	You cradle beeps	
	every 20 seconds	K\$372
2	when it doesn't	
	connect to any	Caller D
	scanner.	
	You cradle beeps	
	every 30 seconds	KSAC .
3	when it doesn't	
	connect to any	1013
	scanner.	
	You cradle beeps	
	every 40 seconds	K\$230
4	when it doesn't	19 0 -
	connect to any	10.16
	scanner.	
	You cradle beeps	
	every 50 seconds	6525
5	when it doesn't	
	connect to any	
	scanner.	
	every 40 seconds when it doesn't connect to any scanner. You cradle beeps every 50 seconds when it doesn't connect to any	

Option	Description	Bar Code
	You cradle beeps	
	every 60 seconds	6589
6	when it doesn't	
	connect to any	630.2
	scanner.	
	You cradle beeps	
	every 70 seconds	653 (4)
7	when it doesn't	
	connect to any	<u>0.2500</u>
	scanner.	
	Your cradle	
*8	continues to beep	KSQC .
o (continue)	when it doesn't	84
(continue)	connect to any	MULT
	scanner.	

3.2.3 Scan volume

You can adjust the beep volume of your scanner.

(*) Default		
Option	Description	Bar Code
0	Mute	
1	Level 1 (MIN)	

Option	Description	Bar Code
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.

(*) Default		
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 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	KNXN
*Off	doesn't alert when	6.00
OII	it lost Bluetooth	
	connection.	
	You scanner beeps	кизи
10 sec	for 10 seconds after	
10 360	it lost Bluetooth	1423
	connection.	
	You scanner beeps	KN220
20 sec	for 20 seconds after	144
20 300	it lost Bluetooth	6.40
	connection.	
	You scanner beeps	кири
30 sec	for 30 seconds after	
30 360	it lost Bluetooth	
	connection.	
	You scanner beeps	KNXM
40 sec	for 40 seconds after	i di second
40 300	it lost Bluetooth	
	connection.	

Option	Description	Bar Code
50 sec	You scanner beeps	rran
	for 50 seconds after	ы a a
	it lost Bluetooth	863C -
	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.

(*) Default

	Description	Day Cada
Option	Description	Bar Code
*On	You scanner stores	
	data in its storage	NS200
	when it lost	6.5
	Bluetooth	<u> 188</u>
	connection.	
Off	No data is stored.	

3.3.3 Sleep mode (cradle only)

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.

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

(*) Defaul	t

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.

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

3.4 Interface selection (cradle only)

AI-6821 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.

() Delault		
Option	Description	Bar Code
1	RS-232	
3	USB HID	

Option	Description	Bar Code
*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	E CAR

Option	Description	Bar Code
1	Belgium	
2	Denmark	
3	France	
4	Germany	
5	Italy	
6	Portugal	
7	Spain	
8	Sweden	

Option	Description	Bar Code
9	Switzerland	
10	United Kingdom	
11	Latin America	
12	Japan	

Caps Lock (cradle only)

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

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	N2229
*On	bar codes that	6.3
	correspond to the	N 1772
	ASCII code of a	
	function key.	
Off	Turn off function key simulation.	

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.

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

Option	Description	Bar Code
	Your computer and cradle	
	only use TxD and RxD signals	655 B
*None	for communication. No	£ Co
	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	2663
RTS/CTS	signal, and waits to receive a	£495
	CTS signal from your	A 11 - 26
	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	
	unable to receive data, it	1578 <u>0</u>
Xon/Xoff	sends an Xoff signal to	144 C
	notify your scanner to stop	1912
	sending data; it sends an	
	Xon signal when it's ready.	

Option	Description	Bar Code
	You scanner sends data after it received an ACK signal	6525
ACK/NAK	from your computer, and will resend 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.

(*) Default		
Option	Description	Bar Code
0	Your cradle doesn't wait your computer to acknowledge the	
	data transmission.	
10	Your cradle waits 1 second.	
*20	2 seconds	
30	3 seconds	

Option	Description	Bar Code
40	4 seconds	
50	5 seconds	
60	6 seconds	
70	7 seconds	
80	8 seconds	
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.

(*) Default

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

Auto Update

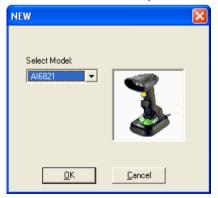
Every time your cradle connects to your scanner, Auto Update checks the firmware version of your cradle and scanner, and automatically updates your scanner's firmware if its version is different from your cradle's.

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

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

- 1. Start Scan Utility.
 - 🍞 Sample1 Scan Uti Setup Tool File View New Ctrl+N Ctrl+O Open... Save Ctrl+S Save As... Print Setup Preview Print 1 Sample1 Exit
- 2. On the File menu, click New.

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



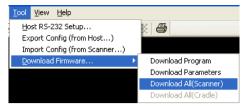
4. In the Scan Utility dialog box, click No.



If you're using the RS-232 cable to connect to your scanner, you need to do the following before you proceed to the next step:

- (1) On the Tool menu, click Host RS-232 Setup.
- (2) In the Host RS-232 Setup dialog box, select the COM port your scanner is using and click Port Setting.
- (3) In the Port Setting dialog box, in the Baud rate list, select 115200 and click OK.
- (4) In the Host RS-232 Setup dialog box, click OK.
- On the Tool menu, click Download
 Firmware > Download All (Scanner).
 Your cradle will flash green after it enters the firmware update mode.

Note If you want to exit the firmware update mode, unplug the cable of your cradle.



 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.

Note If you're using the RS-232 cable to connect your scanner, ignore this step and proceed to step 7.



 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		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.

Change Firmware			
Status Model: File Name: Download Version: Current Version:	AI6821 AI6821_C-01_04_ C-01.04 Find C-01.03		J
		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.



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	

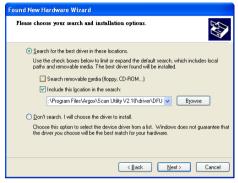
Install driver

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 during the firmware updating process. Take the following steps to install it.

1. 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 is C:\Program Files\Argox\(Your Scan Utility version)\driver\DFU. After setting the path, click Next.



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.

(*) Default		
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

() = = = = =		
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
Disconnection	Disconnect your scanner from your cradle.	

3.6.6 Aiming pattern

By default, your scanner projects the aiming pattern during the scan. You can turn it off.

(*) Defaul	t	
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	

Option	Description	Bar Code
Scanner's Information	Display your scanner's information.	

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 easy-operated user interface. Choose the method that meets your need.

Data Magic commands

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

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

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

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

٢	00000000
L	

Note If you use Data Magic by scanning bar codes, you don't need the Erase command.

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:

() Derada	·	
Option	Description	Bar Code
On	Turn on Data Magic.	
*Off	Turn off Data Magic.	

(*) Default

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

Command	Attribute 1	Attribute 2
InsertF	Position	String
InsertB	Position	String
CutF	From	То
CutB	From	То
КеерҒ	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:



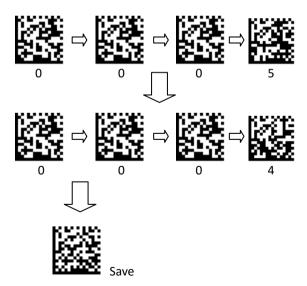
Rule 1





InsertF





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	
 Clear ru 	les	
To clear	a rule, scan its bar	code.
Option	Description	Bar Code
Option Rule 1	Description Clear Rule 1	Bar Code
Rule 1		Bar Code
Rule 1 Rule 2	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	
Comm	ands	
The ba comma	r codes below are Da ands.	ata Magic
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.	
КеерҒ	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.	
Clear st	trings	
To clea	r a string, scan its bai	r code.
Option	Description	Bar Code
String1	Clear String 1.	
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.



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.

Option	Description	Bar Code
Clear All	Clear all values.	

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			Attribute 1					Save		
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	At	Attribute 1				trib	Save		
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			Attribute 1					Savo		
3	CutF	0	0	0	1	0	0	0	5	Jave

Data: <u>ARGOX</u>89121121

Result: 89121121

CutB

Remove first 8 characters from the right of the string.

Rule			Attribute 1							
4	CutF	0	0	0	1	0	0	0	8	Jave

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	Attribute 1				trib	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		Attribute 1						Cavo		
7	FindF	0	0	0	3	0	0	0	1	Jave

0000: Include

Data: AR<u>GOX</u>89121121 Result: GOX89121121 0001: Exclude

Data: <u>ARGOX</u>89121121

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	At	Attribute 1 Attribu					ute	2	Save
8	FindB	0	0	0	3	0	0	0	1	Save
0000:	Include	nclude 0001: Exclude								
Data:	ARGOX <u>89121</u>		Data	a: A	R <u>G(</u>	<u> 2X8</u>	912	1121		
Result	esult: ARGOX					ult:	AR			

Replace

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

Rule	Command	At	trib	ute	1	At	trib	oute	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.

 ٦	0000000	1
		l
		I

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.

Scanner Setup						
Interface Selection Keyboard	RS-232 Wand emulation Indication Transmission Scan mode String setting Data Magic					
I Data Magic Rule I	- Rule 6					
Enable InsertF •	position 1 F from 4 string Group2 • to 6					
Rule 2 Enable InsertB	ponition 1					
Rule 3	from 2 to 4					
Rule 4	from 2 to 4					
Rule 5 🔽 Enable Replace 💌	staing Group1 T with staing Group2 T					
	<u></u>					
Command	Example					
nsertF	Position: 1					
	String: Group 2					
	Group 2: Argox					
	Original String: 12345678					
	Result: 1 <u>Argox</u> 2345678					
InsertB	Position: 1					
	String: Group 2					
	Group 2: Argox					
Original String: 12345678						

Result: 1234567<u>Argox</u>8

CutF	From: 2 To: 4				
	Original String: 1 <u>234</u> 5678				
	Result: 15678				
CutB	From: 2 To: 4				
	Original String: 1234 <u>567</u> 8				
	Result: 12348				

Command	Example
Replace	String: Group1 With String: Group 2 Group 1: 456
	Group 2: Argox
	Original String: 123 <u>456</u> 78 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
	 Result: <u>45</u>678 Include/Exclu: Exclude
	Result: 678
FindB	String: Group 3 Group 4: 45 Original String: 123 <u>45</u> 678 Include/Exclu: Include
	 Result: 123<u>45</u> Include/Exclu: Exclude
	Result: 123
Erase	In Rule 10, In the command list, click Erase , and Rule 10 will be removed. You can also clear the Enable 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 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.

(*) Default

	•	- • ••	
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.

(*) Default			
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	2028) 14402 14602
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.

(*) Default

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

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> <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> <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> <data>)</data></system 	Show the system character at the beginning of a bar code.	
UPCE_ Preamble	System Character & Country Code (<country CODE> <system CHARACTE R> <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	Kersun
UPCE1_	(<system< td=""><td>character at</td><td>a de la calendaria de la c</td></system<>	character at	a de la calendaria de la c
Preamble	CHARACT	the	t i Best
	ER>	beginning of	
	<data>)</data>	a bar code.	

Attributes	Option	Description	Bar Code
UPCE1_ Preamble	System Character & Country Code (<count RY CODE> <system CHARACT ER> <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.

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

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
I25_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 I25_checkdigit _transmit.	
l25_ 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

Attributes	Option	Description	Bar Code
Australia_ Postal_ enable	On	Turn on Australia Postal.	
Australia_ Postal_ enable	*Off	Turn off Australia 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 Micro PDF417 code	The AIM Symbology ID	
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			
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

() Deludit			
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).

(*) Default

(*) Default			
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.

(*) Default

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.

6 Specifications

PERFORMANCE CHARACTERISTICS

Light Source Aiming Pattern: 655 +/- 10 nm

laser diode

Illumination: 625 +/- 5 nm LED

Field of	39.6º Horizontal, 25.7º Vertical
View	,,
Roll/Pitch/	360°, ±60°, ±60°
Skew	300,100,100

PHYSICAL CHARACTERISTICSDimensionsScanner: 9.4 x 7.6 x 15.8 cm
Cradle: 13x 8.8 x 9.5 cmWeightScanner: 200 g (battery included)
Cradle: 130 gIndicatorLED, Beeper, VibrationResolution752 H x 480 V pixels
1D (3 mils): Code 39
2D (6.7 mils): PDF417

ACCESSORIES

Power Supplies Power Supply (faster charging)

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,		
	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), Base 32 (Italian Pharmacy)		
PDF417 (and	PDF417, Micro PDF417, Composite		
Variants)	Codes (CC-A, CC-B, CC-C/CC-B, CC-C)		
	TLC-39, Aztec (Standard, Inverse),		
2-D	MaxiCode, DataMatrix/ECC 200		
Symbologies	(Standard, Inverse), QR Code		
	(Standard, Inverse and Micro)		
Print Contrast	25% minimum reflectance		
Interface	RS-232, USB		
Supported	N3-232, USB		
Depth of	15 mil Data Matrix: Max 12.4"		
Field	100% UPC: 1.6–15.5"		

USER ENVIRONN	/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

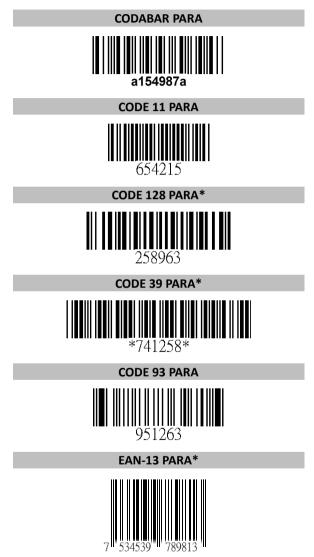
REGULATORY	
Electrical Safety	EN60950-1, CNS14336
Laser Safety	EN60825-1:1994 +A1: 2002 +A2
-	2001, IEC60825-1,
	21CFR1040.10 and
	21CFR1040.11, CDRH Class II,
	IEC Class 2
EMI/RFI	CE, FCC, BSMI, NCC
EMI/RFI Environmental	CE, FCC, BSMI, NCC Compliant with RoHS directive
	Compliant with RoHS directive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

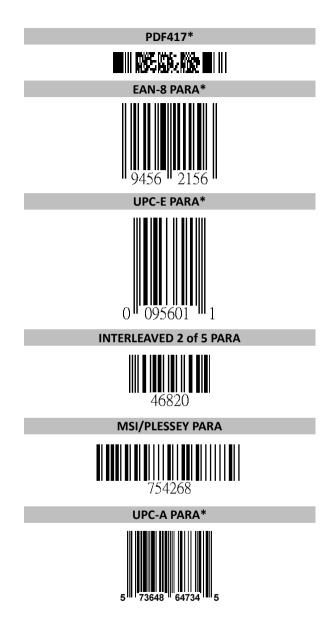
ELECTRICAL CHARACTERISTICS

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	
Power Input	5V ± 10% VDC / 1A	

Appendix A. Test symbologies

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









Micro PDF



L01010NullF1NULDLE1UpF1SOHDC12DownF2STXDC23LeftF3ETXDC34RightF4EOTDC45PgUpF5ENQNAK6PgDnF6ACKSYN7F7BELETB8BsF8BSCAN9TabF90HTESCAF10LFFSUBBHomeESCVTESCCEnterF12CRGSDEnterF12CRGSEInsertCtrl+SORSfOSP0@P`<11AQaq2"23Kbr3#3CSScs11AQaq11AQaq1SEUeu6%SEUeu6%SEUqi11AQaq11AQaq1SEUeu1SEUii11AQi<	mppenuiz	D. 110	un	ub				
1 Up F1 SOH DC1 2 Down F2 STX DC2 3 Left F3 ETX DC3 4 Right F4 EOT DC4 5 PgUp F5 ENQ NAK 6 PgDn F6 ACK SYN 7 T F7 BEL ETB 8 Bs F8 BS CAN 9 Tab F9 HT EM A F10 LF SUB SUB B Home Esc VT ESC C End F11 FF FS D Enter F12 CR GS E Insert Ctrl+ SU VS I 1 A Q a q Q SP O @ P ` P 1 1 A Q a q Q SP O @ P	L #	0		1		0		1
2 Down F2 STX DC2 3 Left F3 ETX DC3 4 Right F4 EOT DC4 5 PgUp F5 ENQ NAK 6 PgDn F6 ACK SYN 7 F7 BEL ETB 8 Bs F8 BS CAN 9 Tab F9 HT EM A F10 LF SUB B Home Esc VT ESC C End F11 FF FS D Enter F12 CR GS E Insert Ctrl+ SO RS F Delete Alt+ S 6 7 0 SP 0 @ P \black g 1 1 A Q a q 2 ''' 2 B R b r 3 # 3 C	0	Null				NUL		DLE
3 Left F3 ETX DC3 4 Right F4 EOT DC4 5 PgUp F5 ENQ NAK 6 PgDn F6 ACK SYN 7 F7 BEL ETB 8 Bs F7 BL<	1	Up			F1	SO	Н	DC1
4 Right F4 EOT DC4 5 PgUp F5 ENQ NAK 6 PgDn F6 ACK SYN 7 I F7 BEL ETB 8 Bs F8 BS CAN 9 Tab F9 HT EM A I F10 LF SUB B Home Esc VT ESC C End F11 FF FS D Enter F12 CR GS F Delete Alt+ SI US L 4 S 6 7 0 SP 0 @ P `<	2	Dowr	า					DC2
5 PgUp F5 ENQ NAK 6 PgDn F6 ACK SYN 7 F7 BEL ETB 8 Bs F8 BS CAN 9 Tab F9 HT EM A F10 LF SUB B Home Esc VT ESC C End F11 FF FS D Enter F12 CR GS E Insert Ctrl+ SO RS F Delete Alt+ SI US L 4 5 6 7 0 SP 0 @ P `<	3	Left			F3	ETX		DC3
6 PgDn F6 ACK SYN 7 F7 BEL ETB 8 Bs F8 BS CAN 9 Tab F9 HT EM A F10 LF SUB B Home Esc VT ESC C End F11 FF FS D Enter F12 CR GS E Insert Ctrl+ SO RS F Delete Alt+ SI 0 9 1 1 A Q a q 2 " 2 3 4 5 6 7 0 SP 0 @ P `<	4	Right				EOT		DC4
7 $F7$ BEL ETB 8 Bs $F8$ BS CAN 9 Tab $F9$ HT EM A $F10$ LF SUB B Home Esc VT ESC C End $F11$ FF FS D Enter $F12$ CR GS E Insert $Ctrl+$ SO RS F Delete $Alt+$ SI US L 4 5 6 7 0 SP O $@$ P $``$ 1 1 A Q a q 2 $"$ 2 B R b r 3 $#$ 3 C S c s 4 2 3 4 5 6 7 0 SP O $@$ P $`$ p 1	5	PgUp)		F5	ENQ		NAK
8 Bs F8 BS CAN 9 Tab F9 HT EM A F10 LF SUB B Home Esc VT ESC C End F11 FF FS D Enter F12 CR GS F Delete Alt+ SU VS F Delete Alt+ SI 0 P L H 2 3 4 5 6 7 0 SP 0 @ P `<	6	PgDr	n		F6	AC	К	SYN
9 Tab F9 HT EM A F10 LF SUB B Home Esc VT ESC C End F11 FF FS D Enter F12 CR GS E Insert Ctrl+ SO RS F Delete Alt+ SI 6 7 0 SP 0 @ P ^ p 1 1 A Q a q 2 " 2 B R b r 1 1 A Q a q 2 " 2 B R b r 3 # 3 C S c s 4 \$ 4 D T d t 5 % 5 E U e u 6 & F V f v r 7 '	7				F7	BEL		ETB
A Home F10 LF SUB B Home Esc VT ESC C End F11 FF FS D Enter F12 CR GS E Insert Ctrl+ SO RS F Delete Alt+ SI US L H 2 3 4 5 6 7 0 SP O @ P `<	8	Bs			F8	BS	5	CAN
B Home Esc VT ESC C End F11 FF FS D Enter $F12$ CR GS E Insert $Ctrl$ + SO RS F Delete Alt + S G 7 0 SP A G Q Q Q 1 1 A Q Q Q Q 1 1 AA Q Q Q Q 2 $"" 2 B R Q Q 1 1 A Q Q Q Q 2 "" 2 B R Q Q Q 3 # 3 C S C S Q Q Q 3 # 3 C S C S Q Q $	9	Tab			F9	HI	Г	EM
C End F11 FF FS D Enter F12 CR GS E Insert Ctrl+ SO RS F Delete Alt+ SI US L H 2 3 4 5 6 7 O SP O @ P `<	A				F10	LF		SUB
D Enter F12 CR GS E Insert Ctrl+ SO RS F Delete Alt+ SI US L H 2 3 4 5 6 7 O SP O @ P ` pp 1 1 A Q a q 2 "" 2 B R b r 3 # 3 CC S c s 3 # 3 CC S c s 4 \$ 4 D T d t 5 % 5 E U e u 6 & 6 F V f v 7 ' 7 G W g w 6 & 6 F V f v 7 ' 7 G W g w 8	В	Home	е		Esc	V	r i	ESC
E Insert Ctrl+ SO RS F Delete Alt+ SI US L H 2 3 4 5 6 7 O SP O @ P $^{\land}$ p 1 1 A Q a q 2 " 2 B R b r 3 # 3 C S c s 4 \$ 4 D T d t 5 % 5 E U e u 6 & 6 F V f v 7 ' 7 G W g w 8 (8 H X h X 9) 9 I Y i y A \star I J Z <t< td=""><td>С</td><td>End</td><td></td><td></td><td>F11</td><td>FF</td><td>:</td><td>FS</td></t<>	С	End			F11	FF	:	FS
F Delete Alt+ SI US L 2 3 4 5 6 7 0 SP 0 @ P $^{\land}$ pp 1 1 A Q a qq 2 " 2 B R b r 3 # 3 C S c s 4 \$ 4 D T d t 5 % 5 E U e u 6 & 6 F V f v 7 ' 7 G W g w 8 (8 H X h x 9) 9 I Y i y A $★$: J Z j z B + ; K [D	Enter	r		F12	CR		GS
L H 2 3 4 5 6 7 0 SP 0 @ P ` p 1 ! 1 A Q a q 2 " 2 B R b r 3 # 3 C S c s 4 \$ 4 D T d t 5 % 5 E U e u 6 & 6 F V f v 7 ' 7 G W g w 8 (8 H X h x 9) 9 I Y i y A $★$: J Z j z B + ; K [k { C , <	E	Inser	t	(Ctrl+	SO		RS
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	F	Delet	e	Alt+		SI		US
0 ∞ ∞ ∞ p 1 ! 1 A Q a q 2 " 2 B R b r 3 # 3 C S c s 4 \$ 4 D T d t 5 % 5 E U e u 6 & 6 F V f v 7 ' 7 G W g w 8 (8 H X h x 9) 9 I Y i y A \star : J Z j z B + ; K [k { C , < L \ I] D - = M] m ;	L H	2		3	4	5	6	7
2 " 2 B R b r 3 # 3 C S c s 4 \$ 4 D T d t 5 % 5 E U e u 6 & 6 F V f v 7 ' 7 G W g w 8 (8 H X h x 9) 9 I Y i y A \star : J Z j z B + ; K [k { C , <	0	SP	(0	@	Р	`	р
2 2 3 4 2 3 K 0 1 3 $\#$ 3 C S c s 4 $\$$ 4 D T d t 5 $\%$ 5 E U e u 6 $\&$ 6 F V f v 7 $'$ 7 G W g w 8 (8 H X h x 9) 9 1 Y i y A \star $:$ J Z j z B $+$ $;$ K $[$ k \langle C $,$ $<$ L \backslash I I B $+$ $;$ K $[$ k \langle C $,$ $<$ L \land I I B	1			1	А	Q	а	q
4 \$ 4 D T d t 5 % 5 E U e u 6 & 6 F V f v 7 ' 7 G W g w 8 (8 H X h x 9) 9 I Y i y A $★$: J Z j z B + ; K [k { C , <	2	u		2	В	R	b	r
5 % 5 E U e u 6 & 6 F V f v 7 ' 7 G W g w 8 (8 H X h x 9) 9 I Y i y A $★$: J Z j z B + ; K [k (C , <	3			3	С	S	с	s
6 & 6 F V f v 7 ' 7 G W g w 8 (8 H X h x 9) 9 I Y i y A \star : J Z j z B + ; K [k { C , <	4	\$		4	D	Т	d	t
7 ' 7 G W g w 8 (8 H X h x 9) 9 I Y i y A \star : J Z j z B + ; K [k { C , <	5	%	!	5	Е	U	е	u
3 7 3 3 1 1 1 1 1 9 $)$ 9 1 Y i y A \star $:$ J Z j z B $+$ $;$ K $[$ k \langle C $,$ $<$ L \backslash I $ $ D $ =$ M $]$ m \rangle E $$ $>$ N $^{\wedge}$ n \backsim	6		6		F	V	f	v
9) 9 I Y i y A \star : J Z j z B + ; K [k \langle C , < L \backslash I I D - = M] m \rangle E . > N \land n \backsim	7	'	7		G	W	g	w
A \star : J Z j z B + ; K [k (C , <	8	(8		Н	Х	h	x
B + ; K [k { C , <	9)	9		I	Y	i	У
C , < L \ I I D - = M] m > E . > N ^ n ∽	Α	*		:	J		j	z
D - = M] m } E . > N ^ n ∽	В	+	;		К	[k	
E . > N ^ n ~	С	,		<	L	١	1	
			1.	=	М	1	m	}
F / ? O _ O DEL	D	-						
	E		:	>	N			~

Appendix B. ASCII table

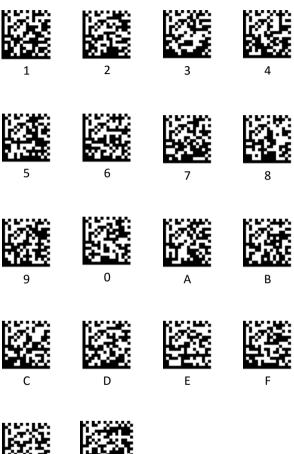
Appendix C. Default settings of bar codes

V: Enabled -: Unsupported Space: Disabled

	••			
Code Type	Read Enable	Checksum Verificatio n Enable	Checksum Transmissio 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)	-	-	-	
UPC-A	V		V	
UPC-E	V		V	
UPC-E1			V	
Discrete 2 of 5		_	_	
(DTF)		_		
Interleaved 2				
of 5 (125)				
MSI				
Codabar		-	-	
Codabar Chinese 2 of 5		-	-	
Korean 3 of 5		-	-	
Inverse 1D	V			
US Postnet			V	
051 lanet				
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