

IDAutomation SC5USB Wireless Scanner Programming Manual



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IDAutomation.com provides:

- Barcode Fonts
- Barcode Components
- Label Printing Software
- Barcode Readers

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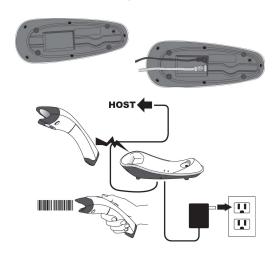
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Installation

The SC5-USB-W Wireless Imager is easy to install and use. Please see the following figure showing the steps to perform the installation.

* **Note**: Turn off the host computer before installation.



- 1. Connect the interface (I/F) cable to the cradle.
- 2. Connect the power cord to the cradle.
- 3. Route the I/F cable and power cord through the notch.
- 4. Connect the I/F cable to the host computer communication port.
- 5. Connect the AC adapter to the wall outlet.
- 6. Place the imager in the cradle and verify the charge LED is flashing. Charge the battery for at least 8 hours before the first use.
- 7. To verify operation, please link the imager with cradle first (Refer to "Wireless Connection" in page 12). Point the imager at the barcode and pull the trigger. The imager should emit a beep indicating that the barcode has been scanned and transmitted to the cradle successfully.

Connecting SC5-USB-W to PC with USB Dongle

SC5-USB-W is allowed to connect with PC via USB dongle.

 Scan the following barcodes to set scanner to Bluetooth connection mode, with PIN code as 0000 or refer to the manual page 23rd to set any four-to-six character PIN code assigned to the target Bluetooth device

Cradle/Dongle connection auto detection – The imager can be linked to either a cradle or other Bluetooth enabled devices.



Set PIN code to 0000

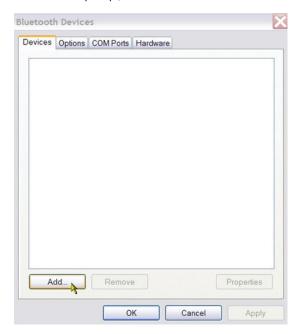


After well-connecting Bluetooth dongle to PC, find the blue-tooth sign on Taskbar; double-click on it to bring out the Bluetooth Devices prompt.

After well-connecting USB dongle to PC, find the blue-tooth sign on Taskbar; double-click on it to bring out the Bluetooth Devices prompt. (Or go to Control Panel – Bluetooth Device...)



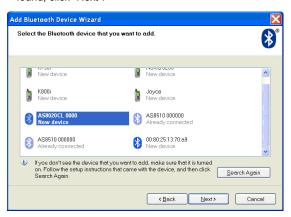
Within the prompt, click "Add".



3. Check the option, "My device is set up and ready to be found" and click" Next".



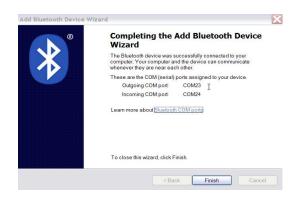
4. Select "SC5-USB-W" among the Bluetooth devices found; click "Next".



Select "Don't use a passkey" and click "Next". The Bluetooth connection will start to install the Bluetooth device for SC5-USB-W:



6. As it prompts, "Completing the Bluetooth Device Wizard", find which COM ports is assigned. The following example lists COM23 as the Outgoing port, and COM24 as Incoming port; your actual COM ports will depend on what's assigned on your PC. Click "Finish".



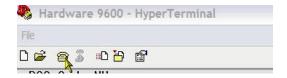
 Open HyperTerminal. Set COM1's Baud Rate as 9600 to communicate with SC5-USB-W (whose default baud rate is 9600):



8. Select COM23 (depending on your Outgoing COM port) to connect. Click "OK".

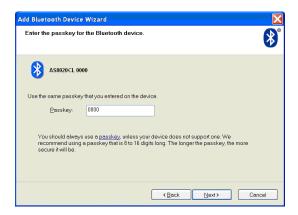


9. Click on "Dial".



10. The system will show a message on Taskbar asking to click on the Bluetooth sign on taskbar.

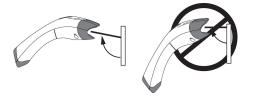
After clicking on it, the wizard will prompt as below; enter 0000 (SC5-USB-W default PIN code) within the Passkey field; click "Next".



Now the installation and setups have been completed, you may start to scan barcodes to transmit data to HyperTerminal on PC.

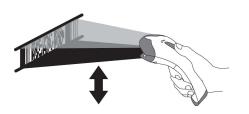
How to Scan

 The imager must be pointed at slight angle to the barcode so that the light reflected off the barcode can be seen by the imager. Do not hold the imager perpendicular to the barcode.



The scan line must cross the entire barcode. The imager can not read the barcode data without seeing the entire barcode.

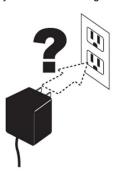




Troubleshooting

If the imager can not operate properly, the following checks should be performed:

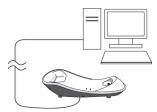
 The cradle uses an external power supply and the external power supply has failed, the imager will not operate. Change the power supply with a known good power supply and reset the imager.



 Verify the interface cable is securely connected to the host computer. Consult your technical support personnel or refer to your host system manual to verify the proper connection for the imager.



 Verify the interface cable is securely connected to the cradle



4. Check that the barcodes are of sufficient quality to be recognized by the imager. Wrinkled, smudged, or torn labels will cause the imager to not read at all. Scan a known good label to check the imager's read operation.



 Ensure that the cradle's interface type is compatible with the host computer by consulting your host system manual.



Wireless Connection Linking the imager with the cradle

Follow these instructions to link the two devices:

- Connect power to the cradle. The radio LED (marked with a light symbol) will blink amber and the cradle will beep.
- To ensure the cradle is unlinked from any other imager, check if the cradle send inquiry beep or not (see Inquiry Beep Control in page 24th).
- Read the link label on the bottom of the cradle with the imager. The imager will sound a good read beep and the LED will flash amber.
- Re-place the imager in the cradle to continue the charge.

Once an imager is linked to a cradle, they will remain linked until specific action is taken to unlink them (see Unlinking). They will remain linked if the cradle is unplugged, if the battery is removed from the imager or if the entire charge is used up, and if the imager is taken out of range of the cradle. Under normal operation, scanning of the link label will only be required once in the life of the product.

Unlinking

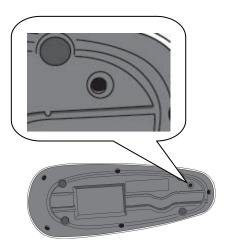
There are three ways to unlink an imager from a cradle:



Force imager to disconnect and sleep

- Scan the "Force imager to disconnect and sleep" barcode Reading the unlink barcode above while the imager is in range of the cradle will break the link between the two devices and allow another imager to link to the cradle. It will also have the imager in Deep Sleep Mode. If the barcode is read when the imager is out of range of its linked cradle, the imager will unlink, but the cradle will remain linked to the imager and will not allow another imager to be linked to it. In this case, you may perform the item 2 below to link another imager.
- Scan the Link Label and put on the original cradle –
 If the cradle is linked with an imager and the original pair
 was stopped by out of range of the cradle or out of
 battery of the imager, scan the link label of the cradle
 with a new imager and then put on the cradle, the cradle
 will drop the original pair and establish a new link with
 the new imager.
- 3. Scan the Link Label on an alternate cradle —
 Scanning the link label on a cradle will drop the link
 between the original pair and establish a link between
 the imager and new cradle. If the new link is performed
 within range of the old cradle, it is free to establish a link
 to the next imager that reads its link label. If it is done
 outside of the range of the old cradle, it retains its old
 link and will not allow a new imager to link to it until a
 new imager scan the link label and put on the cradle.

- 4. Push the "Reset" button on the bottom of cradle If the cradle is linked with an imager and in range, pushing the "Reset" button (for about 2 seconds) on the bottom of cradle will drop the link between the devices. If the button is pushed while the imager is out of range, the cradle will unlink and make itself available to other imagers. The scanner will not drop its link with the cradle automatically, but can be linked to any other cradle by reading its link label.
- * **Note**: If just push the button with a short time (less than one second), a "Paging" feature will be performed to page the imager which was linked with the cradle.



Battery Charging

The imager contains a 1000mAh Lithium-lon rechargeable battery. A full charged battery will provide up to 55,000 scans over a 15 hours period. Actual charge life on the imager will depend on the configuration of how the imager is configured via the programmable feature in this manual; in particular, **Deep Sleep Mode** settings can impact battery life.

When the imager is placed in the cradle, the battery will automatically charge. While charging is taking place, the charging LED (marked with a battery symbol) will blink green. When the battery is fully charged, the charging LED will stay on a solid green.

If there is an error in charging either with a failure in the charging circuit or with a failure of the battery, the charging LED will flash red. When this happens, the battery needs to be replaced.

How to Change the Battery

In case the contained battery inside the imager needs to be replaced, please follow the procedures below:



1. Loosen the screw at the bottom of the imager.



2. Take off the battery cover out of the imager.



Disconnect the battery cable connector from the main board.



4. Remove the used battery from the battery container.



5. Use a new battery pack and replace the used one.



6. Place the new battery into the battery container.



7. Connect the battery cable connector to the main board.



8. Put the battery cover back to the imager handle.



9. Fasten the screw to the imager.

Note: DO NOT touch the PCBA inside the imager when replacing the battery. Improper operation may damage the imager.

Wireless Features

The SC5-USB-W Wireless model includes an imager and a cradle. When the imager and cradle are linked together, the imager will read and decode barcodes and transmit them via a Wireless radio to the cradle. The cradle will then transmit the barcode data to the host computer over the host cable. The host interfaces available from the cradle are RS-232, Keyboard wedge, and USB as a normal corded imager.

Auto Update

When this feature is enabled, an imager and its linked cradle can automatically ensure they stay in sync with regard to firmware and/or configuration. This is accomplished by the linked imager and cradle comparing firmware version number and configuration file check sum. If either is different, the cradle will automatically update the imager with its firmware/configuration.

If the units are linked, any changes made to the cradle's configuration through the scan utility software will automatically be sent to the imager at the completion of the programming session. By the same token, any changes made to the linked imager's configuration will be transmitted to the cradle at the end of the programming session.

The following options are available for Auto Update:

 Enable configuration and firmware auto update – Allows both configuration and firmware updating (Default).



 Enable configuration auto update only – Allows only configuration updating.



 Enable firmware auto update only – Allows only firmware updating.



Disable auto update – No automatic updates will be performed.



Deep Sleep Mode

The WIRELESS imager can be placed into **Deep Sleep Mode** after this programmed duration (since the units' last scanning activity). Press its trigger to wake the imager form this mode.

• Disable Deep Sleep Mode (Default)



 Duration 10 minutes - Force imager into deep sleep mode if there is no barcode read in 10 minutes.



 Duration 30 minutes - Force imager into deep sleep mode if there is no barcode read in 30 minutes.



 Duration 60 minutes - Force imager into deep sleep mode if there is no barcode read in 60 minutes.



 Duration 90 minutes - Force imager into deep sleep mode if there is no barcode read in 90 minutes.



Wireless Connectivity

The SC5-USB-W can be linked to any Bluetooth (BT) enabled device which can accept such a connection with other devices. To implement this feature, user should set the imager to "Cradle/Dongle connection auto detection" first. And then set the PIN code to 0000 assigned to the target Bluetooth device. In this case, the PIN code of the Bluetooth enabled device should be set to 0000 to be identical with your imager.

 Cradle connection only – The imager can be used only with cradle (Default).



 Cradle/Dongle connection auto detection – The imager can be linked to either a cradle or other Bluetooth enabled devices.



Set PIN code to 0000



Note: The imager only support "Serial Port Profile" under "Dongle connection"

Wireless Connectivity (continued)

User is also allowed to set any four- to six-character PIN code assigned to the target Bluetooth device using the setting procedures below:

STATE	CODE		
Cradle/Dongle connection auto detection	*\$%-1AB01%%		
Program	*\$%+PRO*		
Begin PIN setting			
PIN no. (Set 4~6 character)			
	/1 */2*		
	/4		
	10°		
End PIN setting			

Inquiry Beep Control

When the cradle is not linked to an imager, the Radio LED will blink amber and the cradle will beep. This beep can be disabled or reconfigured to sound for different durations by using the following programming barcodes.

• Disable inquiry beep



• Inquiry beep continuously (Default)



Inquiry beep every 10 seconds



Inquiry beep every 20 seconds



• Inquiry beep every 30 seconds



• Inquiry beep every 40 seconds



Inquiry beep every 50 seconds



• Inquiry beep every 60 seconds



• Inquiry beep every 70 seconds



Cradle Beep Loudness Control

The beep loudness of cradle can be defined with the following levels.

Cradle beep off



Level 1



• Level 2



Level 3 (Default)



• Level 4



Level 5



Level 6



• Level 7



Additional Features

Here list three additional features of SC5-USB-W wireless imager for the convenience of use to users.

Download firmware from the cradle



 Download configuration parameters from the cradle



 Force cradle to reset the configuration – This feature will also force imager to reset the configuration to factory default.



Note: To meet the regulation of air transportation, the wireless imager should disconnect with the cradle during shipment. All SC5-USB-W wireless imagers are suggested to scan the following command before packaging into boxes and ship to customers.



Force imager to disconnect and sleep

Default setting
For each barcode shown as below:

For each bal	Loue SI	IUWII AS DI	CIOW.	
Code Type	Read Enable	Checksum Verification Enable	Checksum Transmission Enable	Code ID
UPC-A	V	V	V	Α
UPC-E	V	V	V	Е
EAN-13	V	V	V	F
EAN-8	V	V	V	FF
Code-39	V			*
Interleaved	V			:
2 of 5	V			ı
Industrial				:
2 of 5		-	-	I
Matrix 2 of 5	***************************************			В
Codabar				%
Code-128	٧	V		#
Code-93	***************************************	V two digits		&
Code-11	•••••	V One digit		0
MSI/Plessey	••••••	V		@
UK/Plessey	••••••	V		@
Telepen	•••••••••			S
Standard 2 of 5	••••••	V	V	i
China Post	***************************************			t
Italian	••••••			
Pharmacode.				р
Code-16K	***************************************	-	-	
PDF417	V	-	-	
EAN UCC	••••••	***************************************		
Composite		-	-	RC
Databar	•••••			
(RSS-14)				R4
Databar	••••••			
(RSS-Limited)				RL
Databar	•••••			DV
(RSS-Expanded)				RX
Micro-PDF	••••••••••	-	-	U

Specifications

SC5-USB-W				
Specification	Model SC5-USB-W			
Operational				
Light Source	630 nm Visible Red LED			
Optical System	2048 pixel CCD			
	(Charge-coupled device)			
Depth of Scan Field	0~270mm (CODE 39, PSC=90%,			
	20mil)			
	0~180mm for 13mil			
	0~60mm for 5mil			
	5mm~50mm for 4mil			
Scan Speed	300 scans/sec			
Resolution	0.1mm (4mil) Code39, PCS=90%			
Print Contrast	30% or more			
Scanning Angle	Front: 60° Rear: 60° Yaw: 70°			
Decode Capability	Auto-discriminates all standard			
	barcodes and some 2D symbologies			
	including PDF-417 and RSS code;			
	Other symbologies can be ordered			
	optionally			
Beeper Operation	7 tones or no beep			
Indicator on imager	Green & Red led			
Mechanical				
Length	187 mm			
Width-handle	35 mm			
Width-head	75 mm			

Depth-handle	33 mm	
Depth-head	44 mm	
Weight	Less than 200g (with a battery)	
Case material	ABS (over molded at contact points)	
Cushion material	Double injection	
Cradle interface	RS232, Keyboard wedge, USB	
Electrical		
Input Voltage (Cradle)	5 VDC ± 10% VDC	
Power - Operating (Cradle)	500 mW	
Power – Standby (Cradle)	350 mW	
Current – Operating	100 mA	
(Cradle)		
Current – Standby	70 mA	
(Cradle)		
Charge Current (Cradle)	600mA	
Input Voltage (Imager)	3.4V ~ 4.2V	
Power - Operating (Imager)	925 mW	
Power – Standby	50 114	
(Imager)	59 mW	
Current – Operating	250 mA	
(Imager)		
Current – Standby	16 mA	
(Imager)		

Current – Sleep	2 mA	
(Imager)		
Light Level	Up to 45000 Lux	
Shock (Imager)	1.5m drop onto concrete	
Shock (Cradle)	90cm drop onto concrete	
Contaminants	Seals to resist airborne particulate	
	contaminants (IP42)	
Ventilation	None required	
Programming		
Programming	Manage (Dan diamana)	
method	Manual (Reading special barcode)	
Program upgrade	Enabled by built-in flash memory	
Programmable	Code type selection, check digit	
characteristics	selection Decoding option Decoding	
	option Transmitted character delay,	
	Header selection, trailer selection,	
	message suffix, good read beep tone	
	and volume, scanner trigger selection	
	Keyboard emulation type	
	(intermessage delay, keyboard type	
	and keyboard language)	
	Serial interface type (ACK/NAK,	
	Xon/Xoff, RTS/CTS, good read LED	
	control, start/stop bits)	

Remark. Current are marked as RMS (Root mean square)

Indications of SC5-USB-W Imager:

	Status	Green LED	Red LED	Orange LED	Beeper
	Link	Blink			A special
	established	once			beep
	Hardware fail		Flash		
	Program download	Flash			
	Program checksum fail		Flash		
LED	Data transmitting	ON			High freq. Beep for 300msec
	Data trans. Fail		ON for 300msec		Error beep
	Data trans. OK	ON for 200msec			Good beep
	Low battery (<3.2V) (Trigger is pressed)			Flash	

Cradle:

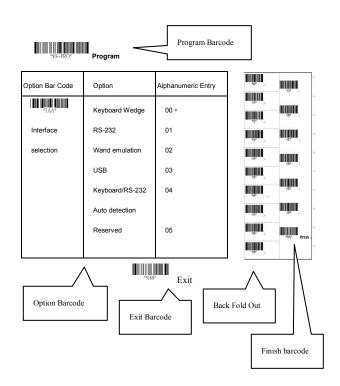
	ı			1	
	Status	Green LED	Red LED	Orange LED	Beeper
	Inquiry			Blink	Beeps once a second
	Connecting			Blink	
	Link established	ON			
	Hardware fail		Flash		
RF status	Data receiving from the scanner			ON for 0.5sec	
LED	Barcode data proof or transmitted				Good beep
	Data send to the host Fail				Error beep
	Program download	Flash			
	Program checksum Fail		Flash		
	Idle				
Battery	Charging	Blink			
LED	Battery full	ON			
	Battery/charger Fail		Blink		

Programming the SC5-USB-W

To program the SC5-USB-W, you must scan a series of programming barcode in the correct order. Fold out the back cover of this manual. You will see a table of alphanumeric barcodes, which are used to program the various options presented.

To program each option, you must:

- 1. Scan the **Program** barcode on the parameter setting part.
- Enter the option mode by scanning the Option Bar Code (also on the Parameter setting part).
- 3. To the right of the option barcode, the necessary alphanumeric inputs are listed. Scan these alphanumeric entries from the **back fold out** page. To confirm above steps, you must scan the **Finish** barcode on the back fold out page.
- Once you have finished programming. Scan the Exit barcode, listed on the lower right hand corner of each parameter setting part.



Interface Selection

This cradle comes in one model and supports interfaces such as keyboard wedge, RS232 serial wedge, and USB interface. In most of the cases, simply selecting an appropriate cable with a device code will work for a specific interface.

Interface selection: You can change factory interface default for other type interface. By plugging different cables, setting right interface, then the cradle will be changed to another interface. However, you must make sure which cable you need.

Keyboard/RS232/UBS Auto detection: By setting this function, it will automatically select the Keyboard wedge or RS-232 or UBS interface for user.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Keyboard Wedge	00
1AA	RS-232	01
Interface selection	USB	03
	Keyboard	
	/RS232/USB	04 *
	Auto detection	

Note: * -Default

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Keyboard wedge

As a keyboard interface, the cradle supports most of the popular PCs and IBM terminals. The installation of the wedge is a fairly simple process without any changes of software or hardware.

Keyboard Type: Select keyboard type connector of your host computer. Cradle must be selected to the appropriate host interface cable converter.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	IBM AT, PS/2	00 *
2AA	Reserved	01
Keyboard type	Reserved	02
	Reserved	03
	Reserved	04
	Reserved	05
	Reserved	06



Keyboard wedge

Keyboard Layout: The selecting of keyboard layout supports many country languages other than USA keyboard layout. First you need to confirm country language that you desire. In DOS, using command "keyb" to select the desirable keyboard layout or in WINDOWS entry "Control" then pops "Keyboard" to select country at "language" item. For details, please refer to your DOS or WINDOWS user's manual.

Keyboard Speed: By selecting, you can change output speed of data transmission to match with host computer. Generally, set 00 or 01 in working high speed. If some output characters of barcode have been lost, you may need to set 05 or 06 to match your host keyboard speed.

Function Key: Set Enable, imager can output code as pressing function-key in your application program while the barcode datas contain ASCII value between 0116 to 1F16. Refer to ASCII table.

Numeric Key: The Keypad has to be selected if your application program is only keypad numeric code acceptable. So, cradle will output code as press numeric keypad when it read numeric digit. (The keypad is in the right side of keyboard, and Num Lock control key is also on.) If Alt+Keypad is selected, the data characters will be transmitted as "Alt" + numbers. For example, when sending character "A", the actual sending will be "Alt"+65. It is also useful when using non-English OS and keyboard layout.



Program

Option Bar Code	Option	Alphanumeric
		Entry

	USA	* 00
2AB	Belgium	01
Keyboard layout	Danish	02
	France	03
	Germany	04
	Italian	05
	Portuguese	06
	Spanish	07
	Swedish	08
	Switzerland	09
	UK	10
	Latin American	11
	Japanese	12
	0-8	80-00
2AC	0 : high clock rate	03 *
Keyboard speed	8 : low clock rate	
	Disable	00
2AD	Enable	01 *
Function key		
	Alphabetic key	00 *
2AE	Numeric keypad	01
Alpha/Numeric key	(Num lock state	
	only)	
	Alt+Keypad	02



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Keyboard wedge

Caps Lock: By selecting Caps lock"ON" or Caps lock"OFF", imager can get Caps Lock status.

Power-on simulation: All of the PCs check the keyboard status during power-on selftest. It is recommended to Enable function if you are working without keyboard installation. It simulates keyboard timing and pass keyboard present status to the PC during power-on.

Inter-character delay: This delay is inserted after each data characters transmitted. If the transmission speed is too high, the system may not be able to receive all characters. Adjust it and try out suited delay to make system work properly.

Block transmission delay: It is a delay timer between barcode data output. The feature is used to transfer continually with shorter barcode data or multi-field scanning.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Caps lock"ON"	00
2AF	Caps lock"OFF"	01 *
Caps lock		
	Disable	00 *
2AG	Enable	01
Power-on simulation		
	00-99 (msec)	00-99
2AH		02 *
Inter-character delay		
	00-99 (10 msec)	00-99
2AI		10 *
Block transmission		
delay		



RS-232

CTS: Clear To Send (Hardware Signal)
RTS: Request To Send (Hardware Signal)
Xon: Transmit On (ASCII Code 1116)
Xoff: Transmit Off (ASCII Code13 16)

Flow control:

None-The communication only uses TxD and RxD signals without regard for any hardware or software handshaking protocol.

RTS/CTS-If the cradle wants to send the barcode data to host computer, it will issue the RTS signal first, wait for the CTS signal from the host computer, and then perform the normal data communication. If there is no replied CTS signal from the host computer after the timeout (Response Delay) duration, the imager will issue a 5 warning beeps.

Xon/Xoff- When the host computer is unable to accept data, it sends a Xoff code to inform the cradle to suspend data transmission, and Xon to continue.

ACK/NAK- When the ACK/NAK protocol is used, the cradle waits for an ACK (acknowledge) or (not acknowledge) from the host computer after data transmission, and will resend in response to a NAK.

Inter-character delay: It is delay time between data character's data output. It is also same as Inter-char. delay of keyboard wedge.

Block transmission delay: It is a delay time between barcode data output. It is also same as Block transmission delay of keyboard wedge.

Response delay: This delay is used for serial communication of the cradle to waiting for handshaking acknowledgment from the host computer.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	None	00 *
3AA	RTS/CTS	01
Flow control	Xon/Xoff	02
	ACK/NAK	03
	RTS/CTS bracket	04
	mode	
	00-99 (msec)	00-99
3AB		00 *
Inter-character delay		
	00-99 (10 msec)	00-99
3AC		00 *
Block transmission		
delay		
	00-99 (100 msec)	00-99
3AD		20 *
Response delay		



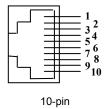


Program

Option Bar Code	Option	Alphanumeric
		Entry
	300 BPS	00
3AE	600 BPS	01
Baud rate	1200 BPS	02
	2400 BPS	03
	4800 BPS	04
	9600 BPS	05 *
	19200 BPS	06
	38400 BPS	07
	None	00 *
3AF	Odd	01
Parity	Even	02
	8 bits	00 *
3AG	7 bits	01
Data bit		
	One bit	00 *
3AH	Two bits	01
Stop bit		



Pin Assignments

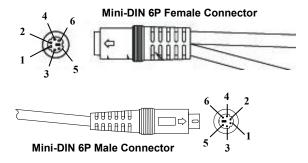


AS Series 10-pin RJ-45 Connector

Pin	RS-232	Keyboard
1	I/F	I/F
2	NA	NC
3	TXD	NC
4	NC	CLK / PC
5	GND	DATA / PC
6	CTS	DATA / KB
7	RXD	NC
8	RTS	CLK / KB
9	GND	GND
10	NC	GND

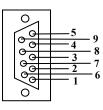
Keyboard Wedge PS/2 Connector (To Host Side):

Pin	Mini-DIN 6P Male	Mini-DIN 6P Female
1	DATA / PC	DATA / KB
2	NC	NC
3	GND	GND
4	VCC (+5V)	NA
5	CLK / PC	CLK / KB
6	NC	NC



RS-232 DB-9F Connector (To Host Side):

Pin	Definition
1	NC
2	TXD
3	RXD
4	NC
5	GND
6	NC
7	CTS
8	RTS
9	NC



Scan

Scanning mode:

Good-read off-The trigger button must be pressed to activate scanning. The light source of imager stops scanning when there is a successful reading or no code is decoded after the Stand-by duration elapsed.

Momentary-The trigger button acts as a switch. Press button to activate scanning and release button to stop scanning.

Alternate-The trigger button acts as a toggle switch. Press button to activate or stop scanning.

Timeout off-The trigger button must be pressed to activate scanning, and imager stops scanning when no code is decoded after the Stand-by duration elapsed.

Continue-Imager always keeps reading, and it does not matter when trigger button is pressed or duration is elapsed.

Test only-For test of scan performance only. It is improper to be utilized to check the accuracy of transmitted data.

Double read timeout: The imager will require a several times successful decoding to confirm the data when enabled. The more confirming times required, the more inhibitive miss-reading code will be shown. The Multi field scan Enable function won't be able to work if set Double confirm.

Double confirm: If the barcode has been scanned twice, then only the first barcode will be accepted.

Supplement Check Counter: It will be more reliable to read the barcode with extension (supplement) like UPCE/A or EAN-8/13, but slow down the decoding speed when this counter is set more.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Good-read off	00
7AA	Momentary	01 *
Scanning mode	Alternate	02
	Timeout off	03
	Continue	04
	Test only	05
	01-99 (second)	00-99
7AB		06 *
Stand-by duration		
	01-99 (10 msec)	01-99
7AC		50 *
Double read timeout		
	00-09	00-09
7AD	(00: no double	00 *
Double confirm	confirm)	
	00-64	00-64
7AE	(verifications)	30 *
Supplement Check		
Counter		



Scan

Global min./max. code length: These are to define the min/max readable code length of all symbologies. Code length less than min. code length or more than max. code length will not be read. In popular, you can set the same value for both min. and max. reading length to force the fixed length barcode decoded. The values of setting have no effect on certain symbologies with fixed length. You can specify the settings for individual barcode by the min/max code length setting of each barcode.

- **Notes** 1): Please set the min/max length if you have special demand for individual barcode.
 - 2): Include the Check sum digits if you want to set Global min/max code length.

Inverted image scan: Set **Enabled** the imager will scan both black/white barcode with white/black background.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	00-99	00-99
7AF		04 *
Global min. code length		
	00-99	00-99
7AG		99 *
Global max. code length		
	Disable	00 *
7AH	Enable	01
Inverted image scan		



Indication

Power on alert: After power-on the cradle it will generate an alert signal to indicate a successful self-test.

LED indication: After each successful reading, the LED above the imager will light up to indicate a good barcode reading.

Beeper indication: After each successful reading, the imager will beep buzzer to indicate a good barcode reading, and its Beep loudness, Beep tone freq. and Beep tone duration are adjustable.

Beep loudness/Beep tone freq./Beep tone duration: You can adjust Beep Loudness, Beep tone and Beep duration for a good reading upon favorite usage.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00
5AA	Enable	01 *
Power on alert		
	Disable	00
5AB	Enable	01 *
LED indication		
	Disable	00
5AC	Enable	01 *
Beeper indication		
	00-07	00-07
5AD	(00 - off)	07 *
Beep loudness		
	00-99 (100Hz)	00-99
5AE		26 *
Beep tone freq.		
	00-99 (10 msec)	00-99
5AF		08 *
Beep tone duration		



UPCA

Format

Leading	Data Digits	Check
Zero	(11 Digits)	Digit

Read: Enable or disable the read function.

 $\textbf{Check-sum transmission:} \ \, \textbf{By setting} \ \, \overline{\textbf{Enable}}, \ \, \textbf{checks sum}$

will be transmitted.

Truncate leading/ending: The leading or ending digits of barcode data characters can be truncated when these values are set to non-zero. It will beep instead of reading anything when the truncate value is more than the barcode data digits or the value of Truncate Leading is overlapped with that of the Ending. The maximum value of truncate digits is 15.

Code ID setting: Code ID setting is a character used to represent the symbol upon a succeeding reading. A Code ID setting is prefixed to the data begin or end transmitted if the feature is selected. If you want application to transmit Code ID, you must set Code ID transmission to Enable first. Refer to Code ID transmission.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00
NAA	Enable	01 *
Read		
	Disable	00
NAC	Enable	01 *
Check-sum transmission		
	0-15	00-15
NAF		00 *
Truncate leading		
	0-15	00-15
NAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
NAH	code	< A > *
Code ID setting		



UPCA

Insertion group number selection: The imager offers max. two insertion groups for one symbology. By setting one or two digits to indicate which insertion group you want to insert. You may refer to Character insertion. The function is to insert specific characters as a group into transmitted data of selected symbologies. Enable the group insertion by selecting the group number.

Example: Group 2 \rightarrow set 02 or 20. Group 1 and 4 \rightarrow set 14 or 41.

- **Notes** 1): Group number set to "0" means that no group insertion required.
 - Details about the Insert Group settings please refer to page 123rd ~126th, and page 132nd ASCII code table

Supplement digits: The Supplement digits barcode is the supplemental 2 or 5 characters for WPC code.

Format

	Data Digits (11 Digits)	Cneck	Supplement Digits 2 or 5 or
2010	(11 Digita)	Digit	UCC / EAN 128

Truncation / Expansion: The leading "0" digits of UPCA data characters can be truncated when the function is enabled.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	00-44	00-44
NAI		00 *
Insert group number		
selection		
	None	00 *
NAJ	2 digits	01
Supplement digits	5 digits	02
	2,5 digits	03
	UCC/EAN 128	04
	2, UCC/EAN 128	05
	5, UCC/EAN 128	06
	All	07
	None	00
NAK	Truncate leading	01 *
Truncation/	zero	
Expansion	Expand to EAN13	02



UPCE

Read: Format

Leading	Data Digits (6	Check
Zero	Digits)	Digits

Check-sum transmission: By setting Enable, checks sum will be transmitted.

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code ID setting: Refer to Code ID setting of UPCA.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00
OAA	Enable	01 *
Read		
	Disable	00
OAC	Enable	01 *
Check-sum		
transmission		
	0-15	00-15
OAF		00 *
Truncate leading		

OAG	0-15	00-15
		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
OAH	code	<e>*</e>
Code ID setting		



UPCE

Insertion group number selection: Refer to page 57th

Insertion group number selection of UPCA.

Supplement digits:

Format

	Data Digits Check	Supplement Digits 2 or 5 or	
Zero	(6 Digits)	Digit	UCC/EAN 128

Expansion: The expansion function is used only for UPCE and EAN-8 code reading. It extends to 13-digits with "0" digits

when the feature is enabled. Example: Barcode "0123654" Output: "0012360000057"

UPCE-1: Enable imager to read UPCE with leading digit 1.



Program

Option Bar Code	Option	Alphanumeri
		c Entry
	00-44	00-44
OAI		00 *
Insert group number		
selection		

	None	00 *
OAJ	2 digits	01
Supplement digits	5 digits	02
	2,5 digits	03
	UCC/EAN 128	04
	2, UCC/EAN 128	05
	5, UCC/EAN 128	06
	All	07
	None	00 *
OAK	Truncate leading	01
Truncation/Expansion	zero	
	Expand to EAN13	02
	Expand to UPCA	03
	Disable	00 *
OAL	Enable	01
Expansion		
	Disable	00 *
OAM	Enable	01
UPCE-1		



EAN-13

Read: Format

Data Digits (12 Digits)	Check Digits
-------------------------	--------------

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Truncate leading zero: Refer to Truncation / Expansion of UPCA.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00
GAA	Enable	01 *
Read		
GAC	Disable	00
	Enable	01 *
Check-sum		
transmission		
GAF	0-15	00-15
		00 *
Truncate leading		

	0-15	00-15
GAG		00 *
Truncate ending		



EAN-13

Code ID setting: Refer to page 57th Insertion group number selection of UPCA.

Insertion group number selection: Refer to Insertion group selection of UPCA.

Supplement digits:

Format

Data Digits (12 Digits)	Check Digits	Supplement Digits 2 or 5 or
(= 2.9)	2.9.10	UCC / EAN 128

ISBN/ISSN: The ISBN (International Standard Book Number) and ISSN (International Standard Serial Number) are two kinds of barcode for book and magazines. The ISBN is 10 digits with leading "978" and the ISSN is 8 digits with leading "977" of the "EAN-13" symbology.

Example: Barcode "9789572222720" - Output: "9572222724" Example: Barcode "9771019248004" - Output: "10192484"



\$%+PRO

Program

Option Bar Code	Option	Alphanumeric
		Entry
	00-ffH ASCII	00-ffH
GAH	code	<f>*</f>
Code ID setting		
	00-44	00-44
GAI		00 *
Insert group number		
selection		

	None	00 *
GAJ	2 digits	01
Supplement digits	5 digits	02
	2,5 digits	03
	UCC/EAN 128	04
	2, UCC/EAN 128	05
	5, UCC/EAN 128	06
	All	07
	Disable	00 *
GAL	Enable	01
ISBN/ISSN		
conversion		
	00-ffH ASCII	00-ffH
GAM	code	< >*
ISBN ID setting		



EAN-8

Read: Format

Data Digits	Check
(7 Digits)	Digits

 $\begin{tabular}{ll} \textbf{Check-sum transmission:} By setting \hline \textbf{Enable}, checks sum \\ \end{tabular}$

will be transmitted.

Truncate leading/ending: Refer to Truncate leading/ending

of UPCA.

Code ID setting: Refer to Code ID setting of UPCA. **Insertion group number selection:** Refer to page 57th

Insertion group number selection of UPCA.



+PRO* Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00
FAA	Enable	01 *
Read		
	Disable	00
FAC	Enable	01 *
Check-sum		
transmission		
	0-15	00-15
FAF		00 *
Truncate leading		

	0-15	00-15
FAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH, 00-ffH
FAH	code	< FF > *
Code ID setting		
	00-44	00-44
FAI		00 *
Insert group number		
selection		



EAN-8

Supplement digits: Format

Data Digita	Digits Check Digits	Supplement Digits
		2 or 5 or
(7 Digits)		UCC/EAN 128

Truncation / Expansion: Refer to Truncate Leading zero of

UPCE.

Expansion: Refer to Expansion of UPCE.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	None	00 *
FAJ	2 digits	01
Supplement digits	5 digits	02
	2,5 digits	03
	UCC/EAN 128	04
	2, UCC/EAN 128	05
	5, UCC/EAN 128	06
	All	07
	None	00 *
FAK	Truncate leading	01
Truncation /	zero	
Expansion	Expand to EAN13	02

	Disable	00 *
FAL	Enable	01
Expansion		



Code 39

Read: Format

Start	Data Digits	Checksum	End
"★"	(Variable)	(Optional)	"★"

Check-sum verification: The checksum of Code-39 is optional and made as the sum module 43 of the numerical value of the data digits.

Check-sum transmission: By setting Enable, checksum will be transmitted.

Max./Min. code length: Each symbology has own Max./Min. Code Length. They can be set to qualify data entry. If their Max./Min. Code Length is zero, the Global Min./Max. Code Length is in effect. The length is defined as to the actual barcode data length to be sent. Label with length exceeds these limits will be rejected. Make sure that the Minimum length setting is no greater than the Maximum length setting, or otherwise all the labels of the symbology will not be readable. In particular, you can see the same value for both Minimum and Maximum reading length to force the fixed length barcode decoded.

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code Id setting: Refer to Code ID setting of UPCA.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00
BAA	Enable	01 *
Read		

	Disable	00 *
BAB	Enable	01
Check-sum		
verification		
BAC	Disable	00 *
BAC	Enable	01
Check-sum		
transmission		
	00-64	00-64
BAD		00 *
Max. code length		
	00-64	00-64
BAE		00 *
Min. code length		
	0-15	00-15
BAF		00 *
Truncate leading		
	0-15	00-15
BAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
BAH	code	< * >
Code ID setting		



Code 39

Insertion group number selection: Refer to page 57th Insertion group number selection of UPCA.

Format: The Full ASCII Code-39 is an enhanced set of Code-39 that is the data with total of 128 characters to represent Full ASCII code. It is combined one of the digits +, %, \$ and/ with one of the alpha digits (A to Z).

Append: This function allows several symbols to be concatenates and be treat as one single data entry. The imager will not transmit the embedded appending code (space for Code-39). If Enable and other symbols were read again with the appended code, then codes will be transmitted without Code ID, Preamble and Prefix. When a symbol was decoded without the appended code, the data will be transmitted without Code ID and Prefix, but the Postamble Suffix codes are appended. This function is used when the first number of code 39 is a space. Example: □123456.

Start/end transmission: The start and end characters of Code-39 are "★". You can transmit all data digits including two "★"



Program

Option Bar Code	Option	Alphanumeric
		Entry
	00-44	00-44
BAI		00 *
Insert group number		
selection		

	Standard	00 *
BAJ	Full ASCII	01
Format		
	Disable	00 *
BAK	Enable	01
Append		
	Disable	00 *
BAM	Enable	01
Start/end		
transmission		



Interleaved 2 of 5

Read: Format

Data Digits	Checksum
(Variable)	(Optional)

Check-sum verification: The checksum is made as the sum module 10 of the numerical values of all data digits.

Check-sum transmission: By setting Enable, checksum will be transmitted.

Max./Min. code length: Refer to Max./Min. code length of Code-39.

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code ID setting: Refer to Code ID setting of UPCA. **Insertion group number selection:** Refer to page 57th Insertion group number selection of UPCA.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00
IAA	Enable	01 *
Read		
	Disable	00 *
IAB	Enable	01
Check-sum		
verification		

	Disable	00 *
IAC	Enable	01
Check-sum		
transmission		
	00-64	00-64
IAD		00 *
Max. code leading		
	00-64	00-64
IAE		00 *
Min. code leading		
	0-15	00-15
IAF		00 *
Truncate leading		
	0-15	00-15
IAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
IAH	code	< i > *
Code ID setting		
	00-44	00-44
IAI		00 *
Insert group number		
selection		



Industrial 2 of 5

Read: Format

Data Digits	Checksum
(Variable)	(Optional)

Max./Min. code length: Refer to Max./Min. code length of Code-39.

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code Id setting: Refer to Code ID setting of UPCA.

Insertion group number selection: Refer to page 57th Insertion group number selection of UPCA.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
HAA	Enable	01
Read		
	00-64	00-64
HAD		00 *
Max. code length		
	00-64	00-64
HAE		00 *
Min. code length		

	0-15	00-15
HAF		00 *
Truncate leading		
	0-15	00-15
HAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
HAH	code	< i > *
Code ID setting		
	00-44	00-44
HAI		00 *
Insert group number		
selection		



Matrix 2 of 5 Eur

Read: Format

Data Digits	Checksum
(Variable)	(Optional)

Checksum Verification: The checksum is made as the sum module 10 of the numerical values of all data digits.

Checksum Transmission: By setting Enable, checksum will

be transmitted.

Max./Min. code length: Refer to Max./Min. code length of

Code-39.

Truncate leading/ending: Refer to Truncate leading/ending

of UPCA.

Code ID setting: Refer to Code ID setting of UPCA. **Insertion group number selection:** Refer to page 57th

Insertion group number selection of UPCA.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
PAA	Enable	01
Read		
	Disable	00 *
PAB	Enable	01
Checksum		
Verification		

	Disable	00 *
PAC	Enable	01
Checksum		
Transmission		
	00-64	00-64
PAD		00 *
Max. code length		
	00-64	00-64
PAE		00 *
Min. code length		
	0-15	00-15
PAF		00 *
Truncate leading		
	0-15	00-15
PAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
PAH	code	*
Code ID setting		
	00-44	00- 44
PAI		00 *
Insert group number		
selection		



Codabar

Read: Format

Start Data Digits (Variable) Checksum (Optional) End
--

Checksum Verification: The checksum is made as the sum module 16 of the numerical values of all data digits.

Checksum Transmission: By setting Enable, checksum will be transmitted.

Max./Min. code length: Refer to Max./Min. code length of Code-39.

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code Id setting: Refer to Code ID setting of UPCA.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
EAA	Enable	01
Read		
	Disable	00 *
EAB	Enable	01
Checksum		
Verification		

	Disable	00 *
EAC	Enable	01
Checksum		
Transmission		
	00-64	00-64
EAD		00 *
Max. code length		
	00-64	00-64
EAE		00 *
Min. code length		
	0-15	00-15
EAF		00 *
Truncate leading		
	0-15	00-15
EAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
EAH	code	< % > *
Code ID setting		



Codabar

Insertion group number selection: Refer to page 57th

Insertion group number selection of UPCA.

Start/End type: The Codabar has four pairs of Start/End pattern; you may select one pair to match your application. **Start/End Transmission:** Refer to Start/End Transmission of

Code 39.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	00-44	00-44
EAI		00 *
Insert group		
selection		
	ABCD/ABCD	00 *
EAJ	abcd/abcd	01
Start/End type	ABCD/TN*E	02
	Abcd/tn*e	03
	Disable	00
EAK	Enable	01 *
Start/End		
transmission		



Read: Format

Data Digits	Checksum
(Variable)	(Optional)

Checksum Verification: The checksum is made as the sum

module 103 of all data digits.

Checksum Transmission: By setting Enable, checksum will

be transmitted.



%+PRO* Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00
DAA	Enable	01 *
Read		
	Disable	00
DAB	Enable	01 *
Checksum		
Verification		
	Disable	00 *
DAC	Enable	01
Checksum		
Transmission		



Max./Min. code length: Refer to Max./Min. code length of Code-39.

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code ID setting: Refer to Code ID setting of UPCA. **Insertion group number selection:** Refer to page 57th Insertion group number selection of UPCA.

Format: The Code-128 can be translated to UCC/EAN-128 format if it starts with FNC1 character. The first FNC1 will be translated to "]C1",and next to be a field separator code as <GS>(1D16).

1C1	Data	<gs></gs>	Data	Checksum

Append / FNC4 control: When Append function is enabled, it won't show the data immediately if imager read the barcode includes FNC2 code. It will show all data until it read the barcode, which doesn't have FNC2 code. When FNC4 is enabled, the imager will send the data with FNC4 code. If the FNC4 is ignore, the imager will send the data without FNC4 code.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	00-64	00-64
DAD		00 *
Max. code length		
	00-64	00-64
DAE		00 *
Min. code length		

	0-15	00-15
DAF		00 *
Truncate leading		
	0-15	00-15
DAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
DAH	code	<#>*
Code ID setting		
	00-44	00-44
DAI		00 *
Insert group number		
selection		
	Standard	00 *
DAJ	UCC/EAN-128	01
Format		
	Disable/Enable	00 *
DAK	Enable/Enable	01
Append / FNC4 control	Disable/Ignore	02
	Enable/Ignore	03



ISBT enable: This feature is commonly used in a blood bank for identification.

ISBT concatenation timeout: This feature is to setup the timeout duration of ISBT concatenation.

Field separator code: This feature is only used for UCC/EAN-128 format. This <u>Field separator code</u> means you can reassign second or after a FNC1 for your usage. The default of ASCII code is <GS>(1D₁₆).

UCC/ EAN 128 ID setting: Refer to Code ID setting of UPCA.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
DAL	Enable normal	01
ISBT enable		
	00-ffH ASCII	00-ffH
DAM	code	1DH *
Field separator code		
	00-ffH ASCII	00-ffH
 	code	<#>*
UCC/EAN-128		
ID setting		



Read: Format

Data Digits	Checksum1	Checksum2
(Variable)	(Optional)	(Optional)

Checksum Verification: The checksum is made as the sum module 47 of the numerical values of all data digits.

Checksum Transmission: By setting Enable, checksum

will be transmitted.



+PRO* Progr

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
CAA	Enable	01
Read		
	Disable	00
CAB	Enable	01 *
Checksum	(two digits)	
Verification		
	Disable	00 *
CAC	Enable	01
Checksum		
Transmission		



Max./Min. code length: Refer to Max./Min. code length of Code-39.

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code Id setting: Refer to Code ID setting of UPCA.

Insertion group number selection: Refer to page 57th Insertion group number selection of UPCA.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	00-64	00-64
CAD		00 *
Max. code length		
	00-64	00-64
CAE		00 *
Min. code length		
	0-15	00-15
CAF		00 *
Truncate leading		
	0-15	00-15
CAG		00 *
Truncate ending		

	00-ffH ASCII	00-ffH
CAH	code	< & > *
Code ID setting		
	00-44	00-44
CAI		00 *
Insert group number		
selection		



Read: Format

Data Digits	Checksum1	Checksum2
(Variable)	(Optional)	(Optional)

 $\label{lem:checksum Verification:} \label{lem:checksum Verification:} \begin{picture}(200,0) \put(0,0){\line(0,0){100}} \pu$

sum module 11 of all data digits.

Checksum Transmission: By setting Enable, checksum1 and checksum2 will be transmitted upon your selected checksum verification method.

 $\textbf{Max./Min. code length:} \ \text{Refer to Max./Min. code length of}$

Code-39.

Truncate leading/ending: Refer to Truncate leading/ending

of UPCA.

Code ID setting: Refer to Code ID setting of UPCA. **Insertion group number selection:** Refer to page 57th

Insertion group number selection of UPCA.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
AAA	Enable	01
Read		
	Disable	00
AAB	One digit	01 *
Checksum	Two digits	02
Verification		

	Disable	00 *
AAC	Enable	01
Checksum		
Transmission		
	00-64	00-64
AAD		00 *
Max. code length		
	00-64	00-64
AAE		00 *
Min. code length		
	0-15	00-15
AAF		00 *
Truncate leading		
	0-15	00-15
AAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
AAH	code	<0>*
Code ID setting		
	00-44	00-44
AAI		00 *
Insert group number		
selection		



MSI/plessey

Read: Format

Data Digits	Checksum1	Checksum2
(Variable)	(Optional)	(Optional)

Checksum Verification: The MSI/Plessey has one or two optional checksum digits. The checksum is presented 3 kinds of method Mod10, Mod10/10 and Mod 11/10. The checksum1 and checksum2 will be calculated as the sum module 10 or 11 of the data digits.

Checksum Transmission: By setting Enable, checksum1 and checksum2 will be transmitted upon your selected checksum verification method.

Max./Min. code length: Refer to Max./Min. code length of

Code-39.

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code ID setting: Refer to Code ID setting of UPCA. **Insertion group number selection:** Refer to page 57th Insertion group number selection of UPCA.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
KAA	Enable	01
Read		
	Disable	00
KAB	Mod 10	01 *
Checksum	Mod 10/10	02
Verification	Mod 11/10	03

	Disable	00 *
KAC	Enable	01
Checksum		
Transmission		
	00-64	00-64
KAD		00 *
Max. code length		
	00-64	00-64
KAE		00 *
Min. code length		
	0-15	00-15
KAF		00 *
Truncate leading		
	0-15	00-15
KAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
KAH	code	< @ > *
Code ID setting		
	00-44	00-44
KAI		00 *
Insert group number		
selection		



UK/plessey

Read: Format

Data Digits	Checksum1+2
(Variable)	(Optional)

Checksum Verification: The UK/Plessey has one or two optional checksum digits. The checksum1 and checksum2 will be calculated as the sum module 10 or 11 of the data digits.

Checksum Transmission: By setting Enable, checksum will be transmitted.

Max./Min. code length: Refer to Max./Min. code length of Code-39.

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code ID setting: Refer to Code ID setting of UPCA. **Insertion group number selection:** Refer to page 57th Insertion group number selection of UPCA.



+PRO* Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
LAA	Enable	01
Read		
	Disable	00
LAB	Enable	01 *
Checksum		
Verification		

-		
	Disable	00 *
LAC	Enable	01
Checksum		
Transmission		
	00-64	00-64
LAD		00 *
Max. code length		
	00-64	00-64
LAE		00 *
Min. code length		
	0-15	00-15
LAF		00 *
Truncate leading		
	0-15	00-15
LAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
LAH	code	< @ > *
Code ID setting		
	00-44	00-44
LAI		00 *
Insert group number		
selection		



Telepen

Read: IATA (International Air Transport Association).

Checksum Verification: The checksum is presented as the

sum module 10 or 11 of the data digits.

Checksum Transmission: By setting Enable, checksum will

be transmitted.

Max./Min. code length: Refer to Max./Min. code length of

Code-39.

Truncate leading/ending: Refer to Truncate leading/ending

of UPCA.

Code ID setting: Refer to Code ID setting of UPCA. **Insertion group number selection:** Refer to page 57th

Insertion group number selection of UPCA.



+PRO* Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
MAA	Enable	01
Read		
	Disable	00 *
MAB	Enable	01
Checksum		
Verification		
	Disable	00 *
MAC	Enable	01
Checksum		
Transmission		

	00-64	00-64
MAD		00 *
Max. code length		
	00-64	00-64
MAE		00 *
Min. code length		
	0-15	00-15
MAF		00 *
Truncate leading		
	0-15	00-15
MAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
MAH	code	< S > *
Code ID setting		
	00-44	00-44
MAI		00 *
Insert group number		
selection		
	Numeric only	00 *
MAJ	Full ASCII only	01
Format		



Standard 2 of 5

Read: Format

Data Digits	Checksum1
(Variable)	(Optional)

Check-sum verification: The checksum is made as the sum module 10 of the numerical values of all data digits.

Check-sum transmission: By setting Enable, checksum will be transmitted.

Max./Min. code length: Refer to Max./Min. code length of Code-39.

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code ID setting: Refer to Code ID setting of UPCA. **Insertion group number selection:** Refer to page 57th Insertion group number selection of UPCA.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
JAA	Enable	01
Read		
	Disable	00 *
JAB	Enable	01
Check-sum		
verification		

	Disable	00 *
JAC	Enable	01
Check-sum		
transmission		
	00-64	00-64
JAD		00 *
Max. code length		
	00-64	00-64
JAE		00 *
Min. code length		
	0-15	00-15
JAF		00 *
Truncate leading		
	0-15	00-15
JAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
JAH	code	< i > *
Code ID setting		
	00-44	00-44
JAI		00 *
Insert group number		
selection		



China Post

Read: Format

Data Digits	Checksum1	
(Variable)	(Optional)	

Max./Min. code length: Refer to Max./Min. code length of Code-39.

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code Id setting: Refer to Code ID setting of UPCA.

Insertion group number selection: Refer to page 57th Insertion group number selection of UPCA.



Program

Option Bar Code	Option	Alphanumeric
		Entry
SAA	Disable	00 *
	Enable	01
Read		
	00-64	00-64
SAD		11 *
Max. code length		
	00-64	00-64
SAE		11 *
Min. code length		

	0-15	00-15
SAF		00 *
Truncate leading		
	0-15	00-15
SAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
SAH	code	< t > *
Code ID setting		
	00-44	01-44
SAI		00 *
Insert group number		
selection		



Italian Pharmacode (Code 32)

Read: Format

Data Digits	Checksum1
(Variable)	(Optional)

Max./Min. code length: Refer to Max./Min. code length of Code-39.

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code Id setting: Refer to Code ID setting of UPCA.

Insertion group number selection: Refer to page 57th Insertion group number selection of UPCA.

Leading "A": If this function is enabled, each prefix of data shall be A.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
WAA	Enable	01
Read		
	00-64	00-64
WAD		12 *
Max. code length		

	00-64	00-64
WAE		09 *
Min. code length		
	0-15	00-15
WAF		00 *
Truncate leading		
	0-15	00-15
WAG		00 *
Truncate ending		
	00-ffH ASCII	01-ffH
WAH	code	*
Code ID setting		
	00-44	00-44
WAI		00 *
Insert group number		
selection		
	Disable	00 *
WAJ	Enable	01



Code-16K

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code ID setting: Refer to Code ID setting of UPCA.

Insertion group number selection: Refer to page 57th Insertion group number selection of UPCA.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
RAA	Enable	01
Read		
	0-15	00-15
RAF		00 *
Truncate leading		
	0-15	00-15
RAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
RAH	code	< >*
Code ID setting		

	00-44	00-ffH
RAI		00-44
Insert group number		00 *
selection		



PDF-417

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code ID setting: Refer to Code ID setting of UPCA.

Insertion group number selection: Refer to page 57th Insertion group number selection of UPCA.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00
QAA	Enable	01 *
Read		
	0-15	00-15
QAF		00 *
Truncate leading		
	0-15	00-15
QAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
QAH	code	<p>*</p>
Code ID setting		
	00-44	00-44
QAI		00*
Insert group number		
selection		
	Disable	00*
QAJ	Enable	01
Escape sequence		
transmit		

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EAN UCC Composite

For the coupon extended code application. Coupon extended code is a supplementary barcode that is printed to the right of the UPC/EAN in UCC/EAN-128 symbology.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
YAA	Enable	01
Read		
	0-15	00-15
YAF		00 *
Truncate leading		
	0-15	00-15
YAG		00 *
Truncate ending		
	00-ffH	00-ffH
YAH	ASCII code	< RC > *
Code ID setting		
	00-44	00-44
YAI		00 *
Insert group number		
selection		

	Disable	00 *
YAK	Enable	01
UCC / EAN128		
emulation		



DataBar (RSS-14)

Read: Format

Data Digits	Checksum1
(Variable)	(Optional)

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code ID setting: Refer to Code ID setting of UPCA.

Insertion group number selection: Refer to page 57th Insertion group number selection of UPCA.

UCC/EAN 128 emulation: Refer to Transmission, Code ID transmission must be set as AIM ID enable. Then]C1 will be identified as prefix of barcode data transmission.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
TAA	Enable	01
Read		

	0-15	00-15
TAF		00 *
Truncate leading		
	0-15	00-15
TAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
TAH	code	< R4 > *
Code ID setting		
	00-44	00-44
TAI		00 *
Insert group number		
selection		
	Disable	00 *
TAK	Enable	01
UCC/EAN128		
emulation		



DataBar (RSS-Limited)

Read: Format

Data Digits	Checksum1
(Variable)	(Optional)

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code ID setting: Refer to Code ID setting of UPCA.

Insertion group number selection: Refer to page 57th Insertion group number selection of UPCA.

UCC/EAN 128 emulation: Refer to UCC/EAN 128 emulation of RSS-14.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
UAA	Enable	01
Read		
	0-15	00-15
UAF		00 *
Truncate leading		
	0-15	00-15
UAG		00 *
Truncate ending		

	00-ffH ASCII	00-ffH
UAH	code	< RL > *
Code ID setting		
	00-44	00-44
UAI		00 *
Insert group number		
selection		
	Disable	00 *
UAK	Enable	01
UCC/EAN128		
emulation		



DataBar (RSS-Expanded)

Read: Format

Data Digits	Checksum1
(Variable)	(Optional)

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code ID setting: Refer to Code ID setting of UPCA.

Insertion group number selection: Refer to page 57th Insertion group number selection of UPCA.

UCC/EAN 128 emulation: Refer to UCC/EAN 128 emulation of RSS-14.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
VAA	Enable	01
Read		
	0-15	00-15
VAF		00 *
Truncate leading		

	0-15	00-15
VAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
VAH	code	< RX > *
Code ID setting		
	00-44	00-44
VAI		00 *
Insert group number		
selection		
	Disable	00 *
VAK	Enable	01
UCC/EAN128		
emulation		



Micro-PDF

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code ID setting: Refer to Code ID setting of UPCA.

Insertion group number selection: Refer to page 57th Insertion group number selection of UPCA.



Progra

*****	i rogram	
Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00
XAA	Enable	01 *
Read		
	0-15	00-15
XAF		00 *
Truncate leading		
	0-15	00-15
XAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
XAH	code	< U > *
Code ID setting		

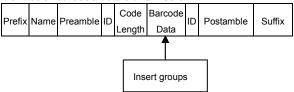
	00-44	00-44
XAI		00 *
Insert group number		
selection		
	None	00
XAJ	GLI protocol	01
Escape sequence	ECI protocol	02 *
transmit		



String setting / Transmission (Prefix / Suffix)

Prefix / Suffix characters setting: Characters defined as prefix or suffix characters will be transmitted immediately with the scanned data for all symbologies. Up to 22 ASCII characters can be defined as Prefix or Suffix.

Format of barcode data transmission:



.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	None	00 *
8AA	1-22 characters	00-ffH ASCII
Prefix characters		code
setting		
	None	0D *
8AB	1-22 characters	00-ffH ASCII
Suffix characters		code
setting		



String setting / Transmission (Preamble/Postamble)

Preamble/ Postamble characters: Preamble or Postamble characters will be appended to the data automatically for all symbologies. However, the transmission will not activate unless **Preamble / Postamble transmission** is enabled.

Preamble transmission: By setting Enable, Preamble will be appended before the data transmitted.

Postamble transmission: By setting Enable, Postamble will be appended after the data is transmitted.

Example

Add a prefix/suffix or preamble/postamble for all symbologies. In this example, you are sending a \$ symbol as a prefix for all symbologies.

Steps:

- 1) Scan Programming and Prefix characters setting barcode.
- 2) Use the ASCII code table to find the value of \$→24.
- 3) Scan 2 and 4 from the barcode on the fold out back page.
- 4) Scan Finish from the barcode on the fold out page.
- 5) Scan Exit barcode.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	1-22 characters	"PREAMBLE" *
8AC		00-ffH ASCII
Preamble characters		code
setting		
	Disable	00 *
6AA	Enable	01
Preamble		
transmission		
	1-22 characters	"POSTAMBLE" *
8AD		00-ffH ASCII
Postamble		code
characters setting		
	Disable	00 *
6AB	Enable	01
Postamble		
transmission		



String setting / Transmission (Insert Group Characters)

Insert G1/G2/G3/G4 character setting: The imager supports inserting two groups with each group 22 characters into transmitted data of selected symbologies. The two groups can be inserted into scanned data of the selected symbologies or positioned at leading / ending of data. There are total four groups for utilization.

Insert data group position: To define the position of a group to insert into bar code data. Please notice that the inserting position of a group must not exceed the code length; or the insertion will be positioned at the ending of data.

Notice: Default value "00" indicates the group to be positioned at the leading of data. "64" represents for positioning the group at the ending of data.

Insert data group setting procedure:

- i. Define the characters of groups for insertion.
- ii. Setup the inserting position of each group in scanned data.
- iii. Select one or two groups to insert into specific bar codes. Please refer to the setting pages of each bar code.

Example: Barcode "1 2 3 4 5 6".

Output-Barcode "1 2 A B 3 4 C D 5 6".

Steps:

- Scan Programming and Insert G1 characters setting barcode.
- 2) Use the ASCII code table to find the value of A→41,B→ 42.
- 3) Scan 4, 1 and 4, 2 from the barcode on the fold out back page.
- 4) Scan Finish from the barcode on the fold out page.

- 5) Repeat the same procedure in Insert G2 characters setting.
- 6) Scan Exit barcode.
- Insert data group 1-4 position. Please refer to the specific barcode that you want to use.
- 2) Insert data group 1-4 position: The imager offers 4 positions to insert among the symbol. The position default value is "00" to indicate no character insertion. Beside, make sure insertion positions are not greater than the symbols; otherwise the insertion data is not effective.



Option Bar Code	Option	Alphanumeric
		Entry
	1-22 characters	"GROUP1" *
8AE		00-ffH ASCII
Insert G1 characters		code
setting		
	1-22 characters	"GROUP2" *
8AF		00-ffH ASCII
Insert G2 characters		code
setting		
	1-22 characters	"GROUP3" *
8AG		00-ffH ASCII
Insert G3 characters		code
setting		
	1-22 characters	"GROUP4" *
8AH		00-ffH ASCII
Insert G4 characters		code
setting		
	00-64	00-64
6AC	(00: no insertion)	00 *
Insert data group 1		
position		

	00-64	00-64
6AD	(00: no insertion)	00 *
Insert data group 2		
position		
	00-64	00-64
6AE	(00: no insertion)	00 *
Insert data group 3		
position		
	00-64	00-64
6AF	(00: no insertion)	00 *
Insert data group 4		
position		



String setting / Transmission (Others)

Code ID position: Upon your usage, the transmitting position of Code ID can be selected to place Before Code Data or After Code Data when it is transmitted.

Code ID transmission: If your application is needed to transmit Code ID, you must set this to Proprietary ID or AIM ID.

Code length transmission: A number of data digits can be transmitted before the code data when Enable is selected. The total length of the barcode is the number of barcode data except Truncate Leading/Ending Digits. And the length is a number with two digits.

Code name transmission: This function is to show unknown barcode symbologies that include all readable symbologies of the imager. When Enable is selected, Code Name will be transmitted before code data, you will know what kind of barcode symbology is.

Case conversion: Setup the scanned data characters to be transmitted all in upper case or lower case. For example: If upper case is selected, "12aBcDeF" will be converted and transmitted to host as "12ABCDEF".



Program

Option Bar Code	Option	Alphanumeric
		Entry

	Before code data	00 *	
6AG	After code data	01	
Code ID position			
6AH	Disable	00 *	
	Proprietary ID	01	
Code ID	AIM ID	02	
transmission			
6AI	Disable	00 *	
	Enable	01	
Code length			
transmission			
	Disable	00 *	
6AJ	Enable	01	
Code name			
transmission			
6AK	Disable	00 *	
	Upper case	01	
Case conversion	Lower case	02	
(For barcode data			
only)			



Test Chart (Bar code samples marked with symbol "*" are enabled initially.)

CODABAR-PARA



a154987a

CODE-11 PARA



CODE-128 PARA *



250505

CODE-39 PARA *



741258

CODE-93 PARA



951263

EAN-13 PARA *



135



STANDRAD-25 PARA



65978

CODE-16K



EAN-8 PARA *



INDUSTRIAL-25 PARA



04976

UPCE PARA *





MATRIX 25 PARA



MSI/PLESSEY PARA



UPCA PARA *



UK/PLESSEY PARA



RSS



Micro-PDF *



ASCII CO	de Tab	ole .	Note:	F	or keyboa	rd wedg	ge only.
<i>#</i>	0			1	0		1
0	Null				NU	L	DLE
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			F7		BEL		ETB
8	Bs			F8	BS		CAN
9	Tab			F9	НТ		EM
Α				F10	LF		SUB
В	Home			Esc	VT		ESC
С	End			F11	FF		FS
D	Enter			F12	CF	2	GS
E	Insert			Ctrl+	sc)	RS
F	Delete	9		Alt+	SI		US
	2		3	4	5	6	7
0	SP						
	O.		0	@	Р	`	р
1	!		0 1	@ A	P Q	a	p q
1	!	:	1	Α	Q	а	q
1 2	į.	:	1	A B	Q R	a b	q
1 2 3	! "	:	2	A B C	Q R S	a b c	q r s
1 2 3 4	! " # \$		1 2 3 4	A B C D	Q R S	a b c	q r s
1 2 3 4 5	! " # \$:	1 2 3 4	A B C D	Q R S T	a b c d	q r s t u
1 2 3 4 5	! # \$ %	:	1 2 3 4 5	A B C D E	Q R S T U	a b c d e f	q r s t u v
1 2 3 4 5 6	! # \$ % &	:	1 2 3 4 5 6	A B C D F	Q R S T U V	a b c d e f g	q r s t u v w
1 2 3 4 5 6 7 8	! # \$ % &	:	1 2 3 4 5 6 7	A B C D F G H	Q R S T U V	a b c d e f g	q r s t u v w x
1 2 3 4 5 6 7 8	! # \$ % &		1 2 3 4 5 6 7 8 9	A B C D F G H	Q R S T U V W	a b c d e f g h	q r s t u v v w x y
1 2 3 4 5 6 7 8 9 A	! # \$ % & . · · · · · · · · · · · · · · · · · ·	:	1 2 3 4 5 6 7 8 9	A B C D E F G H I	Q R S T U V W X Y	a b c d e f g h i j	q r s t u v v w x y y z
1 2 3 4 5 6 7 8 9 A B	! # \$ % & . · · · · · · · · · · · · · · · · · ·		1 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9	A B C D E F G H I J K	Q R S T U V W X Y Z [a b c d e f g h i	q r s t u v w x y z {
1 2 3 4 5 6 6 7 8 9 A B C	! # \$ % & . · · · · · · · · · · · · · · · · · ·		1 1 1 2 2 3 3 3 4 4 4 5 5 6 6 6 7 7 7 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9	A B C D E F G H I J K	Q R S T U V W X Y Z [I \	a b c d e f g h i	q r s t u v w x y z {
1 2 3 4 5 6 7 8 9 A B C D	! # \$ % & . · · · · · · · · · · · · · · · · · ·		1 2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 : ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	A B C D E F G H I J K L	Q R S T U V W X Y Z [\ \ \ \ \ \ \ \ \]	a b c d e f g h i j k I m	q r s t u v w x y z {

Parameter Setting List



Program



Barcode standard parameter setting list

If you wish to display the current barcode reading configuration of your SC5-USB-W imager over the host terminal/computer, scan the Barcode standard parameter setting list bar code.



System parameter setting list

If you wish to display the current system configuration of your SC5-USB-W imager over the host terminal/computer, scan the System parameter setting list bar code.



String setting list

If you wish to display the string format list, scan the String setting list bar code.



Query present cradle firmware version



Program



Firmware version list

If you wish to display the cradle and imager firmware versions, scan the "Firmware version list" barcode.



Exit

Reset cradle to factory default settings



WARNING: Default value initialization

If you wish to return the SC5-USB-W imager to all the factory default settings, scan the above barcode will perform the feature. However, the cradle will be set to factory default settings at the same time.

Note: This feature is only available when "Auto Update" is enabled (see page 12)

