



**2D BARCODE SCANNER  
USER MANUAL**

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# Revision History

Version	Description	Date
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V1.1	Add data , parity , stop bits settings for RS232	August 06, 2019
	Support UTF8 QR Keyboard Output for Israel ; Greek	
V1.2	Add settings for DotCode	August 29, 2019

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# Chapter 1 System Settings

## Factory Defaults

Scanning the following barcode can restore the engine to the factory defaults.



Enter Setup



Restore All Factory Defaults



Exit Setup

# Custom Defaults

Scanning the **Restore All Custom Defaults** barcode can reset all parameters to the custom defaults. Scanning the **Saveas Custom Defaults** barcode can set the current settings as custom defaults.



Enter Setup



Save as Custom Defaults



Restore All Custom Defaults



Exit Setup

# Scan Mode

## **Level Mode:**

A trigger pull activates a decode session. The decode session continues until a barcode is decoded or you release the trigger.

## **Sense Mode:**

The engine activates a decode session every time it detects a barcode presented to it. The decode session continues until a barcode is decoded or the decode session timeout expires.

## **Continuous Mode:**

The engine automatically starts one decode session after another. To suspend/resume barcode reading, simply press the trigger.

# Level Mode



Enter Setup



\*\* Level Mode



Exit Setup

# Sense Mode



Enter Setup



Sense Mode



Exit Setup

# Continuous Mode



Enter Setup



Continuous Mode



Exit Setup

# Read Same Barcode

This setting can avoid undesired rereading of same barcode in a given period of time. This feature is only applicable to the Sense and Continuous modes.

## **Do Not Reread:**

Do not allow to reread same barcode when rereading same barcode in a given period of time.

## **Read After Timeout :**

Allow the engine to reread same barcode after the reread timeout expires.

It is programmable in 1ms increments from 0ms to 5,000 ms. When it is set to a value greater than 5,000, the timeout for rereading same programming barcode is limited to 5,000 ms. The default setting is **Ignore Same Barcode** when reading same barcode in **500 ms**.

Reread same barcode after 1,00ms:

1. Scan the **Enter Setup** barcode.
2. Scan the **Read After Timeout** barcode.
3. Scan the **Set Time** barcode.
4. Scan the numeric barcodes "1", "0", "0" and "0" from the "**Digit Barcodes**" section in Appendix.
5. Scan the **Exit Setup** barcode.



# Read Same Barcode



Enter Setup



\*\*DoNot Reread



Read After Timeout



Set Time (ms)



Exit Setup

# Decoding Timeout

Decoding Timeout specifies the maximum time the engine will spend decoding an image. This feature is only applicable to the Level and Sense modes.

It is programmable in 1ms increments from 0 ms to 3,600,000 ms. When it is set to a value greater than 3,600,000, the timeout for rereading same programming barcode is limited to 3,600,000 ms. The default timeout is 5000 ms.

Set Decoding Timeout to 1,000 ms:

1. Scan the **Enter Setup** barcode.
2. Scan the **Decoding Timeout** barcode.
3. Scan the numeric barcodes "1", "0", "0" and "0" from the "**Digit Barcodes**" section in Appendix.
4. Scan the **Exit Setup** barcode.



Enter Setup



Decoding Timeout (ms)



Exit Setup

# Decode Redundancy



Enter Setup



2 Times



3 Times



\*\*Disable



Exit Setup

# Aiming LED



Enter Setup



Disable



Always On



**\*\*Normal (Scan On)**



Exit Setup

# Illumination Mode



Enter Setup



Disable



Always On



\*\*Normal (Scan On)



Exit Setup

# Illumination Level



Enter Setup



Low



Medium



\*\*High



Exit Setup

# Chapter 2 Interface

## USB HID Keyboard



Enter Setup



\*\*USB HID Keyboard



Exit Setup

# USB Virtual COM Port



Enter Setup



USB Virtual COM Port



Exit Setup



# RS232 COM Port



Enter Setup



RS232 COM Port



Exit Setup

# RS232 Baud Rate



Enter Setup



**\*\*9600**



19200



38400



57600



115200



230400



Exit Setup

# RS232 Data Bits



Enter Setup



7 Data Bits



\*\*8 Data Bits



Exit Setup

# RS232 Parity



Enter Setup



\*\*No Parity



Odd Parity



Even Parity



Exit Setup

# RS232 Stop Bits



Enter Setup



\*\*1 Stop Bit



2 Stop Bits



Exit Setup

# USB Country Keyboard



Enter Setup



\*\* U.S. (English)



Belgium



Britain



Denmark

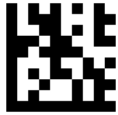


Exit Setup

# USB Country Keyboard



Enter Setup



France



Germany



Italy



Norway



Exit Setup

# USB Country Keyboard



Enter Setup



Portugal



Spain



Sweden



Switzerland



Exit Setup



# USB Country Keyboard



Enter Setup



Japan



Hungary



Czech Republic



Slovakia



Exit Setup

# USB Country Keyboard



Enter Setup



Romania



Croatia



Poland



Turkish Q



Exit Setup

# USB Country Keyboard



Enter Setup



Brazil



Russian



Bulgaria



Exit Setup

# Chapter 3 Symbologies

## Enable All Symbologies



Enter Setup



Enable All Symbologies



Exit Setup

# Only Enable 1D Symbologies



Enter Setup



Only Enable 1D Symbologies



Exit Setup

# Only Enable 2D Symbologies



Enter Setup



Only Enable 2D Symbologies



Exit Setup

# EAN-13



Enter Setup



\*\*Enable EAN-13



Disable EAN-13



Exit Setup

## Transmit Check Character



Enter Setup



\*\* Transmit EAN-13 Check Character



Do Not Transmit EAN-13 Check Character



Exit Setup



Convert EAN-13 to ISBN



Enter Setup



Convert EAN-13 to ISBN



\*\*Do Not Convert EAN-13 to ISBN



Exit Setup

Convert EAN-13 to ISSN



Enter Setup



Convert EAN-13 to ISSN



\*\*Do Not Convert EAN-13 to ISSN



Exit Setup

## Enable/Disable Add-On Codes



Enter Setup



Enable EAN-13 2/5 Add-On Codes



\*\*Disable EAN-132/5 Add-On Codes



Exit Setup

## Add-On Code Required

When **EAN-13 Add-On Code Required** is selected, the engine will only read **EAN-13** barcodes that contain add-on codes.



**Enter Setup**



**EAN-13 Add-On Code Required**



**\*\* EAN-13 Add-On Code Not Required**



**Exit Setup**

# EAN-8



Enter Setup



\*\*Enable EAN-8



Disable EAN-8

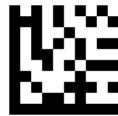


Exit Setup

## Transmit Check Character



Enter Setup



\*\* Transmit EAN-8 Check Character



Do Not Transmit EAN-8 Check Character



Exit Setup

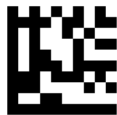
Convert EAN-8 to EAN-13



Enter Setup



Convert EAN-8 to EAN-13



\*\*Do Not Convert EAN-8 to EAN-13



Exit Setup

## Enable/Disable Add-On Codes



Enter Setup



Enable EAN-8 2/5 Add-On Codes



\*\*Disable EAN-8 2/5 Add-On Codes



Exit Setup



## Add-On Code Required

When **EAN-8 Add-On Code Required** is selected, the engine will only read EAN-8 barcodes that contain add-on codes.



Enter Setup



EAN-8 Add-On Code Required



\*\* EAN-8 Add-On Code Not Required



Exit Setup

# UPC-A



Enter Setup



\*\*Enable UPC-A



Disable UPC-A



Exit Setup

## Transmit Preamble Character



Enter Setup



\*\* Transmit UPC-A Preamble Character



Do Not Transmit UPC-A Preamble Character



Exit Setup

## Transmit Check Character



Enter Setup



\*\* Transmit UPC-A Check Character



Do Not Transmit UPC-A Check Character

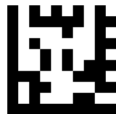


Exit Setup

Convert UPC-A to EAN-13



Enter Setup



Convert UPC-A to EAN-13



\*\*Do Not Convert UPC-A to EAN-13



Exit Setup

## Enable/Disable Add-On Codes



Enter Setup



Enable UPC-A 2/5 Add-On Codes



\*\*Disable UPC-A 2/5 Add-On Codes



Exit Setup

## Add-On Code Required

When **UPC-A Add-On Code Required** is selected, the engine will only read **UPC-A** barcodes that contain add-on codes.



Enter Setup



UPC-A Add-On Code Required



\*\* UPC-A Add-On Code Not Required



Exit Setup

# UPC-E



Enter Setup



\*\*Enable UPC-E



Disable UPC-E



Exit Setup



## Transmit Preamble Character



Enter Setup



\*\* Transmit UPC-E Preamble Character



Do Not Transmit UPC-E Preamble Character



Exit Setup

## Transmit Check Character



Enter Setup



\*\* Transmit UPC-E Check Character



Do Not Transmit UPC-E Check Character



Exit Setup

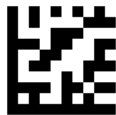
Convert UPC-E to UPC-A



Enter Setup



Convert UPC-E to UPC-A



\*\*Do Not Convert UPC-E to UPC-A



Exit Setup

## Enable/Disable Add-On Codes



Enter Setup



Enable UPC-E 2/5 Add-On Codes



\*\*Disable UPC-E 2/5 Add-On Codes



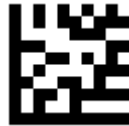
Exit Setup

## Add-On Code Required

When **UPC-E Add-On Code Required** is selected, the engine will only read **UPC-E** barcodes that contain add-on codes.



Enter Setup



UPC-E Add-On Code Required



\*\* UPC-E Add-On Code Not Required



Exit Setup

## Code 128 / GS1 -128



Enter Setup



\*\*Enable Code 128 / GS1-128



Disable Code 128 / GS1-128



Exit Setup

## Set Lengths for Code 128

- **One Discrete Length**

Select this option to decode only Code 128 symbols containing a selected length.

- **Two Discrete Lengths**

Select this option to decode only Code 128 symbols containing either of two selected lengths.

- **Length Within Range**

Select this option to decode a Code 128 symbol with a specific length range.

- **Any Length**

Select this option to decode Code 128 symbols containing any number of characters within the decoder capability.

To decode only Code 128 symbols with 9 characters.

1. Scan the **Enter Setup** barcode.
2. Scan the **One Discrete Length** barcode.
3. Scan the numeric barcodes "9" from the "**Digit Barcodes**" section in Appendix.
4. Scan the **Exit Setup** barcode.

## Set Lengths for Code 128



Enter Setup



One Discrete Length



Two Discrete Lengths



Length Within Range



\*\* Any Length



Exit Setup



# Code 39



Enter Setup



**\*\*Enable Code 39**



Disable Code 39



Exit Setup

Full ASCII



Enter Setup



Enable Code 39 Full ASCII



\*\*Disable Code 39 Full ASCII



Exit Setup

Transmit Start/Stop Character



Enter Setup



Transmit Start/Stop Character



**\*\*Do Not Transmit Start/Stop Character**



Exit Setup

## Check Character Verification



Enter Setup



Transmit Check Character After Verification



Do Not Transmit Check Character After Verification



**\*\*Disable**



Exit Setup

## Set Lengths for Code 39

- **One Discrete Length**

Select this option to decode only Code 39 symbols containing a selected length.

- **Two Discrete Lengths**

Select this option to decode only Code 39 symbols containing either of two selected lengths.

- **Length Within Range**

Select this option to decode a Code 39 symbol with a specific length range.

- **Any Length**

Select this option to decode Code 39 symbols containing any number of characters within the decoder capability.

To decode only those Code 39 symbols containing either 2 or 14 characters.

1. Scan the **Enter Setup** barcode.
2. Scan the **Two Discrete Lengths** barcode.
3. Scan the numeric barcodes "0","2" from the "**Digit Barcodes**" section in Appendix.
4. Scan the numeric barcodes "1","4" from the "**Digit Barcodes**" section in Appendix.
5. Scan the **Exit Setup** barcode.

## Set Lengths for Code 39



Enter Setup



One Discrete Length



Two Discrete Lengths



Length Within Range



\*\* Any Length



Exit Setup

Code 32



Enter Setup



Enable Code 32



\*\*Disable Code 32



Exit Setup

# Code 93



Enter Setup



Enable Code 93



\*\*Disable Code 93



Exit Setup



## Set Lengths for Code 93

- **One Discrete Length**

Select this option to decode only Code 93 symbols containing a selected length.

- **Two Discrete Lengths**

Select this option to decode only Code 93 symbols containing either of two selected lengths.

- **Length Within Range**

Select this option to decode a Code 93 symbol with a specific length range.

- **Any Length**

Select this option to decode Code 93 symbols containing any number of characters within the decoder capability.

To decode Code 93 symbols containing between 4 and 12 characters.

1. Scan the **Enter Setup** barcode.
2. Scan the **Length Within Range** barcode.
3. Scan the numeric barcodes "0","4" from the "**Digit Barcodes**" section in Appendix.
4. Scan the numeric barcodes "1","2" from the "**Digit Barcodes**" section in Appendix.
5. Scan the **Exit Setup** barcode.

## Set Lengths for Code 93



Enter Setup



One Discrete Length



Two Discrete Lengths



Length Within Range



\*\* Any Length



Exit Setup

# Code 11



Enter Setup



Enable Code 11



\*\*Disable Code 11



Exit Setup

## Transmit Check Character



Enter Setup



\*\* Transmit Code 11 Check Character



Do Not Transmit Code 11 Check Character



Exit Setup

## Set Lengths for Code 11

- **One Discrete Length**

Select this option to decode only Code 11 symbols containing a selected length.

- **Two Discrete Lengths**

Select this option to decode only Code 11 symbols containing either of two selected lengths.

- **Length Within Range**

Select this option to decode a Code 11 symbol with a specific length range.

- **Any Length**

Select this option to decode Code 11 symbols containing any number of characters within the decoder capability.

To decode only Code 11 symbols with 9 characters.

1. Scan the **Enter Setup** barcode.
2. Scan the **One Discrete Length** barcode.
3. Scan the numeric barcodes "9" from the "**Digit Barcodes**" section in Appendix.
4. Scan the **Exit Setup** barcode.

## Set Lengths for Code 128



Enter Setup



One Discrete Length



Two Discrete Lengths



Length Within Range



\*\* Any Length



Exit Setup

# Codabar



Enter Setup



\*\*Enable Codabar



Disable Codabar



Exit Setup

## Check Character Verification



Enter Setup



Transmit Check Character After Verification



Do Not Transmit Check Character After Verification



**\*\*Disable**



Exit Setup



Transmit Start/Stop Character



Enter Setup



Transmit Start/Stop Character



**\*\*Do Not Transmit Start/Stop Character**



Exit Setup

## Set Lengths for Codabar

- **One Discrete Length**

Select this option to decode only Codabar symbols containing a selected length.

- **Two Discrete Lengths**

Select this option to decode only Codabar symbols containing either of two selected lengths.

- **Length Within Range**

Select this option to decode a Codabar symbol with a specific length range.

- **Any Length**

Select this option to decode Codabar symbols containing any number of characters within the decoder capability.

To decode Codabar symbols containing between 4 and 12 characters.

1. Scan the **Enter Setup** barcode.
2. Scan the **Length Within Range** barcode.
3. Scan the numeric barcodes "0","4" from the "**Digit Barcodes**" section in Appendix.
4. Scan the numeric barcodes "1","2" from the "**Digit Barcodes**" section in Appendix.
5. Scan the **Exit Setup** barcode.

## Set Lengths for Codabar



Enter Setup



One Discrete Length



Two Discrete Lengths



Length Within Range



\*\* Any Length



Exit Setup

# Plessey



Enter Setup



Enable Plessey



**\*\*Disable Plessey**



Exit Setup

## Set Lengths for Plessey

- **One Discrete Length**

Select this option to decode only Plessey symbols containing a selected length.

- **Two Discrete Lengths**

Select this option to decode only Plessey symbols containing either of two selected lengths.

- **Length Within Range**

Select this option to decode a Plessey symbol with a specific length range.

- **Any Length**

Select this option to decode Plessey symbols containing any number of characters within the decoder capability.

To decode Plessey symbols containing between 2 and 13 characters.

1. Scan the **Enter Setup** barcode.
2. Scan the **Length Within Range** barcode.
3. Scan the numeric barcodes "0","2" from the "**Digit Barcodes**" section in Appendix.
4. Scan the numeric barcodes "1","3" from the "**Digit Barcodes**" section in Appendix.
5. Scan the **Exit Setup** barcode.

## Set Lengths for Codabar



Enter Setup



One Discrete Length



Two Discrete Lengths



Length Within Range



\*\* Any Length



Exit Setup

# MSI Plessey



Enter Setup



**\*\*Enable MSI Plessey**



Disable MSI Plessey



Exit Setup

## Check Character Verification



Enter Setup



Disable



\*\*One Check Character , MOD10



Two Check Characters , Mod 10/10



Two Check Characters , Mod 11/10



Exit Setup



Transmit Check Character



Enter Setup



\*\* Transmit MSI Plessey Check Character



Do Not Transmit MSI Plessey Check Character



Exit Setup

## Set Lengths for MSI Plessey

- **One Discrete Length**

Select this option to decode only MSI Plessey symbols containing a selected length.

- **Two Discrete Lengths**

Select this option to decode only MSI Plessey symbols containing either of two selected lengths.

- **Length Within Range**

Select this option to decode a MSI Plessey symbol with a specific length range.

- **Any Length**

Select this option to decode MSI Plessey symbols containing any number of characters within the decoder capability.

To decode MSI Plessey symbols containing between 3 and 12 characters.

1. Scan the **Enter Setup** barcode.
2. Scan the **Length Within Range** barcode.
3. Scan the numeric barcodes "0","3" from the "**Digit Barcodes**" section in Appendix.
4. Scan the numeric barcodes "1","2" from the "**Digit Barcodes**" section in Appendix.
5. Scan the **Exit Setup** barcode.

## Set Lengths for MSI Plessey



Enter Setup



One Discrete Length



Two Discrete Lengths



Length Within Range



\*\* Any Length



Exit Setup

## Interleaved 2 of 5



Enter Setup



**\*\*Enable Interleaved 2 of 5**



Disable Interleaved 2 of 5



Exit Setup

## Check Character Verification



Enter Setup



Transmit Check Character After Verification



Do Not Transmit Check Character After Verification



**\*\*Disable**



Exit Setup

## Set Lengths for Interleaved 2 of 5

- **One Discrete Length**

Select this option to decode only Interleaved 2 of 5 symbols containing a selected length.

- **Two Discrete Lengths**

Select this option to decode only Interleaved 2 of 5 symbols containing either of two selected lengths.

- **Length Within Range**

Select this option to decode a Interleaved 2 of 5 symbol with a specific length range.

- **Any Length**

Select this option to decode Interleaved 2 of 5 symbols containing any number of characters within the decoder capability.

To decode only Interleaved 2 of 5 symbols with 8 characters.

1. Scan the **Enter Setup** barcode.
2. Scan the **One Discrete Length** barcode.
3. Scan the numeric barcodes "8" from the "**Digit Barcodes**" section in Appendix.
4. Scan the **Exit Setup** barcode.

## Set Lengths for Interleaved 2 of 5



Enter Setup



One Discrete Length



Two Discrete Lengths



Length Within Range



\*\* Any Length



Exit Setup

## Matrix 2 of 5



Enter Setup



Enable Matrix 2 of 5



**\*\*Disable Matrix 2 of 5**



Exit Setup



## Set Lengths for Matrix 2 of 5

- **One Discrete Length**

Select this option to decode only Matrix 2 of 5 symbols containing a selected length.

- **Two Discrete Lengths**

Select this option to decode only Matrix 2 of 5 symbols containing either of two selected lengths.

- **Length Within Range**

Select this option to decode a Matrix 2 of 5 symbol with a specific length range.

- **Any Length**

Select this option to decode Matrix 2 of 5 symbols containing any number of characters within the decoder capability.

To decode only Matrix 2 of 5 symbols with 8 characters.

1. Scan the **Enter Setup** barcode.
2. Scan the **One Discrete Length** barcode.
3. Scan the numeric barcodes "8" from the "**Digit Barcodes**" section in Appendix.
4. Scan the **Exit Setup** barcode.

## Set Lengths for Interleaved 2 of 5



Enter Setup



One Discrete Length



Two Discrete Lengths



Length Within Range



\*\* Any Length



Exit Setup

## IATA 2 of 5



Enter Setup



Enable IATA 2 of 5



\*\*Disable IATA 2 of 5



Exit Setup

## Straight 2 of 5



Enter Setup



Enable Straight 2 of 5



**\*\*Disable Straight 2 of 5**



Exit Setup

# Pharmacode



Enter Setup



Enable Pharmacode



**\*\*Disable Pharmacode**



Exit Setup

# GS1 DataBar 14



Enter Setup



**\*\*Enable GS1 DataBar 14**



Disable GS1 DataBar 14



Exit Setup

## GS1 DataBar 14 Stacked



Enter Setup



Enable GS1 DataBar 14 Stacked



\*\*Disable GS1 DataBar 14 Stacked



Exit Setup

Transmit Application Identifier "01"



Enter Setup



\*\* Transmit Application Identifier "01"



Do Not Transmit Application Identifier "01"



Exit Setup



# GS1 DataBar Expanded



Enter Setup



\*\*Enable GS1 DataBar Expanded



Disable GS1 DataBar Expanded



Exit Setup

## GS1 DataBar Expanded Stacked



Enter Setup



Enable GS1 DataBar Expanded Stacked



\*\*Disable GS1 DataBar Expanded Stacked



Exit Setup

Transmit Application Identifier "01"



Enter Setup



\*\* Transmit Application Identifier "01"



Do Not Transmit Application Identifier "01"



Exit Setup

# GS1 DataBar Limited



Enter Setup



**\*\*Enable GS1 DataBar Limited**



Disable GS1 DataBar Limited



Exit Setup

Transmit Application Identifier "01"



Enter Setup



\*\* Transmit Application Identifier "01"



Do Not Transmit Application Identifier "01"



Exit Setup

# Composite Code-A



Enter Setup



Enable Composite Code-A



\*\*Disable Composite Code-A



Exit Setup

# Composite Code-B



Enter Setup



Enable Composite Code-B



\*\*Disable Composite Code-B



Exit Setup

# Composite Code-C



Enter Setup



Enable Composite Code-C



\*\*Disable Composite Code-C



Exit Setup



# PDF417



Enter Setup



\*\*Enable PDF417



Disable PDF417



Exit Setup

# Micro PDF417



Enter Setup



\*\*Enable Micro PDF417



Disable Micro PDF417



Exit Setup

# Data Matrix



Enter Setup



**\*\*Enable Data Matrix**



Disable Data Matrix



Exit Setup

## Rectangular Data Matrix



Enter Setup



**\*\*Enable Rectangular Data Matrix**



Disable Rectangular Data Matrix



Exit Setup

QR



Enter Setup



\*\*Enable QR



Disable QR



Exit Setup

## UTF8/Code Page QR Keyboard Output



Enter Setup



\*\* GB2312 – Unicode / Excel ; Notepad



GB2312 – Code Page / Word



Exit Setup

## UTF8/Code Page QR Keyboard Output



Enter Setup



Thailand



Russia



Turkey



Brazil



Exit Setup

## UTF8/Code Page QR Keyboard Output



Enter Setup



Germany



Italy



Spain



Portugal



Exit Setup



## UTF8/Code Page QR Keyboard Output



Enter Setup



Greek



Israel



Exit Setup

# Micro QR



Enter Setup



\*\*Enable Micro QR



Disable Micro QR



Exit Setup

# Aztec



Enter Setup



Enable Aztec



\*\*Disable Aztec



Exit Setup

# MaxiCode



Enter Setup



Enable MaxiCode



\*\*Disable MaxiCode



Exit Setup

# DotCode



Enter Setup



Enable DotCode



\*\*Disable DotCode



Exit Setup

# Chapter 4 String Options

This chapter describes the alterations which can be made to the format of transmitted data string.

Options available are:

- Case Conversion
- Transmission of Decode Information
- Transmission of AIM ID
- Transmission of Prefix / Suffix
- Transmission of Terminated Character (postamble)
- Function Key Mapping
- GS Code Conversion

The string format transmitted as following figure:

Barcode Contents (4 bytes)	Prefix (8 bytes)	AIM identify ID	Barcode Data	Suffix (8 bytes)	Terminated Character (1 byte)
-------------------------------	---------------------	-----------------------	--------------	---------------------	----------------------------------

# Decode Information

Decode information specifies the identify code and length of decoded barcode. This feature is only applicable to RS232 interface.

The barcode information transmitted as following figure:

Star Code 0x03 (1 byte)	Identify Code (1 byte)	Code Length (2 bytes) 0x0001 ~0xFFFF
-------------------------	------------------------	---

Value of Identify Code :

ID	2D Symbologies	ID	1D Symbologies	ID	1D Symbologies
0x41	PDF417	0x61	UPC A	0x71	Pharmacode
0x42	Micro PDF417	0x62	UPC E	0x72	GS1 DataBar 14
0x43	Data Matrix	0x63	EAN 8	0x73	GS1 DataBar Expanded
0x44	QR	0x64	EAN 13	0x74	GS1 DataBar Limited
0x45	Micro QR	0x65	Code 128	0x75	Composite Code-A
0x46	Aztec	0x66	Code 39	0x76	Composite Code-B
0x47	MaxiCode	0x67	Code 93	0x77	Composite Code-C
		0x68	Code 32		
		0x69	Code 11		
		0x6A	Codabar		
		0x6B	Plessey		
		0x6C	MSI Plessey		
		0x6D	Interleaved 2 of 5		
		0x6E	IATA 2 of 5		
		0x6F	Matrix 2 of 5		
		0x70	Straight 2 of 5		

# Decode Information



Enter Setup



Enable



\*\*Disable



Exit Setup



# AIM ID



Enter Setup



Enable AIM ID



\*\*Disable AIM ID



Exit Setup

# Prefix

Maximum 8 characters can include in front of data string.

Set ASCII code "a" for all Symbologies

1. Scan the **Enter Setup** barcode.
2. Scan the **Set All Symbologies** barcode.
3. Scan the "a" barcode from the **ASCII Code Table** in Appendix C.
4. Scan the **Exit Setup** barcode.

Disable Prefix for all Symbologies

1. Scan the **Enter Setup** barcode.
2. Scan the **Disable All Symbologies** barcode.
3. Scan the **Exit Setup** barcode.

Set "E","1" for EAN 13

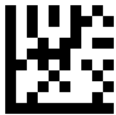
1. Scan the **Enter Setup** barcode.
2. Scan the **Set Symbology** barcode.
3. Scan the **EAN 13** barcode in Appendix - B.
4. Scan the "E" barcode from the **ASCII Code Table** in Appendix C.
5. Scan the "1" barcode from the **ASCII Code Table** in Appendix C.
6. Scan the **Exit Setup** barcode.

Disable Prefix for EAN 13

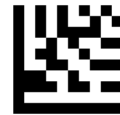
1. Scan the **Enter Setup** barcode.
2. Scan the **Disable Symbology** barcode.
3. Scan the **EAN 13** barcode from the **Symbologies Table** in Appendix - B.
4. Scan the **Exit Setup** barcode.



Enter Setup



**\*\*Disable All Symbologies**



Set All Symbologies



Set Symbology



Disable Symbology



Exit Setup

# Suffix

Maximum 8 characters can include in end of data string.

Set ASCII code "a" for all Symbologies

1. Scan the **Enter Setup** barcode.
2. Scan the **Set All Symbologies** barcode.
3. Scan the "a" barcode from the **ASCII Code Table** in Appendix C.
4. Scan the **Exit Setup** barcode.

Disable Prefix for all Symbologies

1. Scan the **Enter Setup** barcode.
2. Scan the **Disable All Symbologies** barcode.
3. Scan the **Exit Setup** barcode.

Set "S","2" for EAN-8

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Symbology** barcode.
3. Scan the **EAN 8** barcode in Appendix - B.
4. Scan the "S" barcode from the **ASCII Code Table** in Appendix C.
5. Scan the "2" barcode from the **ASCII Code Table** in Appendix C.
6. Scan the **Exit Setup** barcode.

Disable Prefix for EAN 8

1. Scan the **Enter Setup** barcode.
2. Scan the **Disable Symbology** barcode.
3. Scan the **EAN 8** barcode from the **Symbologies Table** in Appendix - B.
4. Scan the **Exit Setup** barcode.



Enter Setup



\*\*Disable All Symbologies



Set All Symbologies



Set Symbology



Disable Symbology



Exit Setup

# Terminated Character



Enter Setup



Disable



\*\*CR



Exit Setup

# Terminated Character



Enter Setup



CR / LF



TAB



Exit Setup

# Case Conversion



Enter Setup



Convert All to Upper Case



Convert All to Lower Case



**\*\*Disable**



Exit Setup



# Caps Lock



Enter Setup



\*\*Disable Caps Lock



Enable Caps Lock



Exit Setup

# GS Code Conversion

## Convert GS code to other ASCII Code

设置 GS字元转换为 # 输出:

1. 扫描 "Enter Setup"
2. 扫描 "转换GS字元"
3. 扫描 ASCII Code 表 , # 设置码
4. 扫描 "Exit Setup"

设置 GS字元转换为回车输出:

1. 扫描 "Enter Setup"
2. 扫描 "转换GS字元"
3. 扫描 ASCII Code 表 , 回车 设置码
4. 扫描 "Exit Setup"

恢复GS字元默认值

1. 扫描 "Enter Setup"
2. 扫描 "关闭GS字元转换"
3. 扫描 "Exit Setup"

# GS Code Conversion



Enter Setup



**\*\*Disable GS Conversion**



Enable GSConversion



Exit Setup

# Function Key Mapping



Enter Setup



Disable



\*\*Enable



Exit Setup

# Function Key Output Mode



Enter Setup



\*\*Ctrl Char Mode



Alt + Unicode Mode



Exit Setup

## Appendix A - Digit Barcodes



0



1



2



3



4



5

## Appendix A - Digit Barcodes



6



7



8



9

## Appendix B – Symbolologies Table



UPC A



UPC E



EAN 8



EAN 13



Code 128



Code 39



## Appendix B – Symbolologies Table



Code 93



Code 32



Code 11



Codabar



Plessey



MSI Plessey

## Appendix B – Symbolologies Table



Interleaved 2 of 5



IATA 2 of 5



Matrix 2 of 5



Straight 2 of 5



Pharmacode



GS1 DataBar 14

## Appendix B – Symbolologies Table



GS1 DataBar Expanded



GS1 DataBar Limited



GS1 DataBar 14 Stacked



GS1 DataBar Expanded Stacked



Composite Code-A



Composite Code-B

## Appendix B – Symbolologies Table



Composite Code-C



PDF417



Micro PDF417



Data Matrix



QR



Micro QR

## Appendix C - ASCII Code Table

Hexadecimal	Decimal	ASCII	Function Key Mapping		
			Disable	Ctrl Char	Alt+Unicode
00	0	NUL	Null	Ctrl+@	Alt + 000
01	1	SOH	Home	Ctrl+A	Alt + 001
02	2	STX	End	Ctrl+B	Alt + 002
03	3	ETX	Up Arrow	Ctrl+C	Alt + 003
04	4	EOT	Down Arrow	Ctrl+D	Alt + 004
05	5	ENQ	Left Arrow	Ctrl+E	Alt + 005
06	6	ACK	Right Arrow	Ctrl+F	Alt + 006
07	7	BEL	Null	Ctrl+G	Alt + 007
08	8		Backspace	Backspace	Alt + 008
09	9		TAB	TAB	Alt + 009
0A	10	LF	Null	Ctrl+J	Alt + 010
0B	11	VT	Null	Ctrl+K	Alt + 011
0C	12	FF	Null	Ctrl+L	Alt + 012
0D	13		Enter	Enter	Enter
0E	14	SO	Page Up	Ctrl+N	Alt + 014
0F	15	SI	Page Down	Ctrl+O	Alt + 015

## Appendix B – Symbolologies Table



Aztec







MaxiCode







DotCode





Hexadecimal	Decimal	ASCII	Function Key Mapping		
			关闭	Ctrl Char	Alt+Unicode
10	16	DLE	F11	Ctrl+P	Alt + 016
11	17	DC1	Null	Ctrl+Q	Alt + 017
12	18	DC2	Null	Ctrl+R	Alt + 018
13	19	DC3	Null	Ctrl+S	Alt + 019
14	20	DC4	Null	Ctrl+T	Alt + 020
15	21	NAK	F12	Ctrl+U	Alt + 021
16	22	SYN	F1	Ctrl+V	Alt + 022
17	23	ETB	F2	Ctrl+W	Alt + 023
18	24	CAN	F3	Ctrl+X	Alt + 024
19	25	EM	F4	Ctrl+Y	Alt + 025
1A	26	SUB	F5	Ctrl+Z	Alt + 026
1B	27	ESC	F6	Ctrl+[	Alt + 027
1C	28	FS	F7	Ctrl+\	Alt + 028
1D	29	GS	F8	Ctrl+]	Alt + 029
1E	30	RS	F9	Ctrl+^	Alt + 030
1F	31	US	F10	Ctrl+_	Alt + 031





Hexadecimal	Decimal	ASCII	
20	32	SPACE	
21	33	!	
22	34	"	
23	35	#	











Hexadecimal	Decimal	ASCII	
24	36	\$	
25	37	%	
26	38	&	
27	39	'	





Hexadecimal	Decimal	ASCII	
28	40	(	
29	41	)	
2A	42	*	
2B	43	+	

Hexadecimal	Decimal	ASCII	
2C	44	,	
2D	45	-	
2E	46	.	
2F	47	/	

Hexadecimal	Decimal	ASCII	
30	48	0	
31	49	1	
32	50	2	
33	51	3	




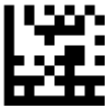
Hexadecimal	Decimal	ASCII	
34	52	4	
35	53	5	
36	54	6	
37	55	7	





Hexadecimal	Decimal	ASCII	
38	56	8	
39	57	9	
3A	58	:	
3B	59	;	





Hexadecimal	Decimal	ASCII	
3C	60	<	
3D	61	=	
3E	62	>	
3F	63	?	





Hexadecimal	Decimal	ASCII	
40	64	@	
41	65	A	
42	66	B	
43	67	C	











Hexadecimal	Decimal	ASCII	
44	68	D	
45	69	E	
46	70	F	
47	71	G	





Hexadecimal	Decimal	ASCII	
48	72	H	
49	73	I	
4A	74	J	
4B	75	K	





Hexadecimal	Decimal	ASCII	
4C	76	L	
4D	77	M	
4E	78	N	
4F	79	O	

Hexadecimal	Decimal	ASCII	
50	80	P	
51	81	Q	
52	82	R	
53	83	S	





Hexadecimal	Decimal	ASCII	
54	84	T	
55	85	U	
56	86	V	
57	87	W	





Hexadecimal	Decimal	ASCII	
58	88	X	
59	89	Y	
5A	90	Z	
5B	91	[	





Hexadecimal	Decimal	ASCII	
5C	92	\	
5D	93	]	
5E	94	^	
5F	95	-	





Hexadecimal	Decimal	ASCII	
60	96	,	
62	97	a	
62	98	b	
63	99	c	











Hexadecimal	Decimal	ASCII	
64	100	d	
65	101	e	
66	102	f	
67	103	g	





Hexadecimal	Decimal	ASCII	
68	104	h	
69	105	i	
6A	106	j	
6B	107	k	

Hexadecimal	Decimal	ASCII	
6C	108	l	
6D	109	m	
6E	110	n	
6F	111	o	

Hexadecimal	Decimal	ASCII	
70	112	p	
71	113	q	
72	114	r	
73	115	s	

Hexadecimal	Decimal	ASCII	
74	116	t	
75	117	u	
76	118	v	
77	119	w	

Hexadecimal	Decimal	ASCII	
78	120	x	
79	121	y	
7A	122	z	
7B	123	{	

Hexadecimal	Decimal	ASCII	
7C	124		
7D	125	}	
7E	126	~	
7F	127	Delete	

# Appendix D – Function Key Table



Insert



Delete



Home



End



Up Arrow



Down Arrow



# Appendix D – Function Key Table



Left Arrow



Right Arrow



Shift



ESC



Ctrl



Alt

# Appendix D – Function Key Table



Page Up



Page Down



F1



F2



F3



F4

# Appendix D – Function Key Table



F5



F6



F7



F8



F9



F10



F11



F12