

MK-5500

**2D Imager Barcode Scanner
Configuration Guide**

V1.4

Table of Contents

1	Getting Started	3
1.1	About This Guide	3
1.2	Barcode Scanning	3
1.3	Factory Defaults	3
2	Communication Interfaces	4
2.1	TTL-232 Cable Select	4
2.2	TTL-232 Interface	5
2.3	Baud Rate	6
2.4	Data Bit & Parity Check & Stop Bit	7
2.5	USB Interface	8
2.6	USB HID-KBW	8
2.7	USB Country Keyboard Types	9
2.8	Convert Case	12
2.9	USB COM Port Emulation	12
3	General Configuration	13
3.1	Trigger Mode	13
3.2	Continue Mode	13
3.3	Video Reverse	14
3.4	Beeper - Good Read	14
3.5	Beeper Tone - Good Read	14
3.6	Beeper Duration - Good Read	15
3.7	Beeper Number - Good Read	15
3.8	Barcode Scanning Delay	16
4	Data Formatting	17
4.1	General Configuration	17
4.2	Add Prefix	18
4.3	Add Suffix	19
4.4	Clear All Prefix and Suffix	19
5	Symbologies	20

5.1	General Settings.....	20
5.2	1D Symbologies	21
5.2.1	Code 128.....	21
5.2.2	EAN-8.....	22
5.2.3	EAN-13.....	23
5.2.4	UPC-E.....	26
5.2.5	UPC-A.....	29
5.2.6	Interleaved 2 of 5.....	31
5.2.7	Matrix 2 of 5	32
5.2.8	Industrial 2 of 5.....	33
5.2.9	Code 39.....	34
5.2.10	Coda bar.....	35
5.2.11	Code 93.....	38
5.2.12	GS1-128.....	40
5.2.13	MSI.....	41
5.3	2D Symbologies	43
5.3.1	PDF 417.....	43
5.3.2	QR Code	45
5.3.3	Data Matrix.....	47
5.3.4	Maxi code	48
5.3.5	Aztec	49
5.3.6	Hanxin	50
5.4	Postal Symbologies	51
5.4.1	China Postal Code	51
5.4.2	Telepen	52
6	Appendix.....	53
6.1	Appendix 2: AIM ID Table	53
6.2	Appendix 4: Digit Barcodes.....	57

1. Getting Started

1.1 About This Guide

This guide provides programming instructions for the MK-5500 2D BARCODER READER. Users can configure the SMK-5500 2D BARCODER READER by scanning the programming barcodes included in this manual.

1.2 Barcode Scanning

Powered by area-imaging technology and MK-5500 2D BARCODER READER patented “Hercules” technology, the MK-5500 2D BARCODER READER features fast scanning and decoding accuracy. Barcodes rotated at any angle can still be read with ease. When scanning a barcode, simply center the aiming beam or pattern projected by the MK-5500 2D BARCODER READER over the barcode.

1.3 Factory Defaults

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



Restore All Factory Defaults



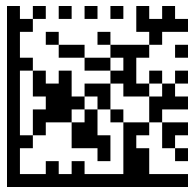
Report Firmware version

2. Communication Interfaces

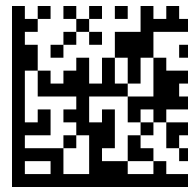
The MK-5500 2D BARCODER READER provides a TTL-232 interface and a USB interface to communicate with the host device. The host device can receive scanned data and send commands to control the engine or to access/alter the configuration information of the engine via the TTL-232 or USB interface.

2.1 TTL-232 Cable Select

Before using Serial Communication interface, scanner must be set as TTL-232 cable. Please reset the scanner after set 232-cable.



232 Cable



Reset

2.2 TTL-232 Interface

Serial communication interface is usually used when connecting the MK-5500 to a host device (like PC, POS). However, to ensure smooth communication and accuracy of data, you need to set communication parameters (including baud rate, parity check, data bit and stop bit) to match the host device.

The serial communication interface provided by the MK-5500 is based on TTL-level signals. TTL-232 can be used for most application architectures. For those requiring RS-232, an external conversion circuit is needed. The conversion circuit is available only to some models.



Serial communication

Default serial communication parameters are listed below. Make sure all parameters match the host requirements.

Parameter	Factory Default
Serial Communication	Standard TTL-232
Baud Rate	115200
Parity Check	None
Data Bits	8
Stop Bits	1
Hardware Flow Control	None

2.3 Baud Rate

Baud rate is the number of bits of data transmitted per second. Set the baud rate to match the Host requirements.



2400



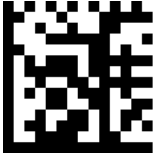
4800



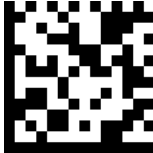
9600



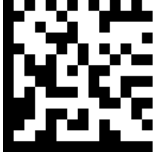
19200



38400



57600

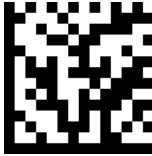


115200

2.4 Data Bit & Parity Check & Stop Bit



None Parity /8 Data Bits/1 Stop Bit



None Parity /7 Data Bits/1 Stop Bit



None Parity /7 Data Bits/2 Stop Bits



Even Parity /8 Data Bits/1 Stop Bit



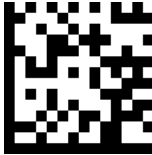
Even Parity /7 Data Bits/1 Stop Bit



Even Parity /7 Data Bits/2 Stop Bits



Odd Parity /8 Data Bits/1 Stop Bit



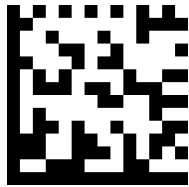
Odd Parity /7 Data Bits/1 Stop Bit



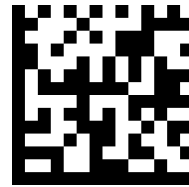
Odd Parity /7 Data Bits/2 Stop Bit

2.5 USB Interface

Before using USB Communication interface, scanner must be set as USB cable. Please reset the scanner after set USB cable.



USB Cable



Reset

2.6 USB HID-KBW

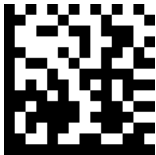
When you connect the MK-5500 to the Host via a USB connection, you can enable the **USB HID-KBW** feature by scanning the barcode below. Then MK-5500 transmission will be simulated as USB keyboard input. The Host receives keystrokes on the virtual keyboard. It works on a Plug and Play basis and no driver is required.



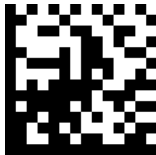
USB HID-KBW

2.7 USB Country Keyboard Types

Keyboard layouts vary from country to country. The default setting is 1-U.S. keyboard.



1 - U.S.



2 - UK



3 - Denmark



4 - France



5 - Finland



6 - Turkey_F



7 - Italy



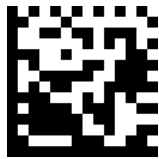
8 - Norway



9 - Albania



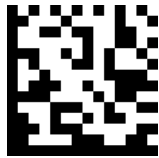
10 - Belgium



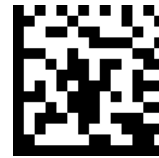
11 – Bosnia



12 – Brazil



13 – Croatia



14 – Czech



15 –Dutch



16 – Estonia



17 – Germany



18 – Greek



19 – Hungary



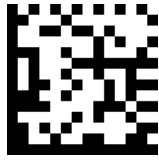
20 – Irish



21 – Latvia



22-Lithunnia



23 – Macedonia



24 – Spain



25 – Poland



26 –Portugal



27 –Romania



28 –Russia



29 – Japan

2.8 Convert Case

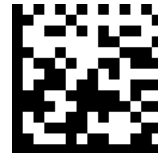
Scan the appropriate barcode below to convert barcode data to your desired case.



No Case Conversion



Convert All to Upper Case



Convert All to Lower Case

Example: When the **Convert All to Lower Case** feature is enabled, barcode data “AbC” is transmitted as “abc”.

2.9 USB COM Port Emulation

If you connect the engine to the Host via a USB connection, the **USB COM Port Emulation** feature allows the Host to receive data in the way as a serial port does. A driver is required for this feature.



USB COM Port Emulation

3. General Configuration

3.1 Trigger Mode

If the Trigger Mode is enabled, you could activate the scanner by providing an external hardware trigger, or using a serial trigger command. When in manual trigger mode, the scanner scans until a barcode is read, or until the hardware trigger is released. When in serial mode, the scanner scans until a barcode has been read or until the deactivate command is sent.



Trigger Mode

3.2 Continue Mode

This set the scanner to work in Continue mode.

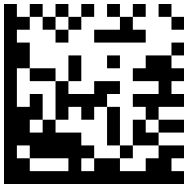


Continue Mode

3.3 Video Reverse

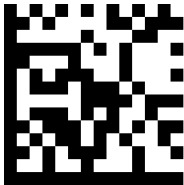


On

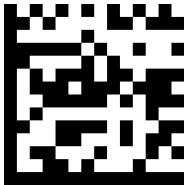


Off

3.4 Beeper - Good Read



On

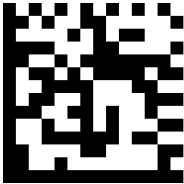


Off

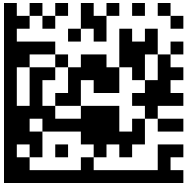
3.5 Beeper Tone - Good Read



Low

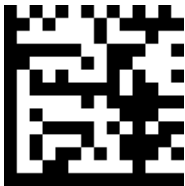


Middle



High

3.6 Beeper Duration - Good Read

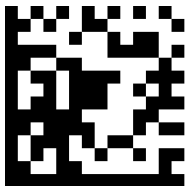


Normal

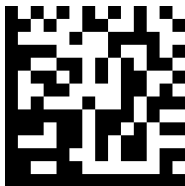


Short

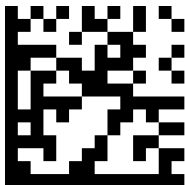
3.7 Beeper Number - Good Read



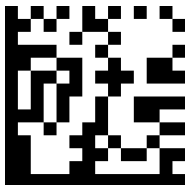
1



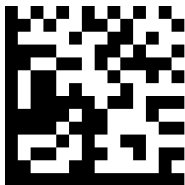
2



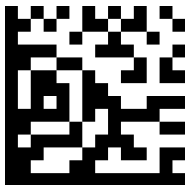
3



4

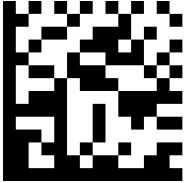


5

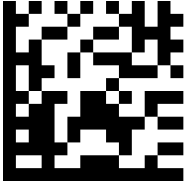


6

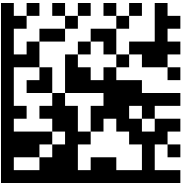
3.8 Barcode Scanning Delay



No Delay



Delay 500MS



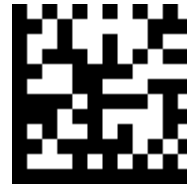
Delay 2000ms

4. Data Formatting

4.1 General Configuration



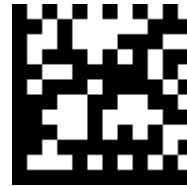
Add CR



Add LF

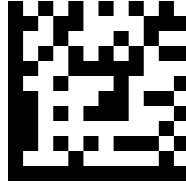


Add CRLF

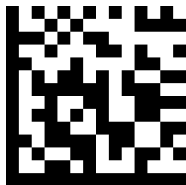


Add TAB

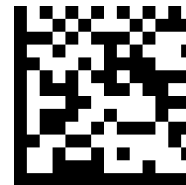
4.2 Add Prefix



Set Custom Prefix



Save



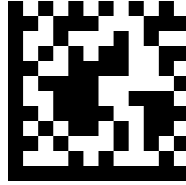
Not Save

To set a customer prefix, scan the “Set Custom Prefix” barcode and the numeric barcodes which representing the hexadecimal values of a desired prefix, and then scan the “Save” barcode. Refer to Appendix 4: ASCII Table for hexadecimal values of characters.

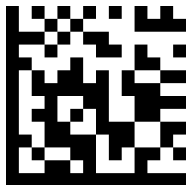
Example: Set the custom Prefix to “ODE”

1. Check the hex values of “ODE” in the ASCII Table. (“ODE”: 4F, 44, 45)
2. Scan the **Set Custom Prefix** barcode.
3. Scan the numeric barcodes “9”, “9”, “4”, “F”, “4”, “4”, “4” and “5” in Appendix 5 .
4. Scan the **Save** barcode.

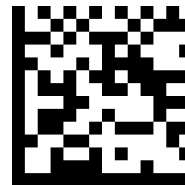
4.3 Add Suffix



Set Custom Suffix



Save



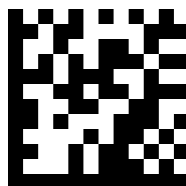
Not Save

To set a customer suffix, scan the “Set Custom Suffix” barcode and the numeric barcodes which representing the hexadecimal values of a desired suffix, and then scan the “Save” barcode. Refer to Appendix 4: ASCII Table for hexadecimal values of characters.

Example: Set the custom Suffix to “ODE”

1. Check the hex values of “ODE” in the ASCII Table. (“ODE”: 4F, 44, 45)
2. Scan the **Set Custom Suffix** barcode.
3. Scan the numeric barcodes “9”, “9”, “4”, “F”, “4”, “4”, “4” and “5” in Appendix 5 .
4. Scan the **Save** barcode.

4.4 Clear All Prefix and Suffix



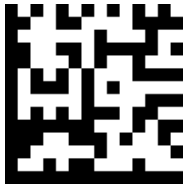
Clear all prefix and suffix

5. Symbologies

5.1 General Settings

Enable/Disable All Symbologies

If the **Disable All Symbologies** feature is enabled, the engine will not be able to read any non-programming barcodes except the programming barcodes.



Enable All Symbologies



Disable All Symbologies

5.2 1D Symbologies

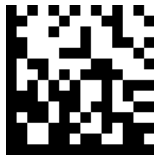
5.2.1 Code 128

Restore Factory Defaults

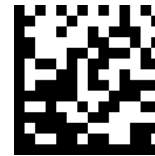


Restore the Factory Defaults of Code 128

Enable/Disable Code 128



Enable Code 128



Disable Code 128

Message Length

Message length can be set to the maximum value or minimum value. The value between the maximum and the minimum is valid.

The maximum value and minimum value can be set using “Programming Command”. Please check the programming command guide for the detail.

Code 128 max length command: 020A03. The parameter of this command can be set from min to 90.

Code 128 min length command: 020A02. The parameter of this command can be set from 0 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

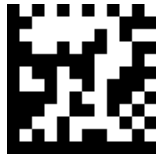
Programming command:

Max: 020A0325.

Min: 020A0210.

5.2.2 EAN-8

Restore Factory Defaults



Restore the Factory Defaults of EAN-8

Enable/Disable EAN-8



Enable EAN-8



Disable EAN-8

Transmit Check Digit

EAN-8 is 8 digits in length with the last one as its check digit used to verify the accuracy of the data.



Transmit EAN-8 Check Digit



Do Not Transmit EAN-8 Check Digit

Add-On Code

An EAN-8 barcode can be augmented with a two-digit or five-digit add-on code on code on code to form a new one. In the examples below, the part surrounded by blue dotted line is an EAN-8 barcode while the part circled by red dotted line is add-on code.





Enable 2-Digit Add-On Code



Disable 2-Digit Add-On Code



Enable 5-Digit Add-On Code

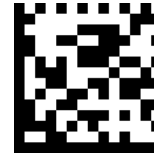


Disable 5-Digit Add-On Code

Add-On Code Required



EAN-8 Add-On Code Required



EAN-8 Add-On Code Not Required

ENA/JAN-8 Addenda Separator

When this feature is enabled, there is a space between barcode and addenda. When this feature is disabled, there is no space.



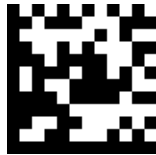
Enable ENA/JAN-8 Addenda Separator



Disable ENA/JAN-8 Addenda Separator UPC

5.2.3 EAN-13

Restore Factory Defaults

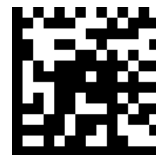


Restore the Factory Defaults of EAN-13

Enable/Disable EAN-13



Enable EAN-13



Disable EAN-13

Transmit Check Digit



Transmit EAN-13 Check Digit



Do Not Transmit EAN-13 Check Digit

Add-On Code



Enable 2-Digit Add-On Code



Disable 2-Digit Add-On Code



Enable 5-Digit Add-On Code



Disable 5-Digit Add-On Code

Add-On Code Required



EAN-13 Add-On Code Required



EAN-13 Add-On Code Not Required

ENA/JAN-13 Addenda Separator

When this feature is enabled, there is a space between barcode and addenda. When this feature is disabled, there is no space.



Enable ENA/JAN-13 Addenda Separator



Disable ENA/JAN-13 Addenda Separator

ISBN Translate

When enable this feature and is scanned, ENA13 Book land symbols are translated into their equivalent ISBN number format.



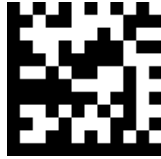
Enable ISBN Translate



Disable ISBN Translate

5.2.4 UPC-E

Restore Factory Defaults

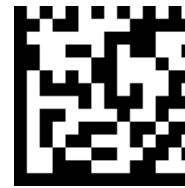


Restore the Factory Defaults of UPC-E

Enable/Disable UPC-E0/E1



Enable UPC-E0



Disable UPC-E0

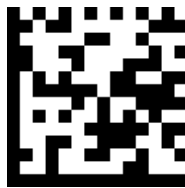


Enable UPC-E1

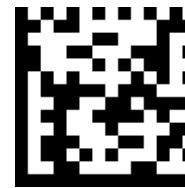


Disable UPC-E1

UPCE0 Check Digit



Enable UPC-E0 Check Digit



Disable UPC-E0 Check Digit

UPCE0 Expand

UPCE0 expand expands the UPCE code to the 12 digits, UPC-A format.



Enable UPC-E0 Expand



Disable UPC-E0 Expand

UPCE0 Addenda Required

When required is scanned, the scanner will only read UPC-E barcodes that have addenda.



Enable UPC-E0 Required



Disable UPC-E0 Required

UPCE0 Addenda Separator



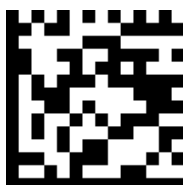
Enable UPC-E0 Separator



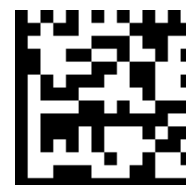
Disable UPC-E0 Separator

UPCE0 Number System

The number system digit of UPC symbol is normally transmitted at the beginning of the scanned data, but the unit can be programmed so it will be not transmitted.



Enable UPC-E0 Number System



Disable UPC-E0 Number System

UPCE0 Addenda



Enable 2 Digit Addenda



Disable 2 Digit Addenda



Enable 5 Digit Addenda



Disable 5 Digit Addenda

5.2.5 UPC-A

Restore Factory Defaults



Restore the Factory Defaults of UPC-A

Enable/Disable UPC-A



Enable UPC-A



Disable UPC-A

UPC-A Check Digit



Enable UPC-A Check Digit



Disable UPC-A Check Digit

UPC-A Addenda Required

When required is scanned, the scanner will only read UPC-E barcodes that have addenda.



Enable UPC-A Required



Disable UPC-A Required

UPC-A Addenda Separator



Enable UPC-A Separator



Disable UPC-A Separator

UPC-A: Number System

The number system digit of UPC symbol is normally transmitted at the beginning of the scanned data, but the unit can be programmed so it will be not transmitted.



Enable UPC-A Number System

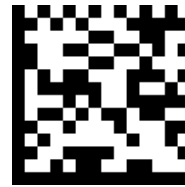


Disable UPC-A Number System

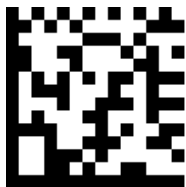
UPC-A: Addenda



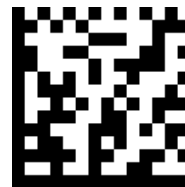
Enable 2 Digit Addenda



Disable 2 Digit Addenda



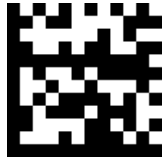
Enable 5 Digit Addenda



Disable 5 Digit

5.2.6 Interleaved 2 of 5

Restore Factory Defaults



Restore the Factory Defaults of Interleaved 2 of 5

Enable/Disable Interleaved 2 of 5



Enable Interleaved 2 of 5



Disable Interleaved 2 of 5

Message Length

Message length can be set to the maximum value, minimum value. The data between the maximum and the minimum is valid.

The maximum value and minimum value can be set using Programming Command. Please check the programming command guide for the detail.

Interleaved 2 of 5 max length command: 020404. The parameter of this command can be set from min to 80.

Interleaved 2 of 5 min length command: 020403. The parameter of this command can be set from 2 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command

Max: 02040425.

Min: 02040310.

Interleaved 2 of 5 Check Digit



No check Char



Validate and Transmit



Validate not Transmit

5.2.7 Matrix 2 of 5

Restore Factory Defaults



Restore the Factory Defaults of Matrix 2 of 5

Enable/Disable Matrix 2 of 5



Enable Matrix 2 of 5



Disable Matrix 2 of 5

Message length can be set to the maximum value, minimum value. The value is valid between the maximum and the minimum.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

Matrix 2 of 5 max length command: 020803. The parameter of this command can be set from min to 80.

Matrix 2 of 5 min length command: 020802. The parameter of this command can be set from 1 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command

Max: 02080325.

Min: 02080210.

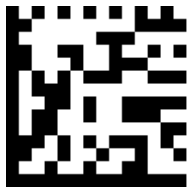
5.2.8 Industrial 2 of 5

Restore Factory Defaults

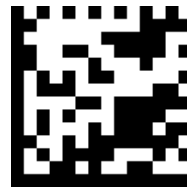


Restore the Factory Defaults of Industrial 2 of 5

Enable/Disable Industrial 2 of 5



Enable Industrial 2 of 5



Disable Industrial 2 of 5

Message Length

Message length can be set to the maximum value, minimum value. The value is valid between the maximum and the minimum.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

Industrial 2 of 5 max length command: 020603. The parameter of this command can be set from min to 48.

Industrial 2 of 5 min length command: 020602. The parameter of this command can be set from 1 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

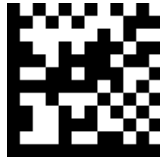
Programming command

Max: 02060325.

Min: 02060210.

5.2.9 Code 39

Restore Factory Defaults



Restore the Factory Defaults of Code 39

Enable/Disable Code 39



Enable Code 39



Disable Code 39

Transmit Start/Stop Character

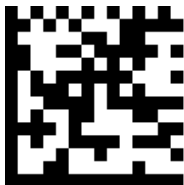


Transmit Start/Stop Character

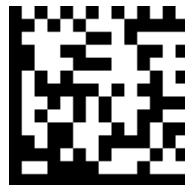


Do not Transmit Start/Stop Character

Code 39 Check Character



No Check Char



Validate and Transmit



Validate no Transmit

Code 39 Append

This function allows the scanner to append several Code 39 barcode data together before transmitting to host. When the scanner encounters a Code 39 barcode with append character (ex. Space character), it buffers the data until it reads a Code 39 barcode which does not have append character. Then the data is transmitted in the order that the barcodes were read.



Enable Append



Disable Append

Code 39 Full ASCII



Enable Code 39 Full ASCII



Disable Code 39 Full ASCII

Code 39 Code Page

Code 39 code pages define the mapping of character codes to characters.



Code 39 Code page

Message Length

Message length can be set to the maximum value, minimum value. The value is valid between the maximum and the minimum.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

Code 39 max length command: 020308. The parameter of this command can be set from min to 48.

Code 39 min length command: 020307. The parameter of this command can be set from 0 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

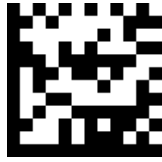
Programming command

Max: 02030825.

Min: 02030710.

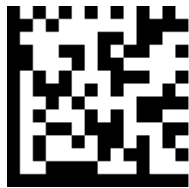
5.2.10 Coda bar

Restore Factory Defaults



Restore the Factory Defaults of Coda bar

Enable/Disable Codabar



Enable Coda bar



Disable Coda bar

Message Length

Message length can be set to the maximum value, minimum value. The data between the maximum and the minimum is valid.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

Coda bar max length command: 020206. The parameter of this command can be set from min to 60.

Coda bar min length command: 020205. The parameter of this command can be set from 2 to max.

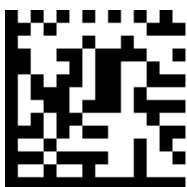
Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command

Max: 02020625.

Min: 02020510.

Transmit Start/Stop Character



Transmit Start/Stop Character

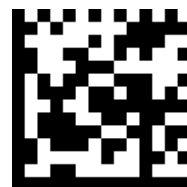


Do not Transmit Start/Stop Character

Coda bar Check Character



No Check Char



Validate and Transmit



Validate no Transmit

5.2.11 Code 93

Restore Factory Defaults



Restore the Factory Defaults of Code 93

Enable/Disable Code 93



Enable Code 93



Disable Code 93

Message Length

Message length can be set to the maximum value, minimum value. The data between the maximum and the minimum is valid.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

Code 93 max length command: 020D03. The parameter of this command can be set from min to 80.

Code 93 min length command: 020D02. The parameter of this command can be set from 0 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command

Max: 020D0325.

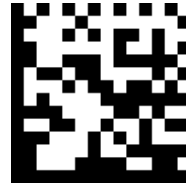
Min: 020D0210.

Code 93 Append

This function allows the scanner to append several Code 93 barcode data together before transmitting to host. When the scanner encounters a Code 93 barcode with append character (ex. Space character), it buffers the data until it reads a Code 93 barcode which does not have append character. Then the data is transmitted in the order that the barcodes were read.



Enable Code 93 Append



Disable Code 93 Append

Code 93 Code Page

Code 39 code pages define the mapping of character codes to characters.



Code93 Code page

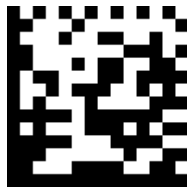
5.2.12 GS1-128

Restore Factory Defaults



Restore the Factory Defaults of GS1-128

Enable/Disable GS1-128



Enable GS1-128



Disable GS1-128

Message Length

Message length can be set to the maximum value, minimum value. The data between the maximum and the minimum is valid.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

GS1-128 max length command: 020B03. The parameter of this command can be set from min to 80.

GS1-128 min length command: 020B02. The parameter of this command can be set from 0 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command

Max: 020B0325.

Min: 020B0210.

5.2.13 MSI

Restore Factory Defaults



Restore the Factory Defaults of MSI

Enable/Disable MSI



Enable MSI



Disable MSI

Message Length

Message length can be set to the maximum value, minimum value. The data is valid between the maximum and the minimum.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

MSI max length command: 020E04. The parameter of this command can be set from min to 48.

MSI min length command: 020E03. The parameter of this command can be set from 4 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command

Max: 020E0425.

Min: 020E0310.

MSI Check Character



ValidateType10Transmit



ValidateType10 ThenType11CharTransmit



ValidateType10 ThenType11CharNoTransmit



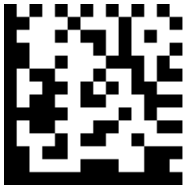
ValidateType10NoTransmit



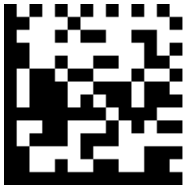
Validate2Type10NoTransmit



Validate2Type10CharTransmit



Validate2Type10CharNoTransmit



DisableMSICheck

5.3 2D Symbologies

5.3.1 PDF 417

Restore Factory Defaults



Restore the Factory Defaults of PDF 417

Enable/Disable PDF 417

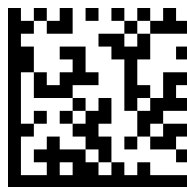


Enable PDF 417

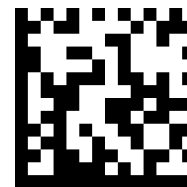


Disable PDF 417

Enable/Disable Micro PDF 417



Enable Micro PDF 417



Disable Micro PDF 417

Message Length

Message length can be set to the maximum value, minimum value. The data is valid between the maximum and the minimum.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

PDF417 max length command: 021F06. The parameter of this command can be set from min to 2750.

PDF417 min length command: 021F05. The parameter of this command can be set from 1 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

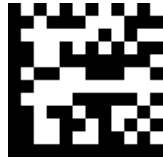
Programming command

Max: 021F0625

Min: 021F0510.

5.3.2 QR Code

Restore Factory Defaults

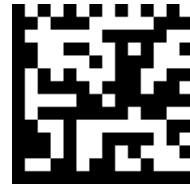


Restore the Factory Defaults of QR Code

Enable/Disable QR Code



Enable QR Code



Disable QR C

Message Length

Message length can be set to the maximum value, minimum value. The data is valid between the maximum and the minimum is valid.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

QR max length command: 023703. The parameter of this command can be set from min to 7089.

QR min length command: 023702. The parameter of this command can be set from 1 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command

Max: 02370325.

Min: 02370210.

QR Code Append

This function allows the scanner to append several QR barcode data together before transmitting to host. When the scanner encounters a QR barcode with append character (ex. Space character), it buffers the data until it reads a QR barcode which does not have append character. Then the data is transmitted in the order that the barcodes were read.



Enable QR code Append



Disable QR code Append

QR Code Page

QR code pages define the mapping of character codes to characters.



QR Code Page

5.3.3 Data Matrix

Restore Factory Defaults

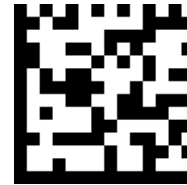


Restore the Factory Defaults of Data Matrix

Enable/Disable Data Matrix



Enable Data Matrix



Disable Data Matrix

Message Length

Message length can be set to the maximum value, minimum value. The data is valid between the maximum and the minimum.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

Data Matrix max length command: 023603. The parameter of this command can be set from min to 3116.

Data Matrix min length command: 023602. The parameter of this command can be set from 1 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command

Max: 02360325.

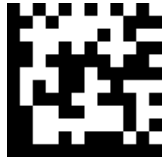
Min: 02360210.



Data Matrix Code Page

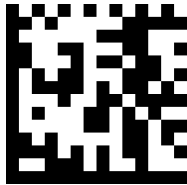
5.3.4 Maxi code

Restore Factory Defaults



Restore the Factory Defaults of Maxi code

Enable/Disable Maxi code



Enable Maxi code



Disable Maxi code

Message Length

Message length can be set to the maximum value, minimum value. The data is valid between the maximum and the minimum.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

Maxi Code max length command: 023403. The parameter of this command can be set from min to 150.

Maxi Code min length command: 023402. The parameter of this command can be set from 1 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command

Max: 02340325.

Min: 02340210.

5.3.5 Aztec

Restore Factory Defaults



Restore the Factory Defaults of Aztec

Enable/Disable Aztec



Enable Aztec



Disable Aztec

Message Length

Message length can be set to the maximum value, minimum value. The data is valid between the maximum and the minimum.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

Aztec max length command: 023306. The parameter of this command can be set from min to 3832.

Aztec min length command: 023305. The parameter of this command can be set from 1 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command

Max: 02330625.

Min: 02330510.

Aztec Append



Enable Aztec Append



Disable Aztec Append

5.3.6 Hanxin

Restore Factory Defaults



Restore the Factory Defaults of Hanxin

Enable/Disable Hanxin



Enable Hanxin



Disable Hanxin

Message Length

Message length can be set to the maximum value, minimum value. The data is valid between the maximum and the minimum.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

Hanxin max length command: 023803. The parameter of this command can be set from min to 7833.

Hanxin min length command: 023802. The parameter of this command can be set from 1 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command

Max: 02380325.

Min: 02380210

5.4 Postal Symbologies

5.4.1 China Postal Code

Restore Factory Defaults



Restore the Factory Defaults of China Postal Code

Enable/Disable China Postal Code



Enable China Postal Code



Disable China Postal Code

5.4.2 Telepen

Restore Factory Defaults



Restore the Factory Defaults of Telepen

Enable/Disable Telepen



Enable China Telepen



Disable China Telepen

6. Appendix

6.1 Appendix 1: ASCII Table

Hex	Dec	Char
00	0	NUL (Null char.)
01	1	SOH (Start of Header)
02	2	STX (Start of Text)
03	3	ETX (End of Text)
04	4	EOT (End of Transmission)
05	5	ENQ (Enquiry)
06	6	ACK (Acknowledgment)
07	7	BEL (Bell)
08	8	BS (Backspace)
09	9	HT (Horizontal Tab)
0a	10	LF (Line Feed)
0b	11	VT (Vertical Tab)
0c	12	FF (Form Feed)
0d	13	CR (Carriage Return)
0e	14	SO (Shift Out)
0f	15	SI (Shift In)
10	16	DLE (Data Link Escape)
11	17	DC1 (XON) (Device Control 1)
12	18	DC2 (Device Control 2)
13	19	DC3 (XOFF) (Device Control 3)
14	20	DC4 (Device Control 4)
15	21	NAK (Negative Acknowledgment)
16	22	SYN (Synchronous Idle)
17	23	ETB (End of Trans. Block)
18	24	CAN (Cancel)
19	25	EM (End of Medium)
1a	26	SUB (Substitute)
1b	27	ESC (Escape)
1c	28	FS (File Separator)
1d	29	GS (Group Separator)
1e	30	RS (Request to Send)
1f	31	US (Unit Separator)

Hex	Dec	Char
20	32	SP (Space)
21	33	! (Exclamation Mark)
22	34	" (Double Quote)
23	35	# (Number Sign)
24	36	\$ (Dollar Sign)
25	37	% (Percent)
26	38	& (Ampersand)
27	39	` (Single Quote)
28	40) (Right / Closing Parenthesis)
29	41) (Right / Closing Parenthesis)
2a	42	* (Asterisk)
2b	43	+ (Plus)
2c	44	, (Comma)
2d	45	- (Minus / Dash)
2e	46	. (Dot)
2f	47	/ (Forward Slash)
30	48	0
31	49	1
32	50	2
33	51	3
34	52	4
35	53	5
36	54	6
37	55	7
38	56	8
39	57	9
3a	58	: (Colon)
3b	59	; (Semi-colon)
3c	60	< (Less Than)
3d	61	= (Equal Sign)
3e	62	> (Greater Than)
3f	63	? (Question Mark)

Hex	Dec	Char
40	64	@ (AT Symbol)
41	65	A
42	66	B
43	67	C
44	68	D
45	69	E
46	70	F
47	71	G
48	72	H
49	73	I
4a	74	J
4b	75	K
4c	76	L
4d	77	M
4e	78	N
4f	79	O
50	80	P
51	81	Q
52	82	R
53	83	S
54	84	T
55	85	U
56	86	V
57	87	W
58	88	X
59	89	Y
5a	90	Z
5b	91	[(Left / Opening Bracket)
5c	92	\ (Back Slash)
5d	93] (Right / Closing Bracket)
5e	94	^ (Caret / Circumflex)
5f	95	_ (Underscore)

Hex	Dec	Char
60	96	' (Grave Accent)
61	97	a
62	98	b
63	99	c
64	100	d
65	101	e
66	102	f
67	103	g
68	104	h
69	105	i
6a	106	j
6b	107	k
6c	108	l
6d	109	m
6e	110	n
6f	111	o
70	112	p
71	113	q
72	114	r
73	115	s
74	116	t
75	117	u
76	118	v
77	119	w
78	120	x
79	121	y
7a	122	z
7b	123	{ (Left/ Opening Brace)
7c	124	(Vertical Bar)
7d	125	} (Right/Closing Brace)
7e	126	~ (Tilde)
7f	127	DEL (Delete)

6.2 Appendix 2: Digit Barcodes

0 1 2 3



4 5 6 7



8 9 A B



C D E F

