

FD-011WU
2D Barcode Reader
User Guide

V1.6

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1 Getting Started

1.1 Factory Defaults

Scanning the following barcode can restore the FD-011WU to the factory defaults. **Note:** Use this feature with discretion.



OD0100.

Restore All Factory Defaults

2 Communication Interfaces

The 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 Interface

Before using Serial Communication interface, scanner must be configured as 232 interface.



232 Interface

Serial communication interface is usually used when connecting the engine 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 engine 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.

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

2.2 Baud Rate

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



0607023.

2400



0607024.

4800



0607025.

9600



0607026.

19200



0607027.

38400



0607028.

57600



0607029.

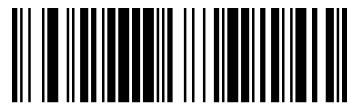
115200 (default)

2.3 Data Bit & Parity Check& Stop Bit



0607032.

None Parity /8 Data Bits/1 Stop Bit(default)



0607035.

Even Parity /8 Data Bits/1 Stop Bit



0607038.

Odd Parity /8 Data Bits/1 Stop Bit

2.4 USB HID-KB

When you connect the engine to the Host via a USB connection, you can enable the **USB HID-KB** feature by scanning the barcode below. Then scanner 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.



091809.

USB HID-KB

2.5 USB Country Keyboard Types

Keyboard layouts vary from country to country. The default setting is U.S. keyboard, and only U.S. keyboard is supported now.

2.6 Convert Case

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



060D020.

No Case Conversion (default)



060D021.

Convert All to Upper Case



060D022.

Convert All to Lower Case

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

2.7 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.



060500130.

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.



091A00.

Trigger Mode(default)

3.2 Presentation Mode

This set the scanner to work in Presentation mode.



090901.

Presentation Mode

3.3 Cell Phone Mode

If the Cell Phone Mode is enabled, the engine activates a special capturing image and illumination session.

If you want to enable Cell Phone reading in Trigger Mode, please scan below barcode:



091B00.

Trigger Mode with Cell Phone reading

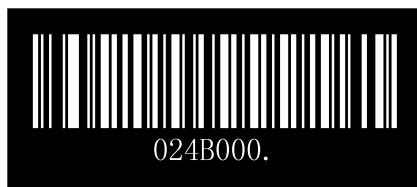
If you want to enable Cell Phone reading in Presentation Mode, please scan below barcode:



090902.

Presentation Mode with Cell Phone reading

3.4 Inverse color



Off(default)



024B001.



024B002.

3.5 Illumination for Trigger Mode

Illumination setting for Trigger Mode



High Level Illumination(default)



Mid Level Illumination 1



Mid Level Illumination 2



Low Level Illumination



Illumination OFF

3.6 Illumination for Presentation Mode

Illumination setting when in Scanning



0401000.

High Level Illumination(default)



0401001.

Mid Level Illumination 1



0401002.

Mid Level Illumination 2



0401003.

Low Level Illumination



0401004.

Illumination OFF

Illumination setting when in Idle



0401010.

High Level Illumination



0401011.

Mid Level Illumination 1



0401012.

Mid Level Illumination 2



0401013.

Low Level Illumination(default)



0401014.

Illumination OFF

3.7 Beeper - Good Read



0502101.

On (default)



0502100.

Off

3.8 Beeper Tone - Good Read



05021D1.

Low



05021D2.

Middle



05021D3.

High (default)

3.9 Beeper Duration - Good Read



0502160.

Normal (default)



0502161.

Short

3.10 Beeper Number - Good Read



05020E1.

1 (default)



05020E2.

2



05020E3.

3



05020E4.

4



05020E5.

5



05020E6.

6

3.11 Barcode Scanning Delay



080B080.

No Delay (default)



080B08500.

Delay 500MS



080B082000.

Delay 2000ms

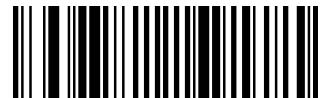
4 Data Formatting

4.1 General Configuration



090200.

Add CR



090202.

Add LF



090300.

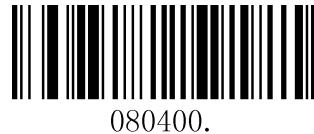
Add CRLF



090201.

Add TAB

4.2 Add Prefix



080400.

Set Custom Prefix



0D0400.

Save



0D0500.

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 2: 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



080500.

Set Custom Suffix



0D0400.

Save



0D0500.

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”, “0”, “4”, “F”, “4”, “4”, “4” and “5” in Appendix 5 .
4. Scan the **Save** barcode.

4.4 Clear All Prefix and Suffix



080404;080507.

Clear all prefix and suffix (default)

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 Symbolologies

5.2.1 Code 128

Restore Factory Defaults



020A00.

Restore the Factory Defaults of Code 128 (default)

Enable/Disable Code 128



020A011.

Enable Code 128 (default)



020A010.

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



021400.

Restore the Factory Defaults of EAN-8 (default)

Enable/Disable EAN-8



0214011.

Enable EAN-8 (default)



0214010.

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.



0214021.

Transmit EAN-8 Check Digit (default)



0214020.

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 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.





0214031.

Enable 2-Digit Add-On Code



0214030.

Disable 2-Digit Add-On Code (default)



0214041.

Enable 5-Digit Add-On Code



0214040.

Disable 5-Digit Add-On Code (default)

Add-On Code Required



0214051.

EAN-8 Add-On Code Required



0214050.

EAN-8 Add-On Code Not Required (default)

EAN/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.



0214061.

Enable EAN/JAN-8 Addenda Separator (default)

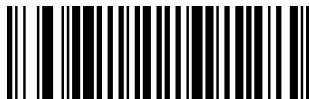


0214060.

Disable EAN/JAN-8 Addenda Separator

5.2.3 EAN-13

Restore Factory Defaults



021300.

Restore the Factory Defaults of EAN-13 (default)

Enable/Disable EAN-13



0213011.

Enable EAN-13 (default)



0213010.

Disable EAN-13

Transmit Check Digit



0213021.

Transmit EAN-13 Check Digit (default)



0213020.

Do Not Transmit EAN-13 Check Digit

Add-On Code



0213031.

Enable 2-Digit Add-On Code



0213030.

Disable 2-Digit Add-On Code (default)



0213041.

Enable 5-Digit Add-On Code



0213040.

Disable 5-Digit Add-On Code (default)

Add-On Code Required



0213051.

EAN-13 Add-On Code Required



0213050.

EAN-13 Add-On Code Not Required (default)

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.



0213061.

Enable ENA/JAN-13 Addenda Separator (default)



0213060.

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.



0213071.

Enable ISBN Translate



0213070.

Disable ISBN Translate (default)

5.2.4 UPC-E

Restore Factory Defaults



021200.

Restore the Factory Defaults of UPC-E (default)

Enable/Disable UPC-E0/E1



0212011.

Enable UPC-E0 (default)



0212010.

Disable UPC-E0



0212021.

Enable UPC-E1(default)



0212020.

Disable UPC-E1

UPCE0 Check Digit



0212041.

Enable UPC-E0 Check Digit (default)



0212040.

Disable UPC-E0 Check Digit

UPCE0 Expand

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



0212031.

Enable UPC-E0 Expand



0212030.

Disable UPC-E0 Expand (default)

UPCE0 Addenda Required

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



0212081.

Enable UPC-E0 Required



0212080.

Disable UPC-E0 Required (default)

UPCE0 Addenda Separator



0212091.

Enable UPC-E0 Separator (default)



0212090.

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.



0212051.

Enable UPC-E0 Number System (default)



0212050.

Disable UPC-E0 Number System

UPCE0 Addenda



0212061.

Enable 2 Digit Addenda



0212060.

Disable 2 Digit Addenda (default)



0212071.

Enable 5 Digit Addenda



0212070.

Disable 5 Digit Addenda (default)

5.2.5 UPC-A

Restore Factory Defaults



021100.

Restore the Factory Defaults of UPC-A (default)

Enable/Disable UPC-A



0211011.

Enable UPC-A (default)



0211010.

Disable UPC-A

UPC-A Check Digit



0211021.

Enable UPC-A Check Digit (default)

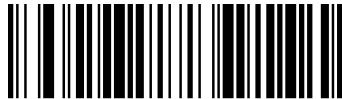


0211020.

Disable UPC-A Check Digit

UPC-A Addenda Required

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



0211061.

Enable UPC-A Required



0211060.

Disable UPC-A Required (default)

UPC-A Addenda Separator



0211071.

Enable UPC-A Separator (default)



0211070.

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.



0211031.

Enable UPC-A Number System (default)



0211030.

Disable UPC-A Number System

UPC-A: Addenda



0211041.

Enable 2 Digit Addenda



0211040.

Disable 2 Digit Addenda (default)



0211051.

Enable 5 Digit Addenda



0211050.

Disable 5 Digit (default)

5.2.6 Interleaved 2 of 5

Restore Factory Defaults



020400.

Restore the Factory Defaults of Interleaved 2 of 5 (default)

Enable/Disable Interleaved 2 of 5



0204011.

Enable Interleaved 2 of 5 (default)



0204010.

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



0204020.

No check Char (default)



0204022.

Validate and Transmit



0204021.

Validate not Transmit

5.2.7 Matrix 2 of 5

Restore Factory Defaults



020800.

Restore the Factory Defaults of Matrix 2 of 5 (default)

Enable/Disable Matrix 2 of 5



0208011.

Enable Matrix 2 of 5



0208010.

Disable Matrix 2 of 5 (default)

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.

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



020600.

Restore the Factory Defaults of Industrial 2 of 5 (default)

Enable/Disable Industrial 2 of 5



0206011.

Enable Industrial 2 of 5



0206010.

Disable Industrial 2 of 5 (default)

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



020300.

Restore the Factory Defaults of Code 39 (default)

Enable/Disable Code 39



0203011.

Enable Code 39 (default)



0203010.

Disable Code 39

Transmit Start/Stop Character



0203051.

Transmit Start/Stop Character



0203050.

Do not Transmit Start/Stop Character (default)

Code 39 Check Character



0203040.

No Check Char (default)



0203042.

Validate and Transmit



0203041.

Validate no Transmit

Code 39 Full ASCII



0203021.

Enable Code 39 Full ASCII



0203020.

Disable Code 39 Full ASCII (default)

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



020200.

Restore the Factory Defaults of Coda bar (default)

Enable/Disable Codabar



0202011.

Enable Coda bar (default)



0202010.

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



020201.

Transmit Start/Stop Character



020200.

Do not Transmit Start/Stop Character (default)

Coda bar Check Character



0202030.

No Check Char (default)



0202032.

Validate and Transmit



0202031.

Validate no Transmit

5.2.11 Code 93

Restore Factory Defaults



020D00.

Restore the Factory Defaults of Code 93 (default)

Enable/Disable Code 93



020D011.

Enable Code 93



020D010.

Disable Code 93 (default)

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.

5.2.12 GS1-128

Restore Factory Defaults



020B01.

Restore the Factory Defaults of GS1-128 (default)

Enable/Disable GS1-128



020B001.

Enable GS1-128 (default)



020B000.

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



020E00.

Restore the Factory Defaults of MSI (default)

Enable/Disable MSI



020E011.

Enable MSI



020E010.

Disable MSI (default)

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



020E020.

Validate Type 10, No Transmit (Default)



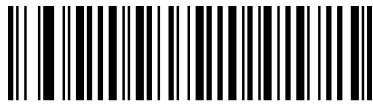
020E021.

Validate Type 10, Transmit



020E022.

Validate 2 Type 10 Characters, No Transmit



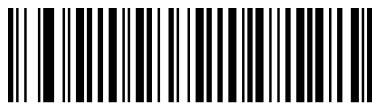
020E023.

Validate 2 Type 10 Characters, Transmit



020E024.

Validate Type 11 Then Type 10 Character, No Transmit



020E025.

Validate Type 11 Then Type 10 Characters, Transmit



020E026.

Disable MSI Check Characters

5.3 2D Symbologies

5.3.1 PDF 417

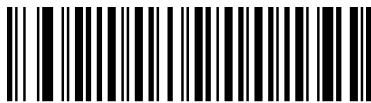
Restore Factory Defaults



021F00.

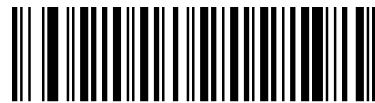
Restore the Factory Defaults of PDF 417 (default)

Enable/Disable PDF 417



021F011.

Enable PDF 417 (default)



021F010.

Disable 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 Micro PDF 417

Restore Factory Defaults



022000.

Restore the Factory Defaults of Micro PDF 417 (default)

Enable/Disable Micro PDF 417



0220011.

Enable PDF 417



0220010.

Disable PDF 417 (default)

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: 022003. The parameter of this command can be set from min to 2750.

PDF417 min length command: 022002. 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: 02200325.

Min: 02200310.

5.3.3 QR Code

Restore Factory Defaults



023700.

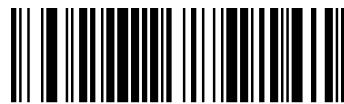
Restore the Factory Defaults of QR Code (default)

Enable/Disable QR Code



0237011.

Enable QR Code (default)



0237010.

Disable QR Code

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.

5.3.4 Data Matrix

Restore Factory Defaults



023600.

Restore the Factory Defaults of Data Matrix (default)

Enable/Disable Data Matrix



0236011.

Enable Data Matrix (default)



0236010.

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.

5.3.5 Maxi code

Restore Factory Defaults



023400.

Restore the Factory Defaults of Maxi code (default)

Enable/Disable Maxi code



0234011.

Enable Maxi code



0234010.

Disable Maxi code (default)

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.

5.3.6 Aztec

Restore Factory Defaults



023300.

Restore the Factory Defaults of Aztec (default)

Enable/Disable Aztec



0233011.

Enable Aztec



0233010.

Disable Aztec (default)

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.

5.3.7 Hanxin

Restore Factory Defaults



023800.

Restore the Factory Defaults of Hanxin (default)

Enable/Disable Hanxin



0238011.

Enable Hanxin



0238010.

Disable Hanxin (default)

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



021800.

Restore the Factory Defaults of China Postal Code (default)

Enable/Disable China Postal Code



0218011.

Enable China Postal Code



0218010.

Disable China Postal Code (default)

5.4.2 Telepen

Restore Factory Defaults



021000.

Restore the Factory Defaults of Telepen (default)

Enable/Disable Telepen



0210011.

Enable Telepen



0210010.

Disable Telepen (default)

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	,
2d	45	- (Minus / Dash)
2e	46	.
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	:
3b	59	;
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

