2D BARCODE SCANNER
USER MANUAL
MODEL 177603

MANHATTAN™

MAN-177603-UM-1110-01

TABLE OF CONTENTS

Section Page

1 Introduction 4
1.1 Safety Considerations 4
1.2 Hardware Features 4
2 Installation 5
3 Configuration 5
3.1 Changing Settings with Programming Codes 5
3.2 Factory Default Settings 5
4 Operating Settings 6
4.1 Scanning Triggering 6
4.2 Timeout 8
4.3 Good Read Mode 9
4.4 Buzzer Beep Tone 9
4.5 Good Read Duration 11
4.6 Bad Read Message Settings 12
5 Imager Settings 13
5.1 Imager Mode 13
5.2 Firmware Version 13
6 Programming Codes 14
6.1 Factory Default 14
6.2 RS232 Parameter 14
6.3 USB Parameter 22
6.4 Decoding Selection 22
6.5 Australian Post Settings 33
6.6 Aztec Settings 33
6.7 BPO Settings 34
6.8 Canada Post Settings 35
6.9 Codabar Settings 35

6.10 Codablock Settings 38
6.11 Code 11 Settings 39
6.12 Code 39 Settings 40
6.13 Code 93 / Code 93i Settings 43
6.14 Code 128 / GS1-128 Settings 43
6.15 DataMatrix Settings 46
6.16 Dutch Post Settings 47
6.17 Ean / UPC Parameters Settings 47
6.18 GS1 Composite Settings 52
6.19 GS1 Databar Settings 53
6.20 Infomail Settings 54
6.21 Interleaved 2 of 5 Parameters 54
6.22 Japan Post Settings 56
6.23 Matrix 2 of 5 Settings 56
6.24 MaxiCode Settings 57
6.25 MicroPDF417 Settings 58
6.26 MS Code Parameters Settings 59
6.27 PDF417 Settings 60
6.28 Planet Settings 62
6.29 Plessey Code Settings 63
6.30 Postnet Settings 64
6.31 QR Code Settings 64
6.32 Standard 2 of 5 Settings 65
6.33 Sweden Post Settings 66
6.34 Telepen Settings 66
6.35 TLC 39 Settings 67
6.36 Miscellaneous Parameters 68
6.37 Preambles and Postambles 68
7 Appendices 70
8 Specifications 74

1 INTRODUCTION

Thank you for purchasing the MANHATTAN® 2D Barcode Scanner, Model 177603.

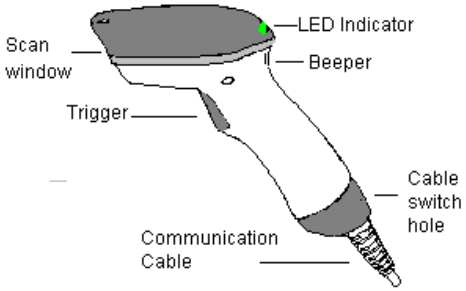
This scanner delivers high-quality scanning for a wide range of data collection functions to improve routine transactions, automate paper-based processes and increase productivity. The laser scan engine offers speed, accuracy and greater tolerances for reliable service reading popular 1D and 2D barcodes including UPC/EAN, UCC/EAN128, Data Matrix, PDF 417, Maxicode and more.

Easy to implement and simple to use, a built-in keyboard wedge decoder sends scanned data to an active application where it appears as if it were manually typed or directly keyed into the computer. Its versatile USB interface and bus power integrate with most PCs without the need of an external power supply or complicated installation. With a scan rate of 200 scans per second and an accurate read range of up to 430 mm (17 in.), the MANHATTAN 2D Barcode Scanner offers a practical daily scanning solution for point-of-sale, postal, hospitality, travel, shipping, warehousing, office and other commercial and industrial applications to minimize manual data entry, speed transactions and reduce errors.

1.1 SAFETY CONSIDERATIONS

- Before cleaning the scanner, disconnect it from the power source. Use only a damp cotton cloth for cleaning. Avoid liquid cleaners, as the scanner must be kept dry to prevent short circuits.
- Do not drop the scanner.
- Do not yank the power cord.
- If the scanner is not in use for an extended time period, disconnect it from the power source to prevent damage from power surges.
- Do not attempt to disassemble the scanner. If it isn't working properly — possibly due to a damaged cord/plug, liquid seeping inside, an overly humid environment or physical damage of any sort — present the scanner to a qualified technician for repair.

1.2 HARDWARE FEATURES



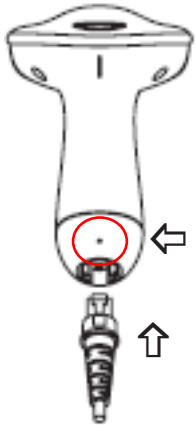
2 INSTALLATION

1. If the included communication cable isn't already attached to the scanner, connect it to the bottom of the handle so you hear it click in place.
2. Turn off the host system.
3. Connect the scanner's communication cable to the host system.
4. If using an optional power supply, use it now to connect the scanner to an AC outlet.
5. Turn on the host system.

Switching the Communication Cable

Before removing a connected cable from the scanner, it's recommended that the host system power be turned off and any power supply be disconnected from the scanner.

1. Insert a common pin or similar object into the pin hole just above the cable connection (as highlighted at right).
2. Push the pin into the hole until you hear a click, then gently remove the cable from the scanner handle.
3. Insert the replacement cable so you hear it click into place.



3 CONFIGURATION

You can set up your device by scanning all necessary programming codes for parameters that meet your current application requirements. After these scans, the device will save settings directly. To go back to the factory default settings, just scan the programming code Factory Default.

3.1 CHANGING SETTINGS WITH PROGRAMMING CODES

1. Turn on the scanner.
2. Change the scanner settings by scanning any of the programming codes that meet the requirements of the current application. After reading a valid programming code, the scanner will sound a high-pitched beep and the green LED will light.

NOTE: At any time, you can stop your programming and scan the Factory Default programming code to go back to the default setting(s).

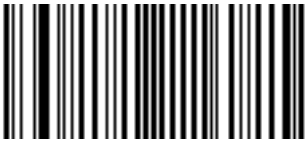
3.2 FACTORY DEFAULT SETTINGS

Throughtout this user manual, the factory default settings are printed in bold and are set inside brackets. See Section 7.3 for a list of readable and default enable symbologies.

4 OPERATING SETTINGS

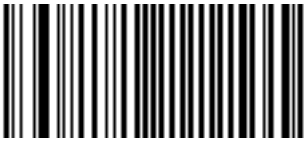
4.1 SCANNING TRIGGERING

<Level>



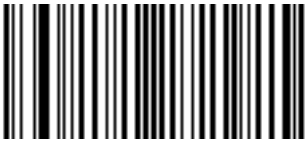
A reading session begins (lighting and decode processing on) when the beam is activated and stops when the beam is deactivated.

Continuous Scanning



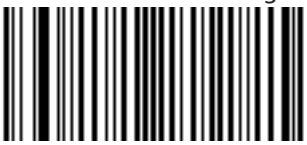
When the scanner is turned on, a continuous reading session begins (lighting and decode processing on).

Pulse



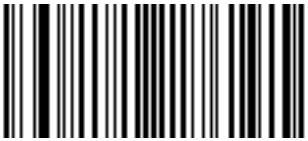
A reading session begins when the beam is activated and stays on until a period of inactivity equal to the time specified by the timeout. After the timeout, the scan engine turns off.

Continuous + Flashing



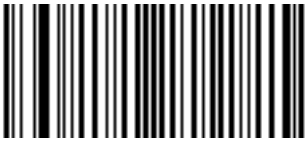
When the scan engine is turned on, a reading session begins (no need to activate the beam). After a period of inactivity equal to the time specified by the timeout, the scan engine starts flashing, checking for a barcode to be read. When a barcode is detected, the light automatically turns on and stays on until another period of inactivity (timeout). After the timeout, the scan engine starts flashing again.

Level + Flashing



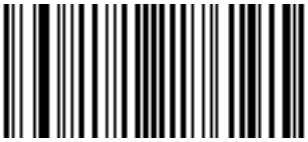
This mode allows you the switch between Level and Flashing modes. When the scanner is turned on, it is in Flashing mode (see Flashing below). You can automatically switch to Level mode by activating the beam line. After a period of inactivity equal to the time specified by the timeout, the scan engine switches back to Flashing mode.

Flashing



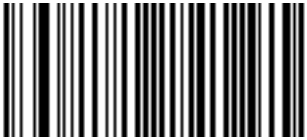
Flashing mode activates the lighting and decoding function (no need to activate the trigger line). After a period of inactivity equal to the time specified by the trigger timeout, the scanner starts flashing, checking for a barcode to be read. When a barcode is detected, the lighting and decoding automatically turn on and stay on until another period of inactivity (timeout), after which the scanner starts flashing again.

Autostand



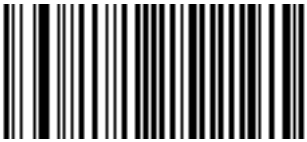
This mode allows you to switch from Flashing trigger mode to Level trigger mode. Autostand begins in Flashing mode: At power-up, the lighting and decoding are on (no need to activate the trigger line) and after a period of inactivity equal to the time specified by the trigger timeout, the scanner starts flashing. To switch to Level trigger mode, activate the trigger line (press the trigger). When in Level trigger mode, after a period of inactivity equal to the time specified by the trigger timeout, the scanner switches back to Flashing mode.

Toggle



This mode allows lighting and decoding toggle when the trigger line is activated. First trigger activation = lighting and decoding on; second trigger activation = lighting and decoding off.

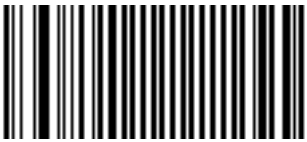
Presentation



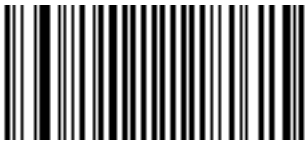
This mode activates the lighting and decoding function. After a period of inactivity equal to the time specified by the trigger timeout, the lighting turns off or is dimmed. When a new barcode is presented, the lighting and decoding restart and stay on until another period inactivity.

4.2 TIME OUT

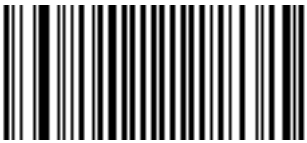
<2 sec>



4 sec



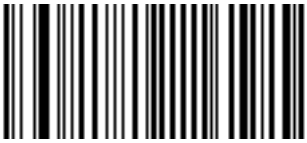
6 sec



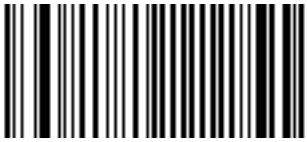
4.3 GOOD READ MODE

When active, the scan engine stops the reading session after a successful decoding. ***NOTE:*** This parameter is *not* used with Continuous and Continuous + Flashing modes.

<Active>



Not Active

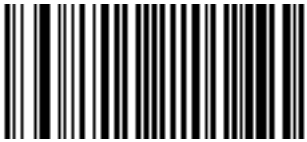


4.4 BUZZER BEEP TONE

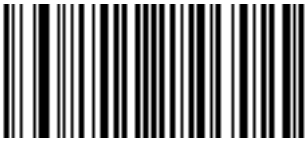
4.4.1 BEEP TONE SETUP

<High>

Medium



Low

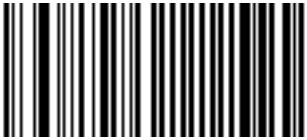


4.4.2 GOOD READ BEEPS

<One Beep>

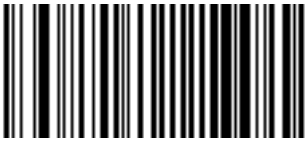
Two Beeps

None



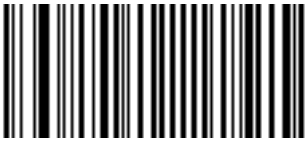
4.4.3 BEEP DURATION

60 msec

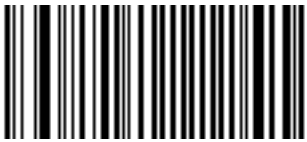


<80 msec>

200 msec



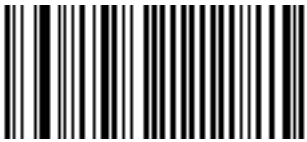
Off



4.4.4 TIMING

<During Transmission>

Before Transmission

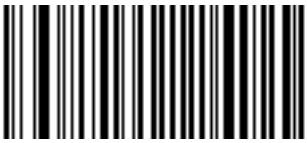


After Transmission

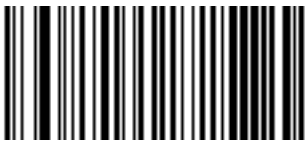
4.5 GOOD READ DURATION

4.5.1 GOOD READ LED DURATION

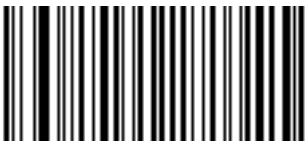
<80 msec>



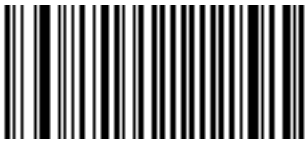
0.5 sec



1 sec



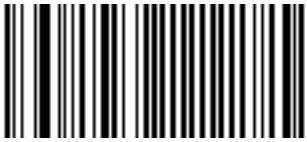
Off



4.5.2 ERROR BEEP

<On>

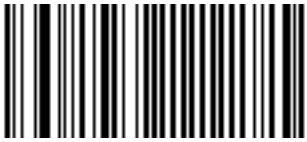
Off



4.5.3 SETUP BEEP

<On>

Off

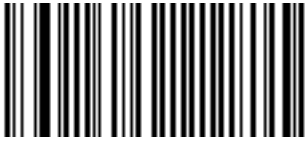


4.6 BAD READ MESSAGE SETTINGS

<Default = "NOREAD">

Active

<Not Active>



5 IMAGER SETTINGS

5.1 IMAGER MODE

The best reading performance of the scanner depends on the environment, the application of the scanner and the type of barcodes.

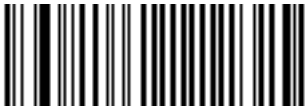
- Linear mode is for decoding 1D barcodes.
- Area mode is for decoding 1D and 2D barcodes.

Area mode allows you to set the position of the scanner in any direction — regardless of the orientation of the barcode — and perform a good read on 1D and 2D barcodes.

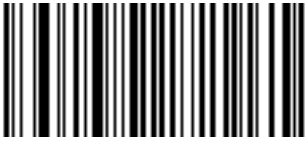
Linear mode allows you to increase your decoding speed while scanning 1D barcodes; however, you need to position the beam across all bars in the 1D barcode.

<Area Imager>

Linear Imager



1D & 2D Codes, Bright Environment



1D & 2D Codes with Reflective Surface

5.2 FIRMWARE VERSION

This displays the firmware version of the scanner.

Firmware Version

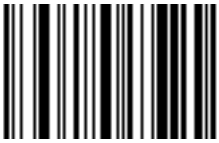
6 PROGRAMMING CODES

6.1 FACTORY DEFAULT

The default RS232 settings are 57600 Baud, 8 Data Bits and No Parity. Factory default settings are indicated in bold inside brackets: **<Example>**

6.1.1 SETTING SCANNER PARAMETERS TO FACTORY DEFAULTS

Set Factory Default



This resets all configuration parameters to their original factory default settings. After this reset, you need to select all required parameters that meet the application requirements.

6.2 RS232 PARAMETERS

6.2.1 BAUD RATE

75

150

300

600

1200

2400

4800

9600

19200

38400

<57600>

115200

128000

230400

256000

460800

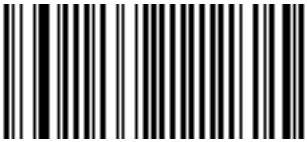
6.2.2 DATA BITS

Data Bits 7

<Data Bits 8>

6.2.3 STOP BITS

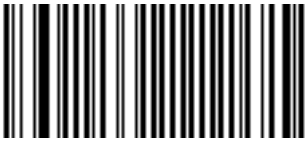
<Stop Bits 1>



Stop Bits 2

6.2.4 PARITY

<None>

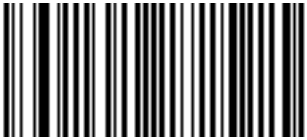


Even

Odd

6.2.5 HARDWARE/SOFTWARE PROTOCOLS TIMEOUT

Compose (ms): 500



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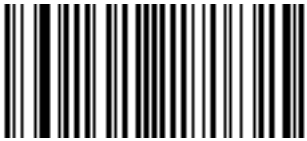
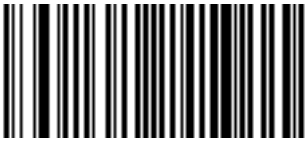
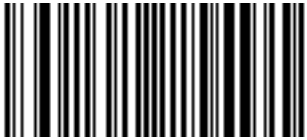


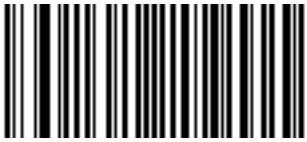
Compose (ms): 1500



Compose (ms): 2000

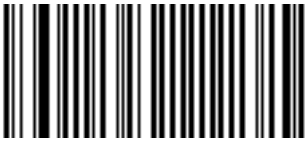


Compose (ms): 2550



6.2.6 RS232 PARAMETERS — ENQ

<Not Active>



Active

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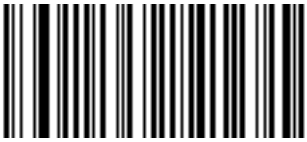
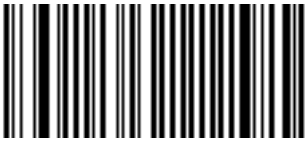


6.2.7 RS232 PARAMETERS — ACK

<Not Active>



Active

<Default: 06H>

6.2.8 RS232 PARAMETERS — NAK

<Not Active>

Active

<Default: 15H>

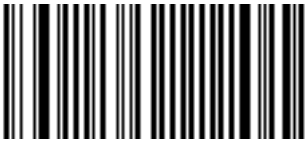
6.2.9 SOFTWARE PROTOCOL — XON/XOFF

Active

<Not Active>

6.2.10 HARDWARE PROTOCOL — RTS/CTS

<Not Active>

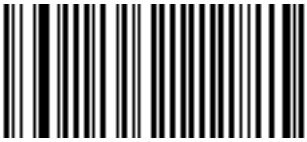


Active, RTS idle after each character

Active, RTS idle after whole message

6.2.11 RS232 PARAMETERS — LRS (LONGITUDINAL REDUNDANCY CHECK)

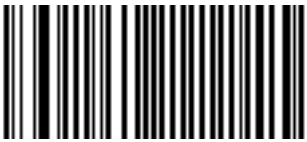
<Not Active>



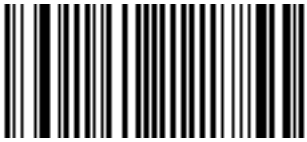
Active

6.2.12 RS232 PARAMETERS — INTERCHARACTER DELAY

<None>

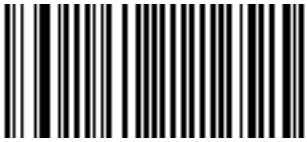


10 ms

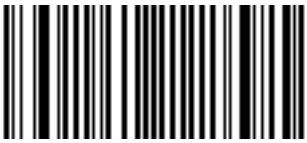


20 ms

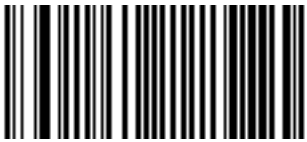
30 ms



40 ms

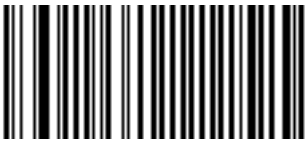


50 ms

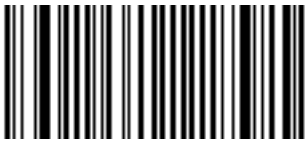


6.2.13 RS232 PARAMETERS — INTERMESSAGE DELAY

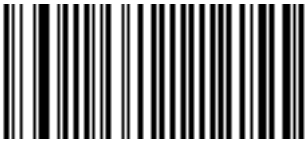
<None>



10 ms

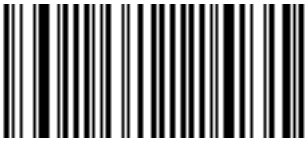


30 ms

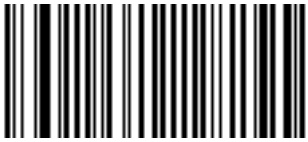


50 ms

80 ms



100 ms



6.3 USB PARAMETER

USB Mode

NOTE: The Set Factory Default setting (Section 6.1.1) would return to the original default setting instead of the customized setting. That is, if you are using the USB interface, your device will lose USB interface settings when the Set Factory Default code is entered. You would then need to re-scan the USB Mode barcode.

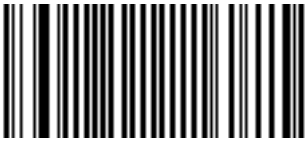
6.4 DECODING SELECTION

6.4.1 SYMBOLOGIES SELECTION

Australian Post ON

<Australian Post OFF>

AZTEC ON



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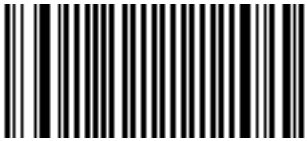

BPO ON

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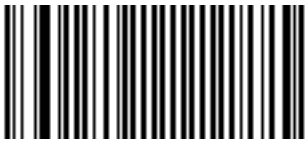
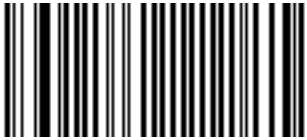
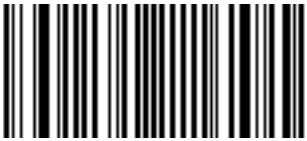


Canada Post ON

<Canada Post OFF>



CODABAR ON



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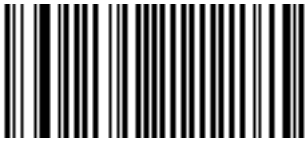
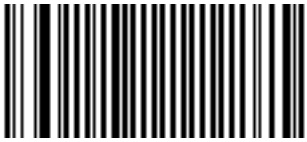
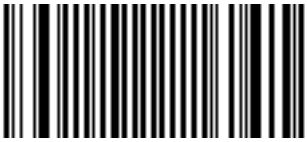


Codablock A ON

<Codablock A OFF>



Codablock F ON



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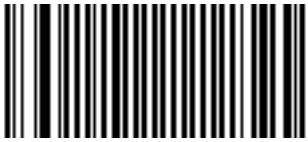

CODE 11 ON

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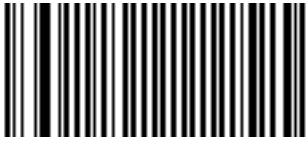

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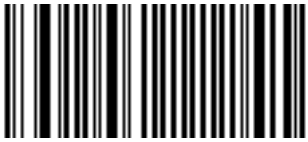
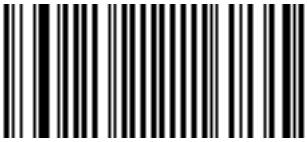
CODE 39 OFF



CODE 93 ON



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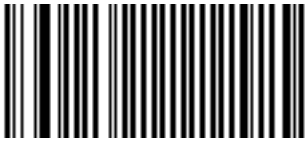

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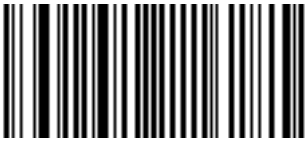
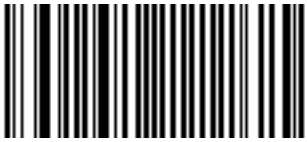


CODE 128 OFF



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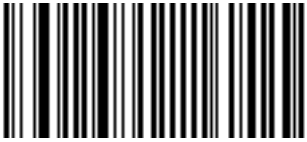
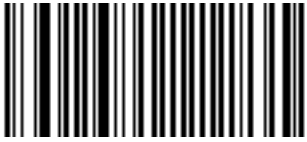
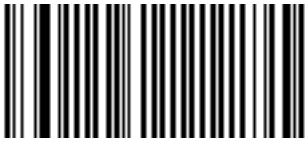


GS1-128 OFF



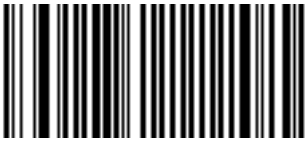
<DATAMATRIX ON>

DATAMATRIX OFF



Dutch Post ON

<Dutch Post OFF>



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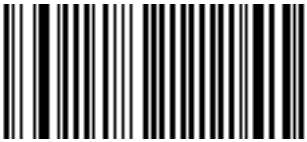
EAN-8 OFF



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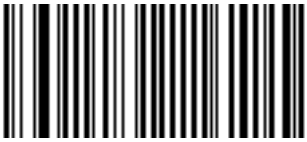

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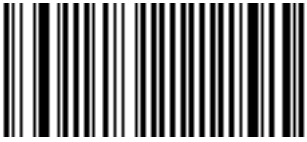

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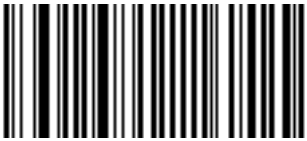

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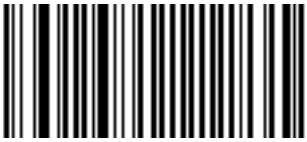
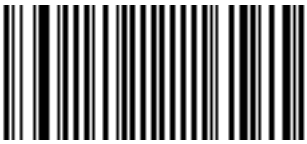


GS1 CC-A/B ON



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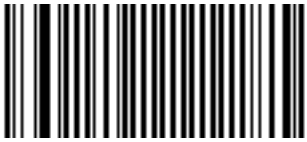
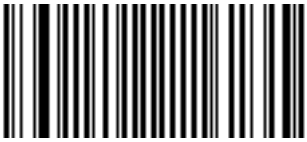


GS1 CC-C ON



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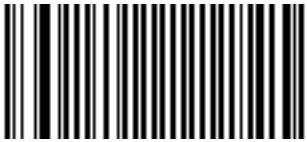
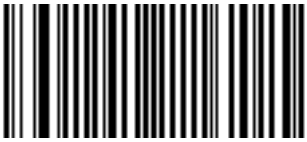


GS1 DataBar-Omni ON



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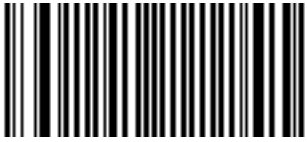
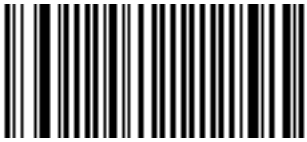
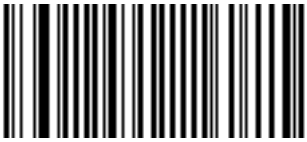


GS1 DataBar Limited ON

<GS1 DataBar Limited OFF>



GS1 DataBar Expanded ON



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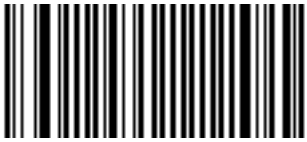

Infomail ON

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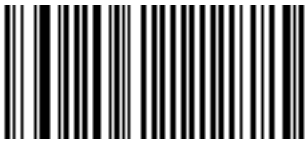
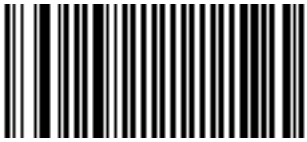
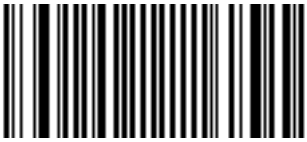


Interleaved 2 of 5 ON

<Interleaved 2 of 5 OFF>



Japan Post ON



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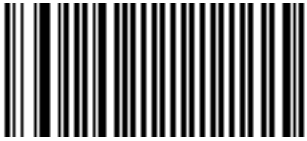
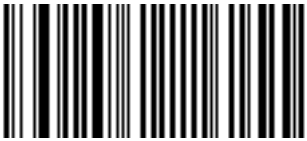


Matrix 2 of 5 ON



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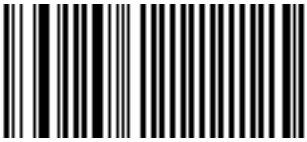
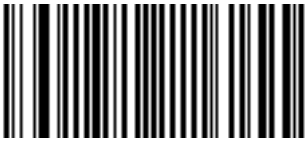


MaxiCode ON



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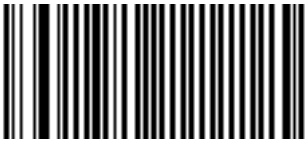
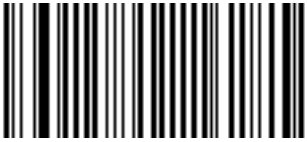


MicroPDF417 ON



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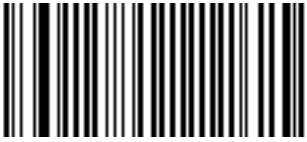
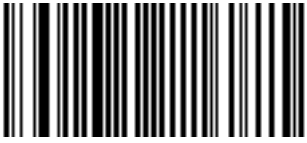


MSI ON



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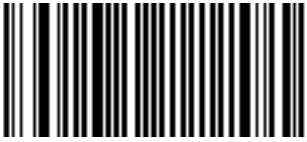

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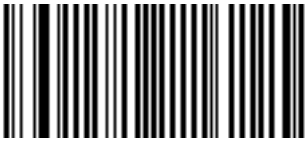
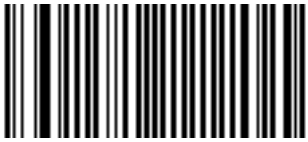
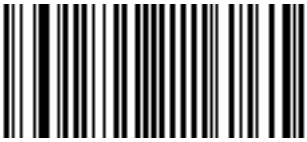


PDF417 OFF



Planet ON



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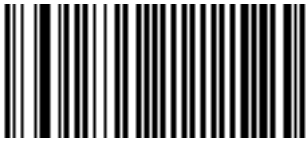
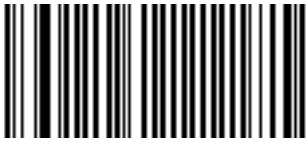


PLESSEY ON

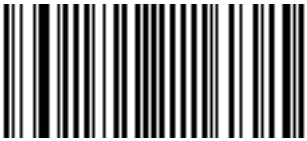
<PLESSEY OFF>

Postnet ON

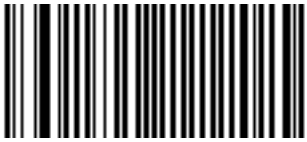
<Postnet OFF>



QR Code ON

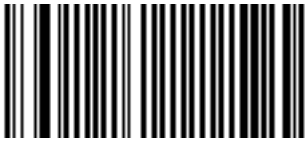


<QR Code OFF>

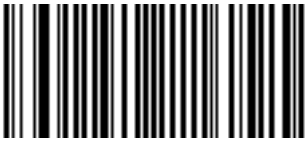


Standard 2 of 5 ON

<Standard 2 of 5 OFF>



Sweden Post ON



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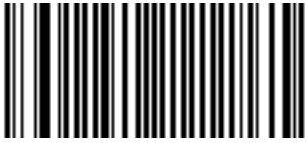
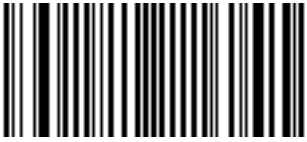
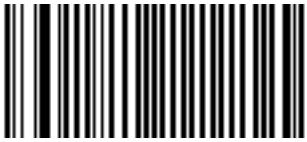


Telepen ON



<Telepen OFF>

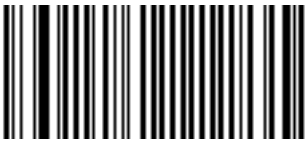


TLC 39 ON

<TLC 39 OFF>

<UPC-A ON>

UPC-A OFF



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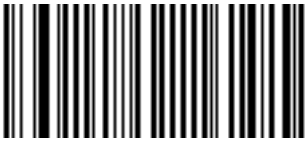
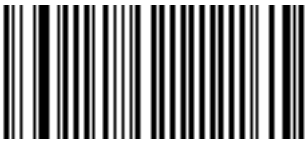


UPC-E OFF



6.4.2 DISABLE ALL SYMBOLOGIES

To disable all the symbologies, scan the code below. Otherwise, you can scan the Off code to disable individual symbologies.

Disable All Symbologies

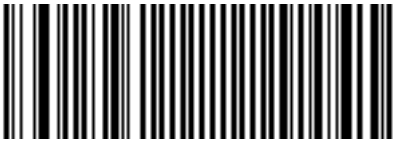
NOTE: Do not reset individual parameter settings for each symbology. When you enable a symbology, you will recover the parameter settings stored in

memory. At any time, you can reset to factory defaults by scanning the Set Factory Default code (see Section 6.1.1).

6.5 AUSTRALIAN POST SETTINGS

6.5.1 SYMBOLOGY IDENTIFIER

<UDSI-Default "P3">



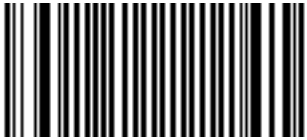
<Code Mark-Default "*">

6.6 AZTEC SETTINGS

6.6.1 STRUCTURE APPEND MODE

Active

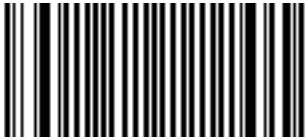
<Not Active>



6.6.2 AZTEC RUNES

Active

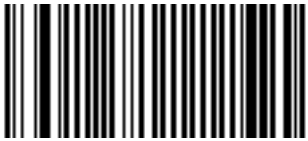
<Not Active>



6.6.3 GS1-128 EMULATION

Active

<Not Active>



6.6.4 SYMBOLOGY IDENTIFIER

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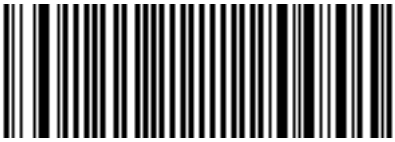
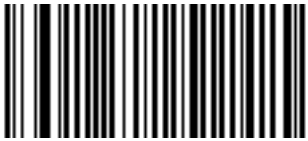


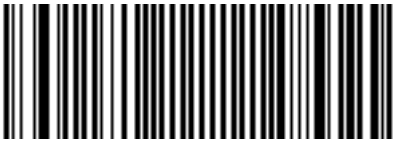
<Code Mark-Default "*">



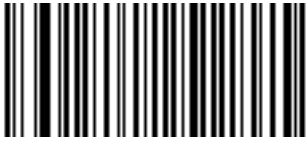
6.7 BPO SETTINGS

6.7.1 SYMBOLOGY IDENTIFIER

<UDSI-Default "P2">



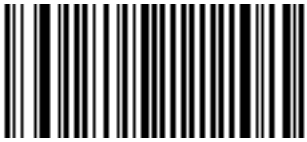
<Code Mark-Default "*">



6.7.2 CHECK DIGIT TRANSMISSION

<Active>

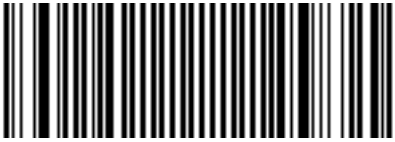
Not Active



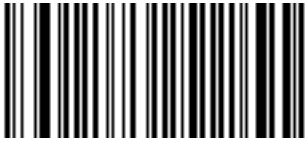
6.8 CANADA POST SETTINGS

6.8.1 SYMBOLOGY IDENTIFIER

<UDSI-Default "P6">



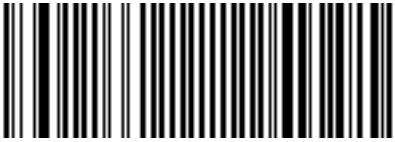
<Code Mark-Default "*">



6.9 CODABAR SETTINGS

6.9.1 SYMBOLOGY IDENTIFIER

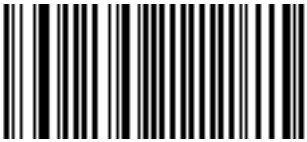
<UDSI-Default "B7">



<Code Mark-Default "D">

6.9.2 START/STOP

<Not Transmitted>



Transmitted-a,b,c,d

Transmitted-A,B,C,D

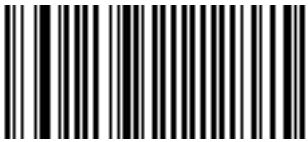
Transmitted-a,b,c,d/t,n,*,e

Transmitted-DC1,DC2,DC3,DC4

6.9.3 CLSI LIBRARY SYSTEM

Active (insert spaces)

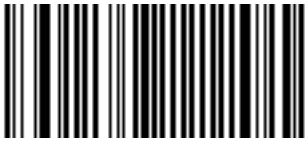
<Not Active>



6.9.4 CHECK DIGIT VERIFICATION

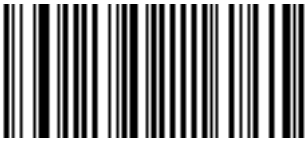
Used

<Not Used>



6.9.5 CHECK DIGIT TRANSMISSION

Transmitted



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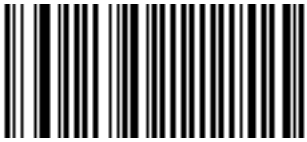

6.9.6 CONCATENATION

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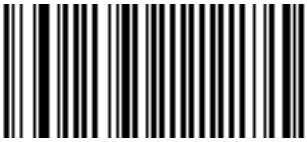
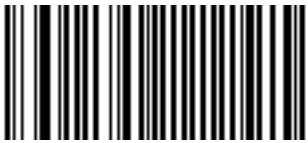


Transmit All Codes (Single, Concatenated)

Transmit Concatenated Codes Only

<No Start/Stop Restrictions>



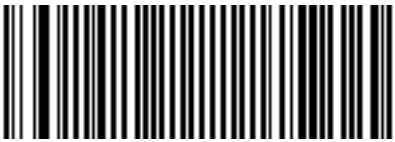
Stop 1 = Start 2

ABC (American Blood Commission)

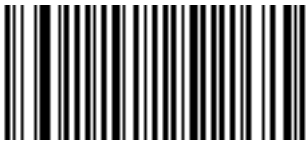
6.10 CODABLOCK SETTINGS

6.10.1 SYMBOLOGY IDENTIFIER

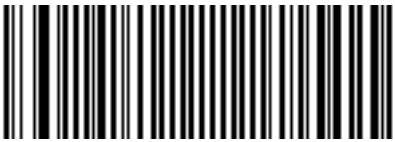
<Codablock A UDSI-Default "K0">



<Codablock A Code Mark-Default "*">



<Codablock F UDSI-Default "K1">



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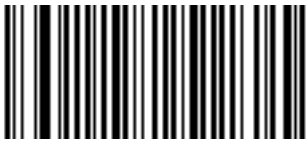
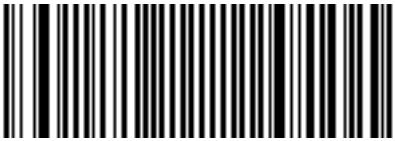


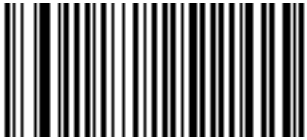
6.11 CODE 11 SETTINGS

6.11.1 SYMBOLOGY IDENTIFIER

<UDSI-Default "C1">



<Code Mark-Default "*">



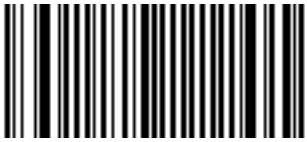
6.11.2 CHECK DIGITS

<1 Digit>

2 Digits

<Checked and Transmitted>

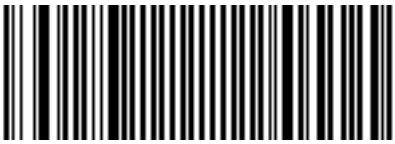
Checked but not Transmitted



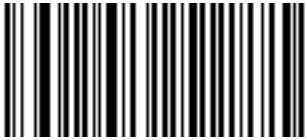
6.12 CODE 39 SETTINGS

6.12.1 SYMBOLOGY IDENTIFIER

<UDSI-Default "B1">

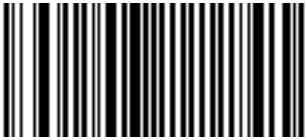


<Code Mark-Default "*">

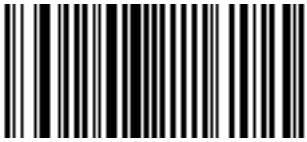


6.12.2 FORMAT

<Standard 43 Characters>

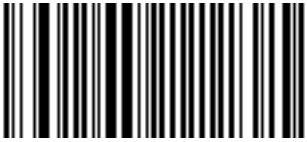


Full ASCII (Extended)

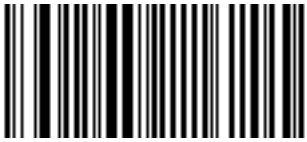


6.12.3 START/STOP

<Not Transmitted>

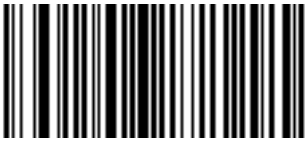


Transmitted

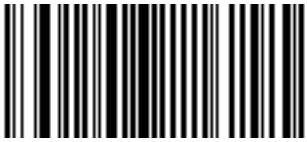


6.12.4 ACCEPTED CHARACTERS

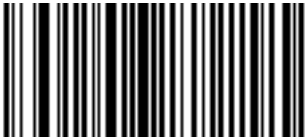
<* Only (Standard Code 39)>



$ Only (Trioptic Code 39)

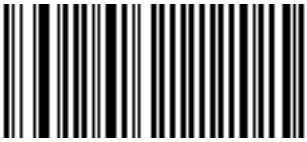


$ and * (Standard & Trioptic Code 39)

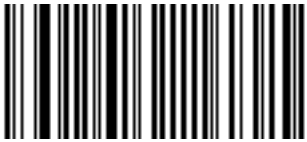


6.12.5 CHECK DIGIT VERIFICATION

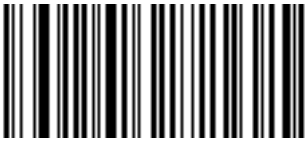
<Not Used>



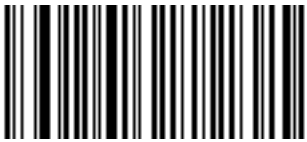
Modulo 43



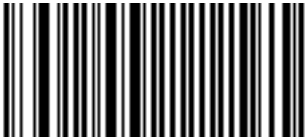
French CIP



Italian CPI



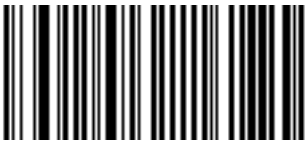
<Check Digit Not Transmitted>



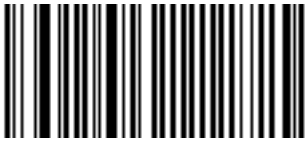
Check Digit Transmitted

6.12.6 READING RANGE

<Extended>

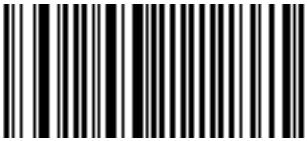


Normal



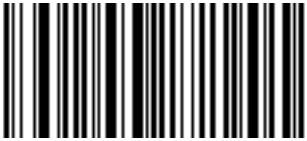
6.12.7 READING TOLERANCE

<High >



Medium

Low



6.13 CODE 93 / CODE 93i SETTINGS

6.13.1 SYMBOLOGY IDENTIFIER

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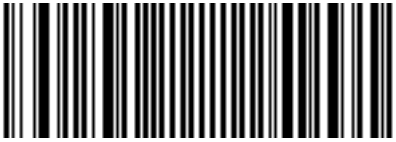
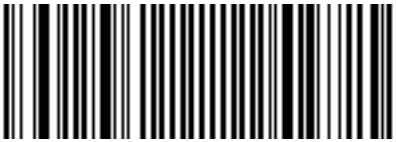


<Code Mark-Default "D">

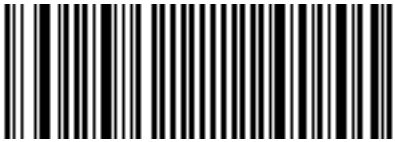
6.14 CODE 128 / GS1-128 SETTINGS

6.14.1 SYMBOLOGY IDENTIFIER

<UDSI-Code 128-Default "B3">



<UDSI-GS1-128-Default "C9">



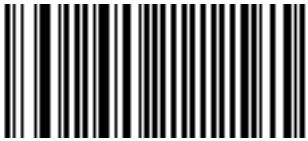
<Code Mark-Code 128-Default "D">

<Code Mark-GS1-128-Default "D">

6.14.2 GS1-128 IDENTIFIER

<Include]C1 Identifier>

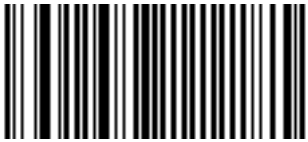
Remove]C1 Identifier



6.14.3 CIP 128 FRENCH PHARMACEUTICAL CODES

Active

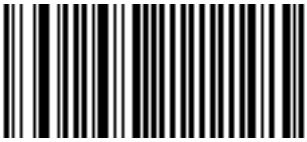
<Not Active>



<FNC1 Separator Character (GS1-128 norms)-<GS>(1Dh)>

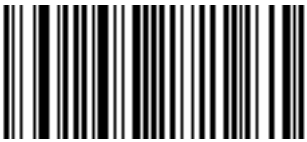
6.14.4 READING TOLERANCE

<High>



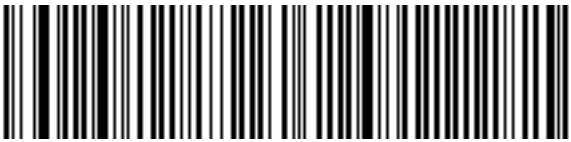
Medium

Low

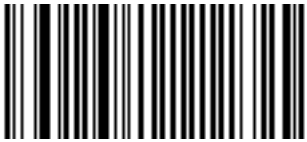


6.14.5 ISBT 128

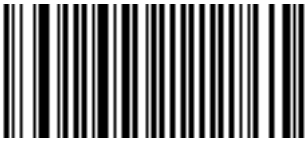
Active



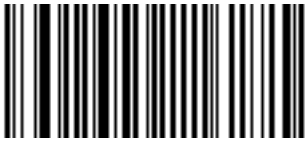
<Not Active>



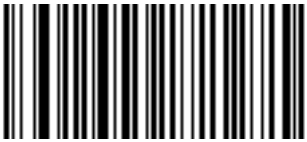
<Transmit Single Codes Only>



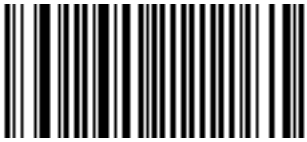
Transmit Concatenated Codes Only



Transmit Single Codes/Concatenated Codes



<Concatenate Authorized ISBT 128 Code Pairs Only>

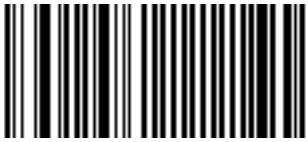


Concatenate All ISBT 128 Code Pairs

6.14.6 GTIN PROCESSING FOR GS1-128

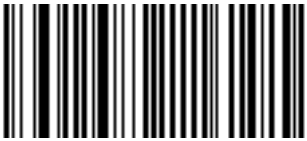
Active

<Not Active>

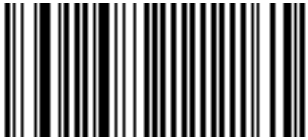


6.14.7 UNCONVENTIONAL GS1-128

<Active>



Not Active



6.15 DATAMATRIX SETTINGS

6.15.1 SYMBOLOGY IDENTIFIER

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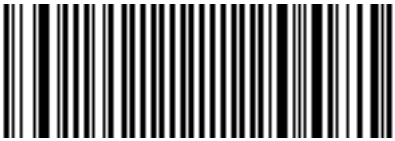
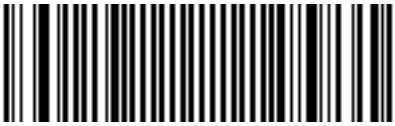


<Code Mark-Default "*">

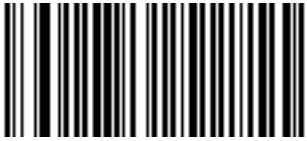
6.16 DUTCH POST SETTINGS

6.16.1 SYMBOLOGY IDENTIFIER

<UDSI-Default "P4">



<Code Mark-Default "*">



6.17 EAN / UPC PARAMETERS SETTINGS

6.17.1 READING TYPE

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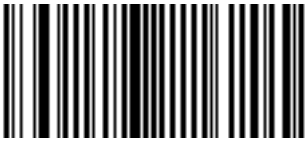
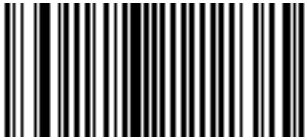
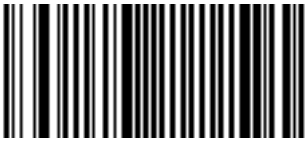


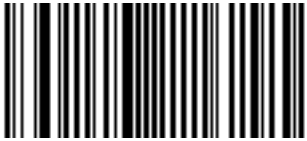
UPC-A Transmitted As UPC-A



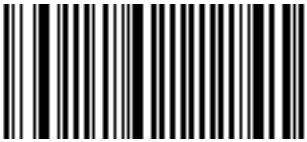
<UPC-E Transmitted As UPC-E>



UPC-E Transmitted As UPC-A

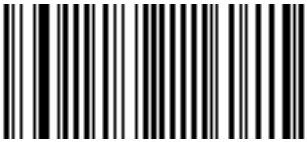


<EAN-8 Transmitted As EAN 8>

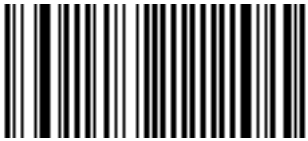


EAN-8 Transmitted As EAN-13

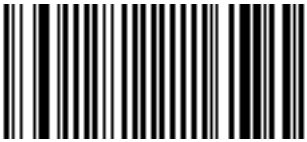
ISBN – Active



<ISBN - Not Active>



ISMN – Active



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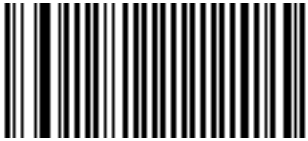

ISSN – Active

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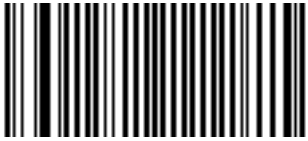
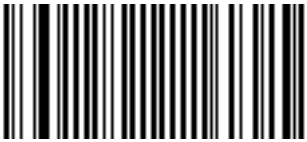


GTIN Processing – Active



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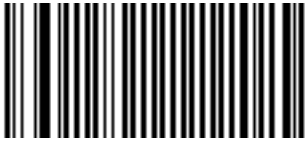
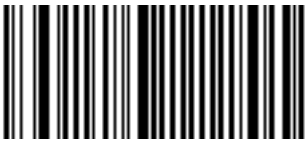
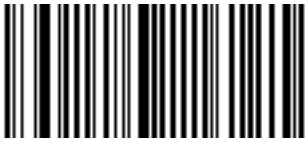


6.17.2 SUPPLEMENTAL SETUP

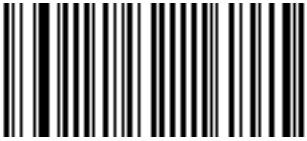
<ADD-ON Digits Not Required but Transmitted If Read>



ADD-ON Digits Required and Transmitted



ADD-ON 2 ON



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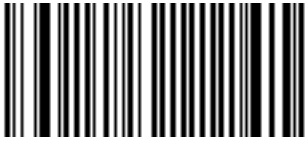
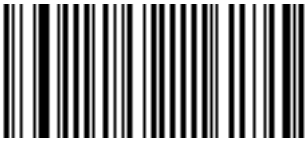


ADD-ON 5 ON



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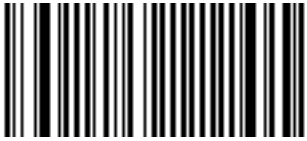

6.17.3 CHECK DIGIT TRANSMISSION

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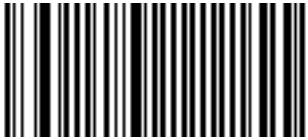
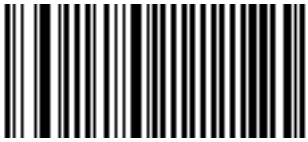
UPC-A Check Digit Transmission OFF



<UPC-E Check Digit Transmission ON>

UPC-E Check Digit Transmission OFF



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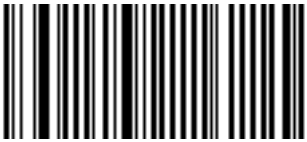
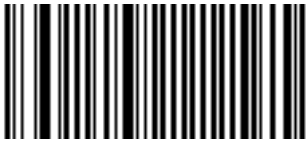
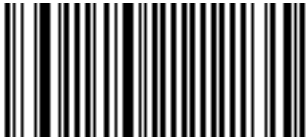


EAN-8 Check Digit Transmission OFF



<EAN-13 Check Digit Transmitted ON>

EAN-13 Check Digit Transmission OFF



6.17.4 SYMBOLOGY IDENTIFIER

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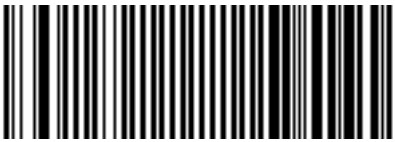
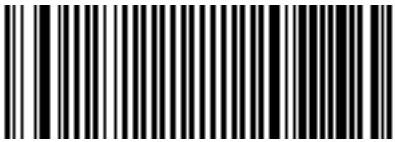
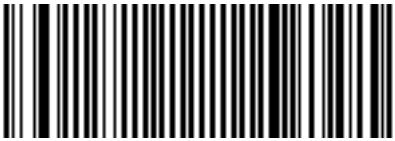


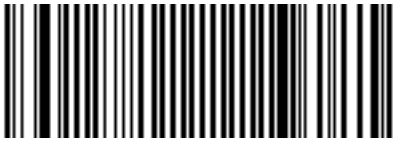
<UDSI–UPC-E-Default "E0">



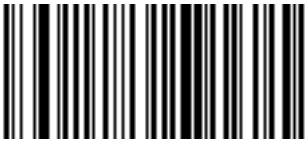
<UDSI–EAN-8-Default "FF">



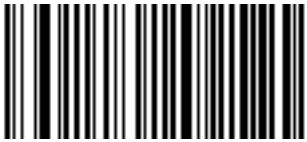
<UDSI–EAN-13-Default "F">



<Code Mark–UPC-A-Default "A">



<Code Mark–UPC-E-Default "E">



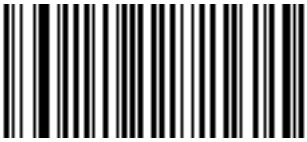
<Code Mark–EAN-8-Default "FF">

<Code Mark–EAN-13-Default "F">

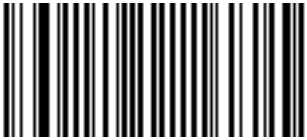
6.18 GS1 COMPOSITE SETTINGS

6.18.1 EAN/UPC COMPOSITE MESSAGE DECODING

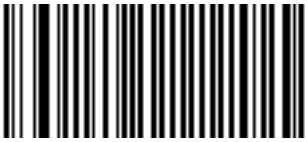
<Auto-Discriminate>



Always Linked

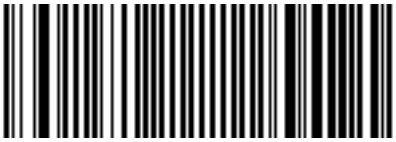


Never Linked

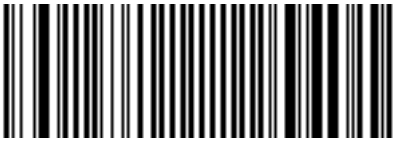


6.18.2 SYMBOLOGY IDENTIFIER

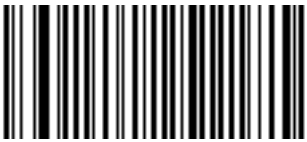
<UDSI–CC-A/B-Default "G0">



<UDSI–CC-C-Default "G1">



<Code Mark–CC-A/B-Default "*">



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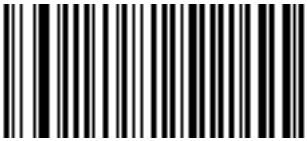

6.18.3 LINEAR TRANSMISSION ONLY

Active

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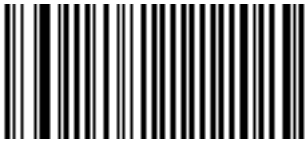
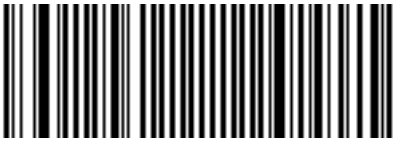


6.19 GS1 DATABAR SETTINGS

6.19.1 SYMBOLOGY IDENTIFIER

<Omni-UDSI-Default "C3">



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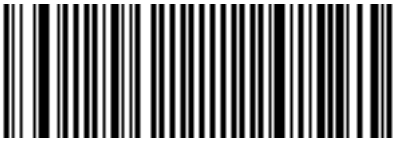
<Limited-UDSI-Default "C4">



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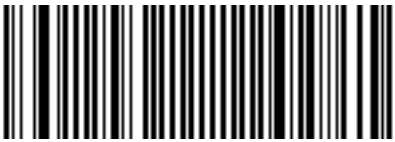

<Expanded-Code Mark-Default "*">

6.20 INFOMAIL SETTINGS

6.20.1 SYMBOLOGY IDENTIFIER

<UDSI-Default "P8">

<Code Mark-Default "*">

6.21 INTERLEAVED 2 OF 5 PARAMETERS

6.21.1 CHECK DIGIT VERIFICATION

<Not Used>

Modulo 10

French CIP

<Not Transmitted>

Transmitted

6.21.2 SYMBOLOGY IDENTIFIER

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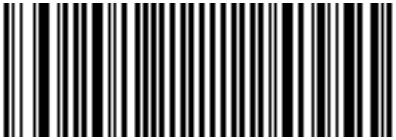
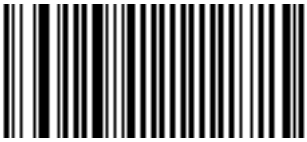


<Code Mark-Default "I">

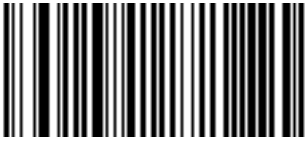
6.21.3 READING TOLERANCE

<High>



Medium

Low



6.22 JAPAN POST SETTINGS

6.22.1 SYMBOLOGY IDENTIFIER

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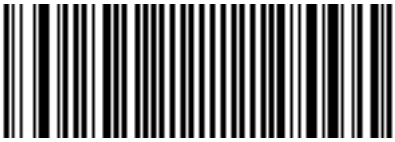
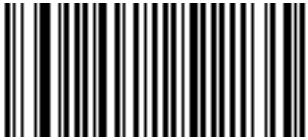


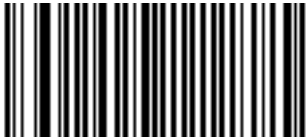
<Code Mark-Default "*">



6.22.2 CHECK DIGIT TRANSMISSION

<Active>

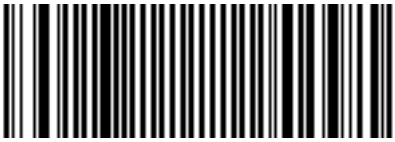
Not Active



6.23 MATRIX 2 OF 5 SETTINGS

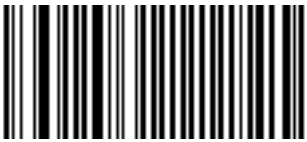
6.23.1 SYMBOLOGY IDENTIFIER

<UDSI-Default "B4">



<Code Mark-Default "D">

<Code Mark-Regular>



Code Mark-China Post

6.24 MAXICODE SETTINGS

6.24.1 SYMBOLOGY IDENTIFIER

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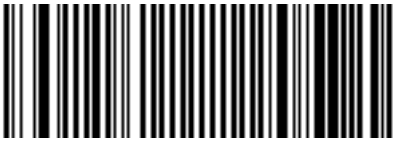

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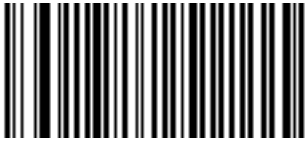
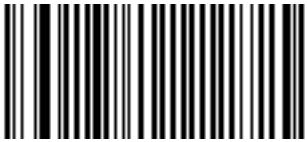


6.24.2 MODE 0

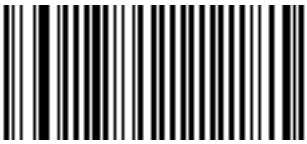
Active

<Not Active>

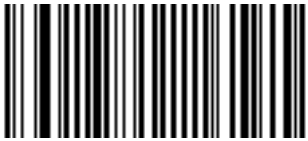


6.24.3 HEADER

<Regular(AIM)>



Extended



6.25 MICROPDF417 SETTINGS

6.25.1 SYMBOLOGY IDENTIFIER

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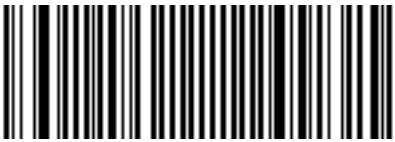
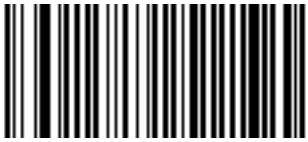
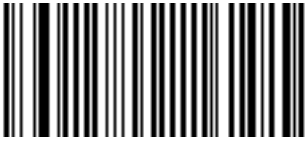


<Code Mark-Default "*">



6.25.2 CODE 128 EMULATION

Active



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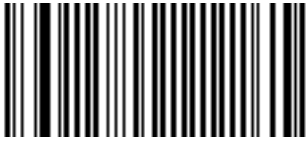

6.26 MSI CODE PARAMETERS SETTINGS

6.26.1 SYMBOLOGY IDENTIFIER

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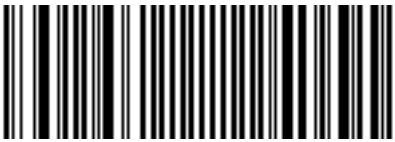


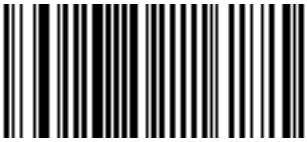
<Code Mark-Default "D">

6.26.2 CHECK DIGIT VERIFICATION

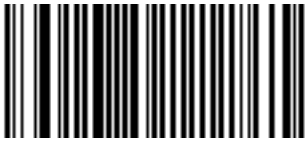
<Modulo 10>

Double Modulo 10

<Check Digit Transmitted>



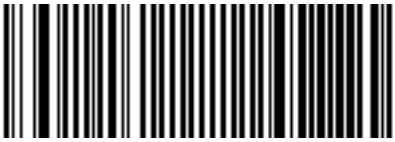
Check Digit Not Transmitted



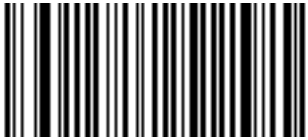
6.27 PDF417 SETTINGS

6.27.1 SYMBOLOGY IDENTIFIER

<UDSI-Default "C7">

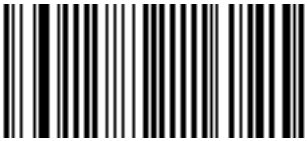


<Code Mark-Default "*">

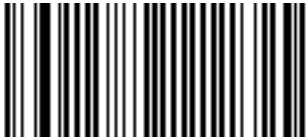


6.27.2 IRREGULAR PDF

Active



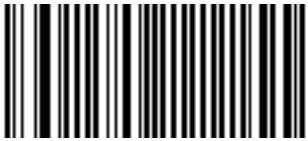
<Not Active>



6.27.3 CONTROL HEADER

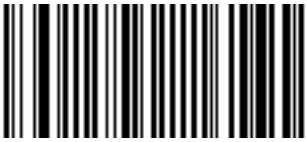
Transmitted

<Not Transmitted>

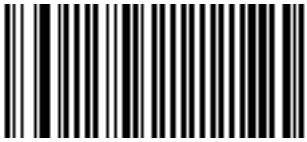


6.27.4 OPTIONAL FIELDS

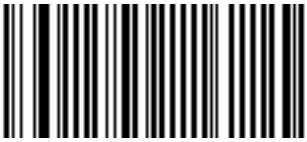
File Name Transmitted



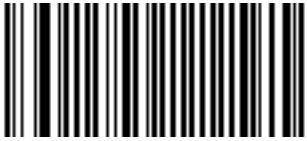
<File Name Not Transmitted>



Segment Count Transmitted

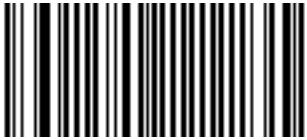


<Segment Count Not Transmitted>



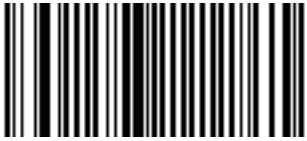
Time Stamp Transmitted

<Time Stamp Not Transmitted>

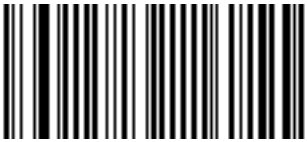


Sender Transmitted

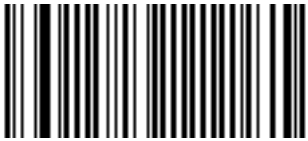
<Sender Not Transmitted>



Addressee Transmitted

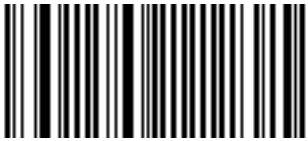


<Addressee Not Transmitted>

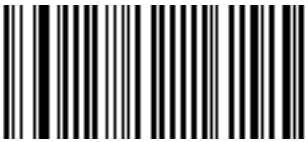


File Size Transmitted

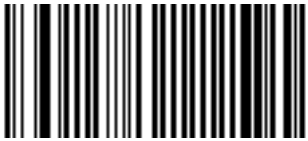
<File Size Not Transmitted>



Checksum Transmitted



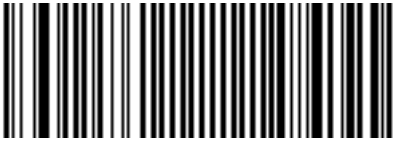
<Checksum Not Transmitted>



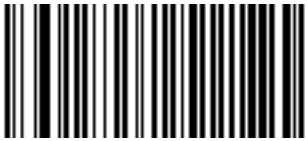
6.28 PLANET SETTINGS

6.28.1 SYMBOLOGY IDENTIFIER

<UDSI-Default "P1">

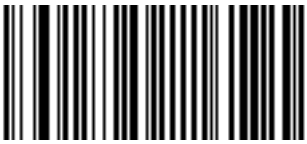


<Code Mark-Default "*">

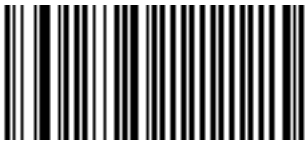


6.28.2 CHECK DIGIT TRANSMISSION

<Active>



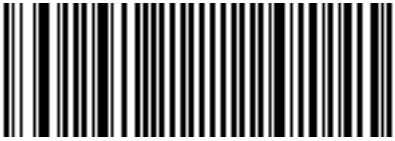
Not Active



6.29 PLESSEY CODE SETTINGS

6.29.1 SYMBOLOGY IDENTIFIER

<UDSI-Default "C2">



<Code Mark-Default "D">

6.29.2 CHECK DIGIT TRANSMISSION

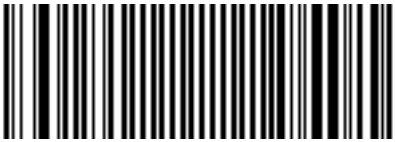
Check Digit Transmitted

<Check Digit Not Transmitted>

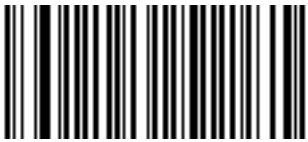
6.30 POSTNET SETTINGS

6.30.1 SYMBOLOGY IDENTIFIER

<UDSI-Default "P0">



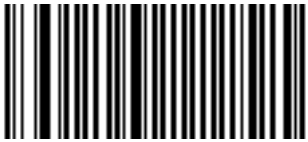
<Code Mark-Default "*">



6.30.2 CHECK DIGIT TRANSMISSION

<Active>

Not Active

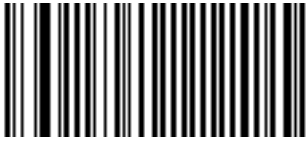


6.31 QR CODE SETTINGS

6.31.1 MODEL 1 CONTROL

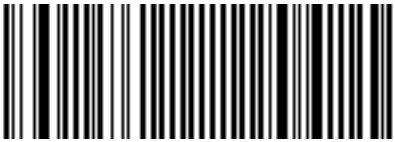
Active

<Not Active>

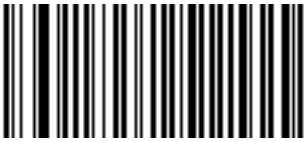


6.31.1 SYMBOLOGY IDENTIFIER

<UDSI-Default "D1">



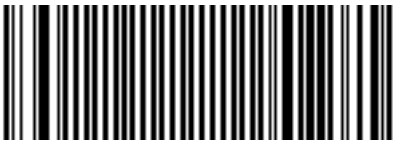
<Code Mark-Default "*">



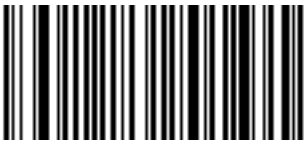
6.32 STANDARD 2 OF 5 SETTINGS

6.32.1 SYMBOLOGY IDENTIFIER

<UDSI-Default "B5">

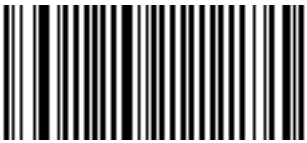


<Code Mark-Default "D">

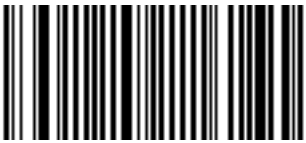


6.32.2 FORMAT

<Identicon (6 start/stop bars)>

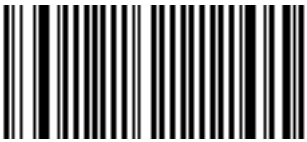


Computer Identics (4 start/stop bars)

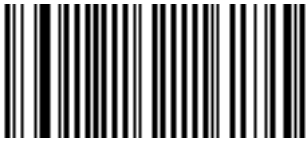


6.32.3 CHECK DIGIT VERIFICATION

<Not Used>

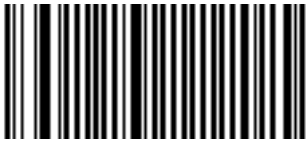


Modulo 10



Transmitted

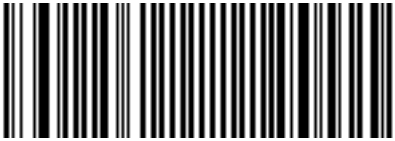
<Not Transmitted>



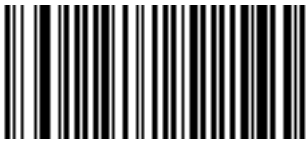
6.33 SWEDEN POST SETTINGS

6.33.1 SYMBOLOGY IDENTIFIER

<UDSI-Default "P7">



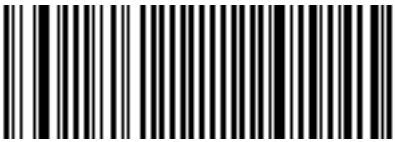
<Code Mark-Default "*">



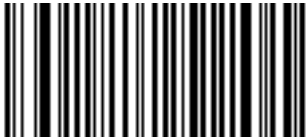
6.34 TELEPEN SETTINGS

6.34.1 SYMBOLOGY IDENTIFIER

<UDSI-Default "C6">

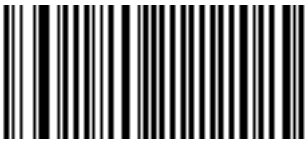


<Code Mark-Default "*">



6.34.2 FORMAT

<ASCII>

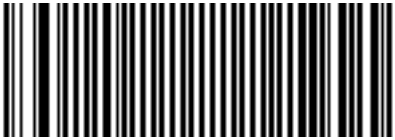


Numeric

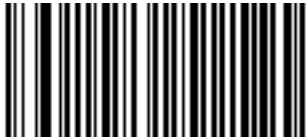
6.35 TLC 39 SETTINGS

6.35.1 SYMBOLOGY IDENTIFIER

<UDSI-Default "H0">



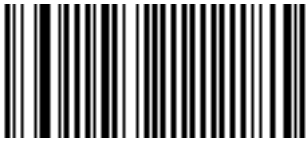
<Code Mark-Default "*">



6.35.2 LINEAR TRANSMISSION ONLY

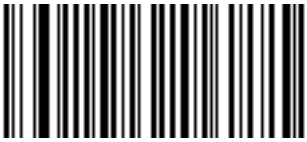
Active

<Not Active>



6.35.3 ECI SECURITY

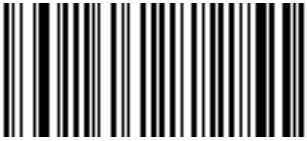
<10>



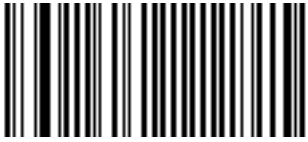
6.36 MISCELLANEOUS PARAMETERS

6.36.1 SYMBOLOGY IDENTIFIER

Symbology Identifier Transmitted



<Symbology Identifier Not Transmitted>



With the Miscellaneous Parameters function on, a leading character will be added to the output string while scanning codes, as shown in the table below.

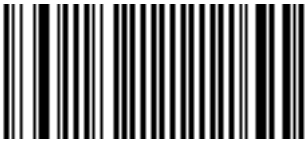
CODE TYPE	ID	CODE TYPE	ID	CODE TYPE	ID	CODE TYPE	ID
Aztec	*	Code 128	D	Interleaved 2 of 5	I	Plessey Code	D
Codabar	D	DataMatrix	*	GS1 DataBar Omni	*	PDF417	*
Code 11	*	EAN-8	FF	GS1 DataBar Exp.	*	MicroPDF417	*
Code 39	*	EAN-13	F	GS1 DataBar Ltd.	*	UPC-A	A
Code 93	D	EAN-128	D	MSI code	*	UPC-E	E

6.37 PREAMBLES AND POSTAMBLES

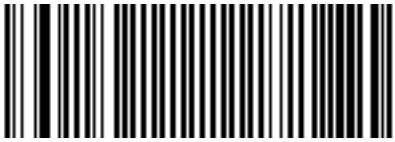
6.37.1 PREAMBLE

The scanner can be programmed to output barcode data based on the format [PREAMBLE STRING] [BAR CODE DATA]. To send <STX> in front of the barcode, for example, scan only programming code <STX> and the resulting barcode output will be [<STX>] [BAR CODE DATA].

<Preamble None>



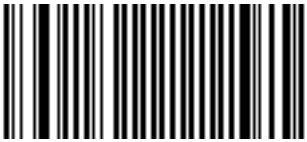
<STX>



6.37.2 POSTAMBLE

The scanner can be programmed to output barcode data based on the format [BAR CODE DATA] [POSTAMBLE STRING]. To send <ETX> after the barcode, for example, scan only programming code <ETX> and the resulting barcode output will be [BAR CODE DATA] [<ETX>].

Postamble None



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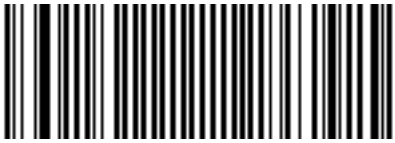

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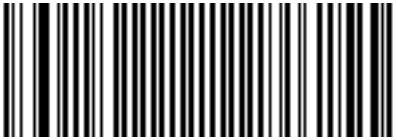

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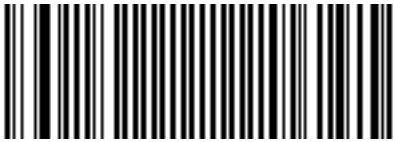

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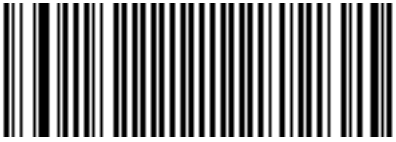

7 APPENDICES

7.1 DECIMAL VALUES

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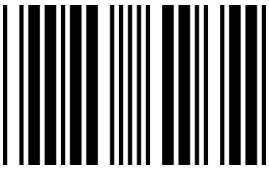

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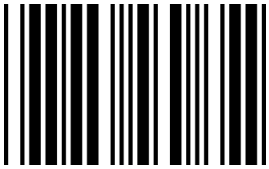

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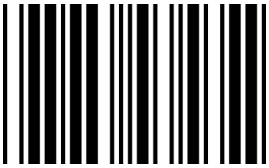

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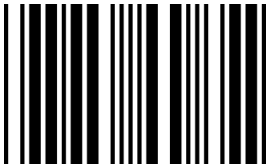

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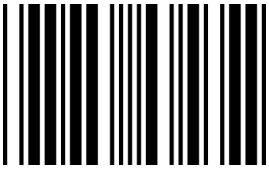

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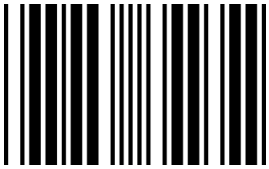

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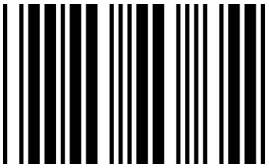

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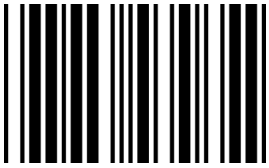

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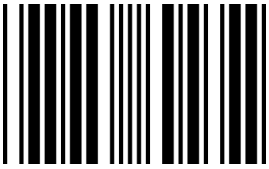

9

7.2 ASCII

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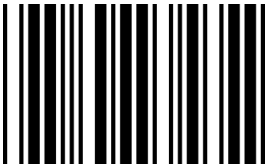

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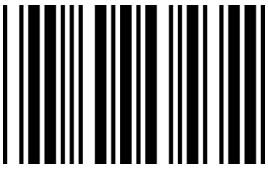

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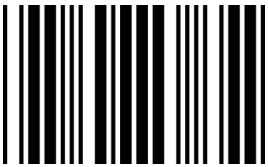

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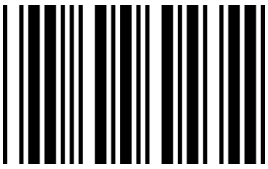

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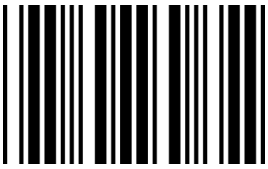

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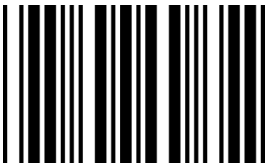

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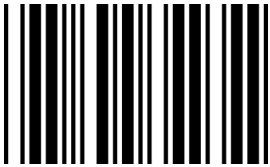

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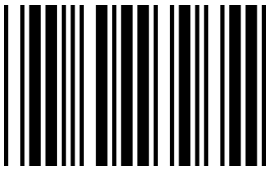

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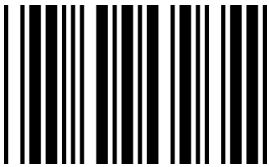

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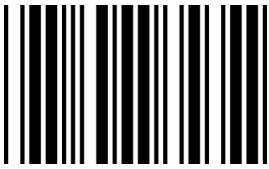

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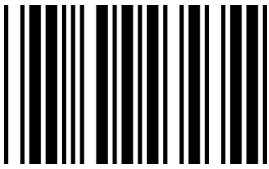

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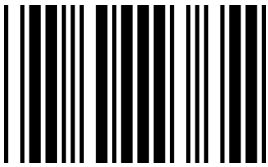

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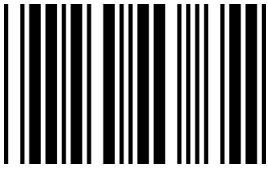

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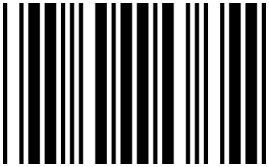

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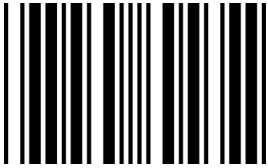

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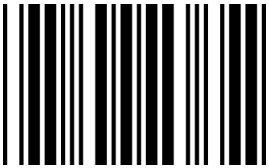

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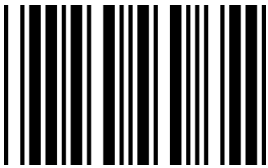

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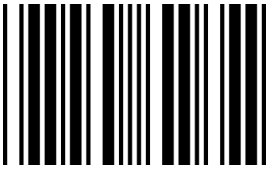

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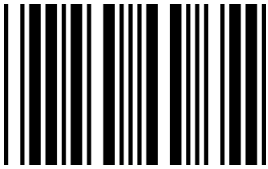

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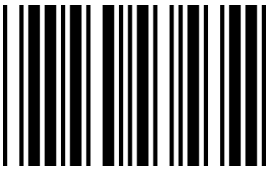

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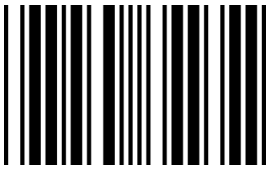

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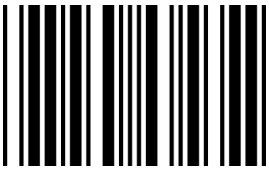

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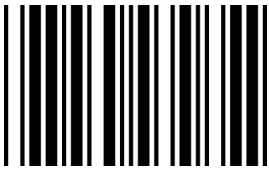

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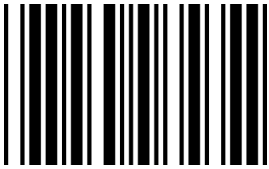

7.3 READABLE SYMBOLOGIES

7.3.1 1D SYMBOLOGIES

SYMBOLOGY	READABLE	DEFAULT ENABLE	SYMBOLOGY	READABLE	DEFAULT ENABLE
EAN/UPC	●	●	Plessey	●	
UCC/EAN128	●	●	Telepen	●	
ISBN	●		BPO	●	
ISBT	●		Codablock	●	
Code 11	●		Infomail	●	
Code 39	●	●	Planet	●	
Code 93/93i	●		TLC 39	●	
Code 128	●	●	Postnet	●	
Interleaved 2 of 5	●		Postal codes	●	
Matrix 2 of 5	●		GS1-128		●
Industrial 2 of 5	●		GS1 CC-A/B/C	●	
Standard 2 of 5	●		GS1 DataBar Omni	●	
Codabard	●		GS1 DataBar Limited	●	
MSI	●		GS1 DataBar Expanded	●	

7.3.2 2D SYMBOLOGIES

SYMBOLOGY	READABLE	DEFAULT ENABLE	SYMBOLOGY	READABLE	DEFAULT ENABLE
DataMatrix	●		QR codex	●	
PDF417	●	●	Aztec	●	
MicroPDF417	●		EAN.UCC composite	●	
MaxiCode	●				

7.4 SPECIFICATIONS

Standards and Certifications

- FCC
- CE
- UL
- USB

General

- Supports 1D and 2D barcodes
- Light source: red laser 650 nm
- Scanner range: 430 mm
- Resolution: 752 horizontal x 480 vertical pixels, 256 gray levels
- Reading indicator: tone and LED
- Ambient light: 100,000 lux maximum (sunlight)
- Scan rate: 200 scans/second auto-adaptive in linear mode; 56 images/second auto-adaptive in area mode
- Interface: USB
- Switch: trigger

Code Support

- 1D: UPC/EAN, UCC/EAN128, ISBN, ISBT, Code 11, Code 39, Code 93/93i, Code 128, Interleaved, Matrix, Industrial, Standard 2 of 5, Codabar, MSI, Plessey, Telepen, Postal codes, GS1 DataBar
- 2D: Data Matrix, PDF 417, Micro PDF 417, Maxicode, QR code, Aztec, EAN.UCC composite

Physical

- Dimensions: 19.3 x 9 x 7.2 cm (7.5 x 3.5 x 2.8 in.)
- Weight: 135 g (4.76 oz.)
- Cable length: 1.5 m (5 ft.)
- Operating temperature: 0 – 50°C
- Storage temperature: -20 – 70°C
- Relative humidity: 20 – 95% (non-condensing)
- Housing: ABS

Electrical

- Voltage: DC +5 V +/- 5%
- Power consumption: 435 mA (in operation)

REGULATORY STATEMENTS

Federal Communications Commission Class B
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of Federal Communications Commission (FCC) Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from the receiver.
- Consult the dealer or an experienced radio/TV technician for help.

CE / R&TTE

ENGLISH
This device complies with the requirements of the R&TTE Directive 1999/5/EC.

DEUTSCH
Dieses Gerät enspricht der Direktive R&TTE Direktive 1999/5/EC.

ESPAÑOL
Este dispositivo cumple con los requerimientos de la Directiva R&TTE 1999/5/EC.

FRANÇAIS
Cet appareil satisfait aux exigences de la directive R&TTE 1999/5/CE.

POLSKI
Urządzenie spełnia wymagania dyrektywy R&TTE 1999/5/EC.

ITALIANO
Questo dispositivo è conforme alla Direttiva 1999/5/EC R&TTE.

WASTE ELECTRICAL & ELECTRONIC EQUIPMENT

Disposal of Electric and Electronic Equipment

(applicable in the European Union and other European countries with separate collection systems)

ENGLISH

This symbol on the product or its packaging indicates that this product shall not be treated as household waste. Instead, it should be taken to an applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences to the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. If your equipment contains easily removable batteries or accumulators, dispose of these separately according to your local requirements. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, contact your local city office, your household waste disposal service or the shop where you purchased this product. *In countries outside of the EU:* If you wish to discard this product, contact your local authorities and ask for the correct manner of disposal.

DEUTSCH

Dieses auf dem Produkt oder der Verpackung angebrachte Symbol zeigt an, dass dieses Produkt nicht mit dem Hausmüll entsorgt werden darf. In Übereinstimmung mit der Richtlinie 2002/96/EG des Europäischen Parlaments und des Rates über Elektro- und Elektronik-Altgeräte (WEEE) darf dieses Elektrogerät nicht im normalen Hausmüll oder dem Gelben Sack entsorgt werden. Wenn Sie dieses Produkt entsorgen möchten, bringen Sie es bitte zur Verkaufsstelle zurück oder zum Recycling-Sammelpunkt Ihrer Gemeinde.

ESPAÑOL

Este símbolo en el producto o su embalaje indica que el producto no debe tratarse como residuo doméstico. De conformidad con la Directiva 2002/96/CE de la UE sobre residuos de aparatos eléctricos y electrónicos (RAEE), este producto eléctrico no puede desecharse con el resto de residuos no clasificados. Deshágase de este producto devolviéndolo al punta de venta o a un punta de recogida municipal para su reciclaje.

FRANÇAIS

Ce symbole sur le produit ou son emballage signifie que ce produit ne doit pas être traité comme un déchet ménager. Conformément à la Directive 2002/96/EC sur les déchets d'équipements électriques et électroniques (DEEE), ce produit électrique ne doit en aucun cas être mis au rebut sous forme de déchet municipal non trié. Veuillez vous débarrasser de ce produit en le renvoyant à son point de vente ou au point de ramassage local dans votre municipalité, à des fins de recyclage.

ITALIANO

Questo simbolo sui prodotto o sulla relativa confezione indica che il prodotto non va trattato come un rifiuto domestico. In ottemperanza alla Direttiva UE 2002/96/EC sui rifiuti di apparecchiature elettriche ed elettroniche (RAEE), questa prodotto elettrico non deve essere smaltito come rifiuto municipale misto. Si prega di smaltire il prodotto riportandolo al punto vendita o al punto di raccolta municipale locale per un opportuno riciclaggio.

POLSKI

Jeśli na produkcie lub jego opakowaniu umieszczono ten symbol, wówczas w czasie utylizacji nie wolno wyrzucać tego produktu wraz z odpadami komunalnymi. Zgodnie z Dyrektywą Nr 2002/96/WE w sprawie zużytego sprzętu elektrycznego i elektronicznego (WEEE), niniejszego produktu elektrycznego nie wolno usuwać jako nie posortowanego odpadu komunalnego. Prosimy o usuniecie niniejszego produktu poprzez jego zwrot do punktu zakupu lub oddanie do miejscowego komunalnego punktu zbiórki odpadów przeznaczonych do recyklingu.

WARRANTY INFORMATION

ENGLISH — For warranty information, go to www.manhattan-products.com/warranty.
DEUTSCH — Garantieinformationen finden Sie unter www.manhattan-products.com/warranty.
ESPAÑOL — Si desea obtener información sobre la garantía, visite www.manhattan-products.com/warranty.
FRANÇAIS — Pour consulter les informations sur la garantie, visitez www.manhattan-products.com/warranty.
POLSKI — Informacje dotyczące gwarancji znajdują się na stronie www.manhattan-products.com/warranty.
ITALIANO — Per informazioni sulla garanzia, accedere a www.manhattan-products.com/warranty.

EN MÉXICO: Poliza de Garantia MANHATTAN — Datos del importador y responsable ante el consumidor IC Intracom México, S.A. de C.V. • Av. Interceptor Poniente # 73, Col. Parque Industrial La Joya, Cuautitlan Izcalli, Estado de México, C.P. 54730, México. • Tel. (55)1500-4500

La presente garantía cubre los siguientes productos contra cualquier defecto de fabricación en sus materiales y mano de obra.

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