# 2D Long Range LED Barcode Scanner

# User Manual

Model 154116



manhattan®

Life just got easier.™

manhattanproducts.com

All trademarks and trade names are the property of their respective owners. © IC Intracom. All rights reserved. Manhattan is a trademark of IC Intracom, registered in the U.S. and other countries.

This manual is copyrighted, with all right reserved. Under the copyright laws, this manual may not, in whole or in part, be copied, photocopied, reproduced, translated or converted to any electronic medium or machine readable form without prior written consent of maker.

Thank you for purchasing the Manhattan 2D Long Range LED Barcode Scanner.

Before using this product, carefully read the manual to understand its functions.

# TABLE OF CONTENTS

BASIC INFORMATION ..... 6
ABOUT THE MANUAL ..... 6
PACKAGE DETAILS ..... 6
APPEARANCE SIZE ..... 6
INTERFACE ..... 7
USB CABLE CONNECTION ..... 7
DECODING ..... 7
SYSTEM SETTINGS ..... 8
CHECK THE VERSION NUMBER ..... 8
RECOVER THE DEFAULT SETTING ..... 8
INTERFACE MODE ..... 8
USB HID INTERFACE ..... 8
USB TRANSMISSION RATE ..... 8
USB TRANSMISSION DELAY ..... 9
EMULATE KEYBOARD ..... 9
KEYBOARD LANGUAGE COUNTRY TYPE ..... 10
KEYBOARD MODE ENCODING FORMAT ..... 11
CTRL+* MODE SEND ..... 11
USB COM INTERFACE ..... 13
READING MODE ..... 13
THE SAME BARCODE DELAY ..... 14
THE SAME BARCODE DELAY ..... 14
AUTOSENSE SENSITIVITY SETTINGS ..... 15
LIGHT SETTING ..... 15
POSITION LIGHT (AIMER) ..... 15
FILLING LIGHT (LED) ..... 15
INDICATOR ..... 15
BEEPER SETTING ..... 16
BEEPER LASTING TIME ..... 16
BEEPER FREQUENCY SETTING ..... 16
VIBRATION SETTING ..... 16
OUTPUT SETTING ..... 17
CARRIAGE RETURN/LINE FEED SETTING ..... 17
CASE CONVERSION ..... 17
CAPS LOCK DETENTION ..... 17
REMOVE DIGITS FROM BEGINNING/ENDING ..... 18
KEEP DATA FROM START/END ..... 18
BARCODE SYMBOLOGY CONFIGURATION ..... 19
QUICK SETTING OF BARCODE ENABLE/DISABLE SETTING ..... 19
BARCODE LENGTH SETTING ..... 19
TELEPEN LENGTH LIMIT ..... 19
MATRIX 25 LENGTH LIMIT ..... 19
CHINAPOST (DATALOGIC 2 OF 5) LENGTH LIMIT ..... 20
CODE 11 LENGTH LIMIT ..... 20

CODEABAR LENGTH LIMIT....20
INTERLEAVED25 LENGTH LIMIT....20
CODE 128 LENGTH LIMIT....20
CODE 93 LENGTH LIMIT....20
CODE 39 LENGTH LIMIT....21
INDUSTRIAL 25 LENGTH LIMIT....21
AIRLINE25(ITAT 25) LENGTH LIMIT....21
MSI LENGTH LIMIT....21
RSS-EXPEND(GS1 DATABAR EXPANDED) LENGTH LIMIT....21
2D BARCODE LENGTH SETTING....22
AIRLINE 2 OF 5 (STANDARD 2 OF 5/IATA 2 OF 5)....22
AZTEC CODE....22
CODABAR....23
CODABLOCK A....23
CODABLOCK F....23
CODE 128....24
CODE 11....24
CODE 32....24
CODE 39....25
CODE 93....25
COMPOSITE....26
DATA MATRIX CODE....26
DOT-CODE....26
EAN/UPC....27
EAN-8....28
EAN-13....28
GS1 DATABAR EXPANDED....28
GS1 DATABAR LIMITED....28
GS1 DATABAR OMNIDIRECTIONAL....29
HANXIN....29
HONG KONG 2 OF 5(CHINA POST)....29
INTERLEAVED 2 OF 5....30
MATRIX 2 OF 5....30
MAXICODE....31
MSI....31
MICRO PDF417....31
PDF417....31
PHARMACODE....31
MICRO QR CODE....32
QR CODE....32
RSS-14....32
RSS-LIMITED....33
RSS-EXPANDED....33
STRAIGHT 2 OF 5 INDUSTRIAL....33
TELEPEN....33
TRIOPTIC CODE....33
UPC-A....34
UPC-E....35
GRIDMATRIX....35
ISBN 13 CONVERSION SETTING....36

ISBN 13 CONVERSION SETTING ..... 37
GS CHARACTER CONVERSION ..... 38
GS OUTPUT MODE ..... 38
CODE ID SETTING ..... 39
ANNEX: CODE ID TABLE ..... 39
CONTROL CHARACTER OUTPUT ..... 39

# BASIC INFORMATION

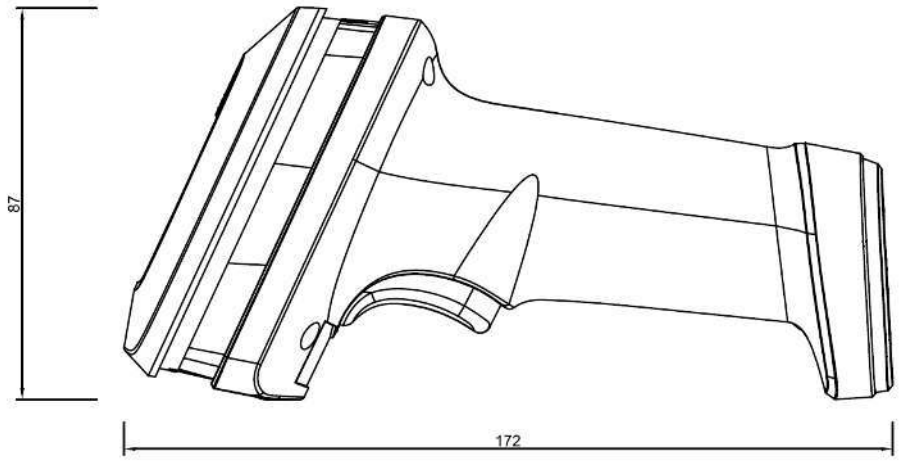
## ABOUT THE MANUAL

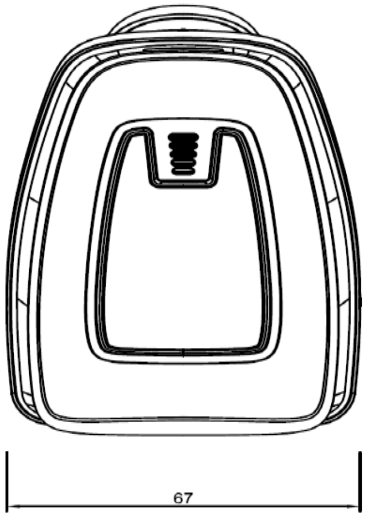
This user manual includes interface mode settings, function settings (lighting, keyboard type and factory reset, etc.), symbology settings, exposure optimization in special scenes, and data format editing functions. If you need to change the function you need, scan the corresponding configuration code below. All bands (*) indicate factory default values.

## PACKAGE DETAILS

| ITEM | SPECIFICATION / MODEL | NUMBER | NOTE |
|---|---|---|---|
| **Barcode scanner** | 2D Long Range LED Barcode Scanner | 1 | |
| **Data Cable** | USB | 1 | |
| **Quick Installation Guide** | Paper | 1 | |

## APPEARANCE SIZE



# INTERFACE

## USB CABLE CONNECTION

1 Insert the RJ45 interface (crystal head) of the USB data cable into the rear of the scanner, there is a crisp "click" sound, and the connection is normal.
2 Connect the USB interface of the USB data cable to the host device.

## DECODING

1 Make sure that both ends of the cable are properly connected to the scanner and the host, and there is a prompt sound when starting.
2 Press the button, the fill light of window is on, accompanied by a green dot.
3 Aim the green dot at the barcode. After the reading is successful, the scanner will sound a beep, and turn off the fill light and aiming light. After the data is transmitted to the host, press the switch again to read the barcode.
4 In the process of reading barcode, the different sizes and density of the barcode, the effective reading distances are also different. When there is difficulty in reading, the scanner can be moved back and forth, adjust the distance between the scanner and the barcode to improve the success rate of reading.

# SYSTEM SETTINGS

## CHECK THE VERSION NUMBER

Read the "Version Information" barcode, the scanner will output software version.




**Version Number**

## RECOVER THE DEFAULT SETTING

Restore the system setting state to the default setting state. The scanner will restart automatically after setting.




**Restore the Default Setting**

## INTERFACE MODE

### USB HID INTERFACE

When the data cable with USB interface, after read the "USB HID" barcode, scanner will be set to the "USB Keyboard" mode, and the scanner will input data to the host by pressing the keyboard button first.




**USB HID (USB Keyboard)**

When the data output is wrong, please turn off the third-party output method and use the American English keyboard, because the third-party input method will edit the input data for a second time before outputting, and the data output will be incomplete, wrong or garbled.

### USB TRANSMISSION RATE

The USB Transmission Rate can be set to three levels: high, medium, and low. The higher the rate, the faster the characters are transmitted to the host.




**USB Transmission Rate-High**




**USB Transmission Rate-Medium**




**USB Transmission Rate-Low**

## USB TRANSMISSION DELAY

The USB Transmission Delay can be set to four gears from 0 to 3. If the host will lose characters, the delay can be increased.




**USB Transmission Delay – 0ms**




**USB Transmission Delay –1ms**




**USB Transmission Delay – 2ms**




**USB Transmission Delay – 3ms**

## EMULATE KEYBOARD

When the emulate keyboard input character is enabled, the character will be sent through the numeric keypad, ignoring the national keyboard layout setting;

**EXAMPLE**

Assume that the current scanner reads the barcode with the content "A§F" (the decimal value in Code Page 1252 is 65/167/66 respectively). If the keyboard emulation input character is set to "on", the scanner emulates the keyboard operation as follows:

1. Enter "A" -- press the ALT key, simultaneously press the numeric keypad keys 0, 6, 5 in sequence, and release the ALT key;
2. Enter "§" -- press the ALT key, simultaneously press the numeric keypad keys 1, 6, 7 in sequence, and release the ALT key;
3. Enter "B" - press the ALT key, simultaneously press the numeric keypad keys 0, 6, 6 in sequence, and release the ALT key.




**Enable**




***Disable**




**Enable the emulate keyboard front zero**




**Disable the emulate keyboard front zero**

## KEYBOARD LANGUAGE COUNTRY TYPE

When the barcode scanner is used as a keyboard input device by default, some characters are different in different countries, and different national languages need to be set. The keyboard defaults to the US language.


A69E60

**Belgium**


A69E61

**United Kingdom**


A69E62

**France**


A69E63

**German**


A69E64

**Italy**


A69E65

**Spain**


A69E66

***America**


A69E68

**Singapore**


A69E69

**El Salvador**


A69E610

**Japan**


A69E611

**Sierra Leone**


A69E612

**Turkey**


A69E614

**Belgium**


A69E616

**Thailand**


A69E617

**Vietnam**


A69E622

**The Czech Republic**


A69E623

**Slovakia**


A69E624

**Russia(CP866)**


A69E626

**Arabic**


A69E627

**Portugal BRAZ_ABNT--Brazil**


A69E628

**Swiss GERMAN_QWERTZ--German keyboard**


A69E630

**Swiss FRENCH_QWERTZ French keyboard**


A69E631

**Portugal**

## KEYBOARD MODE ENCODING FORMAT

The keyboard mode can output Chinese, traditional Chinese, Korean, etc. Since the third-party software uses different encoding, the scanner needs to switch to different encoding formats, please scan the corresponding configuration code as required.




***Default**




**GBK**




**Word Output Japanese**




**Txt output Japanese**




**CP949 Word Output Korean**




**Notepad Output Korean**




**BIG5 (Traditional Chinese)**




**Txt output BIG5 (Need to enable BIG5 setting)**

## CTRL+* MODE SEND

After this function is enabled, the control characters from 00 to 1F in the ASCII code table will be output by the combination of CTRL+*.

For the corresponding relationship between the specific ASCII value and the control function keys, see the attached table.

| NON-PRINTABLE | | KEYBOARD CONTROL + ASCII (CTRL+*) MODE | | | |
|---|---|---|---|---|---|
| DEC | HEX | CHAR | CONTROL + * MODE OFF | WINDOWS MODE CONTROL + * MODE ON | |
| | | | | CTRL+ * | CTRL + * FUNCTION |
| 0 | 00 | NUL | NULL | CTRL + @ | |
| 1 | 01 | SOH | NP Enter | CTRL + A | Select All |
| 2 | 02 | STX | Caps Lock | CTRL + B | Bold |
| 3 | 03 | ETX | Right Arrow | CTRL + C | Copy |
| 4 | 04 | EOT | Up Arrow | CTRL + D | Bookmark |
| 5 | 05 | ENQ | NULL | CTRL + E | Center |
| 6 | 06 | ACK | NULL | CTRL + F | Find |
| 7 | 07 | BEL | Enter | CTRL + G | |
| 8 | 08 | BS | Left Arrow | CTRL + H | History |
| 9 | 09 | HT | Tab | CTRL + I | Italic |
| 10 | 0A | LF | Down Arrow | CTRL + J | Justify |

| NON-PRINTABLE | | KEYBOARD CONTROL + ASCII (CTRL+*) MODE | | | |
|---|---|---|---|---|---|
| DEC | HEX | CHAR | CONTROL + * MODE OFF | WINDOWS MODE CONTROL + * MODE ON | |
| | | | | CTRL+ * | CTRL + * FUNCTION |
| 11 | 0B | VT | Tab | CTRL + K | Hyperlink |
| 12 | 0C | FF | Backspace | CTRL + L | List, Left Align |
| 13 | 0D | CR | Enter / Ret | CTRL + M | |
| 14 | 0E | SO | Insert | CTRL + N | New |
| 15 | 0F | SI | ESC | CTRL + O | Open |
| 16 | 10 | DLE | F11 | CTRL + P | Print |
| 17 | 11 | DC1 | Home | CTRL + Q | Quit |
| 18 | 12 | DC2 | PrtScn | CTRL + R | |
| 19 | 13 | DC3 | Delete | CTRL + S | Save |
| 20 | 14 | DC4 | Tab + Shift | CTRL + T | |
| 21 | 15 | NAK | F12 | CTRL + U | |
| 22 | 16 | SYN | F1 | CTRL + V | Paste |
| 23 | 17 | ETB | F2 | CTRL + W | |
| 24 | 18 | CAN | F3 | CTRL + X | |
| 25 | 19 | EM | F4 | CTRL + Y | |
| 26 | 1A | SUB | F5 | CTRL + Z | |
| 27 | 1B | ESC | F6 | CTRL + [ | |
| 28 | 1C | FS | F7 | CTRL + \ | |
| 29 | 1D | GS | F8 | CTRL + ] | |
| 30 | 1E | RS | F9 | CTRL + ^ | |
| 31 | 1F | US | F10 | CTRL + - | |
| 127 | 7F | DEL | Delete | | |

# USB COM INTERFACE

In this section, you can change the reading mode of the device, you only need to scan the corresponding setting code according to your needs.

After the scanner of the USB interface is set to "USB COM", the data will be transmitted to the host through the serial port;




**USB COM (Virtual serial port)**

## READING MODE

The stop digit is located at the last part of each byte transmitted, and is used to mark the completion of the transmission of this byte to start receiving the next byte of data.

| MODE | DESCRIPTION |
|---|---|
| **Manual** | |
| **Automatic** | After power on, it has been in the state of reading codes. Pressing and releasing the button can briefly switch the scanner between manual and automatic states. In this mode, the reread delay can be used to prevent the same barcode from being read multiple times. |
| **Multiple Reading** | When the button is pressed, the scanner starts to read barcode, and it stops reading barcode until the button is released. When the key is pressed and the code is successfully read, there will be a prompt tone and the barcode information will be output. As long as the key is not released, the scanner will continue to read barcode. The same barcode is only allowed to be read and output once while the key is pressed. |
| **Good Read Off** | When the button is pressed, the scanner starts to read barcode, and stops reading barcode until barcode reading is successful or the set time of a code reading timeout is reached. In this mode, a barcode reading timeout starts from the time the button is released. |
| **Auto-Sense** | The scanner enters the induction mode, which can be used with a stand. When an object passes through the scanning window, the scanner will be awakened, the fill light will be lit, and the code will be read. When the decoding time is exceeded, the fill light is turned off. |




*** Manual Mode (Trigger On/Off)**




**Automatic Mode**




**Multiple Reading Mode**




**Good Read Off**




**Auto-Sense**

## THE SAME BARCODE DELAY

The same barcode delay only takes effect in automatic mode. After reading a barcode in automatic mode, it will refuse to read the same barcode within the set time period. It can be read and output only after the time period is exceeded.

The same barcode time can be set to 1~127 (min. is 1, max. is 127), can be edited freely with barcode software, choose to use CODE128 code. "7EFD6X"(X means the same barcode interval time, 1 means 50ms, 127 means 127*50ms ).




**50 ms**




**100 ms**




**150 ms**




**200 ms**




**250 ms**




**300 ms**




**500 ms**




*** 750 ms**

## BARCODE READING TIMEOUT




**15 S**




*** 30 S**




**60 S**




**120 S**




**180 S**




**200 S**

## AUTOSENSE SENSITIVITY SETTINGS

Sensitivity is 15 classes (B67A61 to BA67A615), class 1 highest, class 15 lowest.




**Class 1**




**Class 2**




**Class 3**




**Class 4**




**Class 5**




**Class 8**




**Class 10**




**Class 15**

# LIGHT SETTING

## POSITION LIGHT (AIMER)




*** Enable**




**Disable**

## FILLING LIGHT (LED)




*** Enable**




**Disable**

## INDICATOR




*** Normal**




**Always OFF**




**Backwards**




**Always ON**

# BEEPER SETTING




*** Enable**




**Disable**

## BEEPER LASTING TIME




**Normal**




**Short**

## BEEPER FREQUENCY SETTING




***2.7KHz**




**1.6KHz**




**2.0KHz**




**2.4KHz**




**3.1KHz**




**3.5KHz**




**4.2KHz**




**Silent**

## VIBRATION SETTING




**Enable**




*** Disable**

# OUTPUT SETTING

In this chapter, you can configure the output of the device, including carriage return/ line feed, serial port encoding setting, setting barcode length, removing barcode digits (remove/keep from beginning and ending), and multi-countries keyboard switching settings, etc. You only need to read the barcode according to the requirements.

## CARRIAGE RETURN/LINE FEED SETTING




***Add Carriage Return**




**Cancel Carriage Return**




**Add Line Feed**




***Cancel Line Feed**

## CASE CONVERSION

Letter conversion: when outputting barcodes with letter content, you can configure the output result to be all uppercase or all lowercase.

For example: the barcode content is ab12DE, if you scan the "all uppercase" barcode, the output result will be AB12DE; if you scan the "all lowercase" barcode, the output result will be abc12de; if you scan the "case conversion" barcode, the output result will be AB12de; the default case is not converted.




**All Lowercase**




**All Uppercase**




**Case Conversion**




***Not Convert**

## CAPS LOCK DETENTION




**Enable**




*** Disable**

## REMOVE DIGITS FROM BEGINNING/ENDING

Remove digits from Beginning/Ending can be used at the same time.

| MODE | DESCRIPTION |
|---|---|
| Remove digits from Beginning | "B68E6X" (X is the number of digits to remove. If the last number is 1, it means remove one digit; if it is 2, remove two digits; if it is 0, it is not removed.) |
| Remove digits from Ending | "B6BE6X" (X is the number of digits to remove. If the last number is 1, it means remove one digit; if it is 2, remove two digits; if it is 0, it is not removed.) |




**Remove 1 digit from Beginning**




**Remove 1 digit from Ending**

## KEEP DATA FROM START/END

You can only choose to keep the beginning or ending digit, but not both. Scan "AC8760" from the digit of the reserved barcode at the beginning, scan "AC8761" from the digit of the reserved barcode at the ending, and then scan the reserved digit barcode, "B69E6X" X is the digit of the reserved data.

For example, if 9 bits are reserved, the maximum number of B69E69 is 255.




**Keep beginning digit**




**Keep ending digit**




**Keep 9 digits**

Keep the header or keep the tail data is a single option and cannot take effect at the same time. When it is used in combination with the delete data setting, the data will be edited and output in the order of the settings.

# BARCODE SYMBOLOGY CONFIGURATION

This chapter can configure the Barcode Symbology Configuration of the device, including barcode enable/disable, check enable/disable, check output enable/disable, etc.

## QUICK SETTING OF BARCODE ENABLE/DISABLE SETTING




**Enable All Symbology**




**Disable All Symbology**




**Enable All 1D Symbology**




**Disable All 1D Symbology**




**Enable All 2D Symbology**




**Disable All 2D Symbology**

## BARCODE LENGTH SETTING

The barcode length setting code can be edited freely with barcode software, and CODE128 can be selected. For example, the minimum length setting of Telepan is ^3B76E61, 1 means that the barcode with the minimum length of 1 digit can be read, and the maximum length setting code is ^3B77E6255, which means the barcode with the maximum length of 255 digits can be read.

### TELEPEN LENGTH LIMIT




**The min. Length of Telepen is 1 digit**




**The max. Length of Telepen is 255 digits**

### MATRIX 25 LENGTH LIMIT




**The min. Length of Matrix 25 is 1 digit**




**The max. Length of Matrix 25 is 255 digits**

## CHINAPOST (DATALOGIC 2 OF 5) LENGTH LIMIT




The min. Length of Chinapost is 1 digit




The max. Length of Chinapost is 255 digits

## CODE 11 LENGTH LIMIT




The min. Length of Code 11 is 1 digit




The max. Length of Code 11 is 255 digits

## CODEABAR LENGTH LIMIT




The min. Length of Codeabar is 1 digit




The max. Length of Codeabar is 255 digits

## INTERLEAVED25 LENGTH LIMIT




The min. Length of Interleaved25 is 1 digit




The max. Length of Interleaved25 is 255 digits

## CODE 128 LENGTH LIMIT




The min. Length of Code128 is one digit




The max. Length of Code128 is 255 digits

## CODE 93 LENGTH LIMIT




The min. Length of Code 93 is one digit




The max. Length of Code 93 is 255 digits

## CODE 39 LENGTH LIMIT




The min. Length of Code 39 is one digit




The max. Length of Code 39 is 255 digits

## INDUSTRIAL 25 LENGTH LIMIT




The min. Length of Industrial 25 is one digit




The max. Length of Industrial 25 is 255 digits

## AIRLINE25(ITAT 25) LENGTH LIMIT




The min. Length of Airline25 is one digit




The max. Length of Airline25 is 255 digits

## MSI LENGTH LIMIT




The min. Length of MSI is one digit




The max. Length of MSI is 255 digits

## RSS-EXPEND(GS1 DATABAR EXPANDED) LENGTH LIMIT




The min. Length of RSS-expend is one digit




The max. Length of RSS-expend is 255 digits

## 2D BARCODE LENGTH SETTING

The minimum length of the 2D barcode can be set to 1~255 (the minimum length is 1, the maximum length is 255) , 67EE6X (X represents the length of the barcode)




**The min. length of the 2D barcode is 1**




**The min. length of the 2D barcode is 255**

2D barcode length lock: After locking, only fixed-length 2D barcodes can be read, 67FE6X (X represents the data length)

Setting example: ^367FE620, the last two digits of "20" represent only read the 2D barcode with a barcode data length of 20 digits;




**Only read 2D Barcode with 20-digit data**

## AIRLINE 2 OF 5 (STANDARD 2 OF 5/IATA 2 OF 5)




**Enable**




***Disable**

## AZTEC CODE




**Enable**




***Disable**

### AZTEC CODE DIRECT AND REVERSE COLOR




*** Regular**




**Both**

# CODABAR


6677A1

* Enable


6677A0

Disable

### CODABAR CHECK


9EF880

*Disable Check


9EF881

Enable check and output check character


9EF882

Enable check but not output check character

### CODABAR STOP BIT


6DD7D1

Enable output beginning & ending character


6DD7D0

* Disable output beginning & ending character

### CODABAR DIRECT AND REVERSE COLOR


A888C0

* Regular


A888C1

Both

# CODABLOCK A


8CA761

Enable


8CA760

* Disable

# CODABLOCK F


8CA771

Enable


8CA770

* Disable

## CODE 128


667791

* Enable


667790

Disable

### CODE 128 DIRECT AND REVERSE COLOR


A878B0

* Regular


A878B1

Both

## CODE 11


666791

Enable


666790

Disable

### CODE 11 CHECK


66B7C1

* Enable Check


66B7C0

Disable Check


6E67B0

*One check bit


6E67B1

Two check bits


6DD791

Enable transmit check character


6DD790

*Disable transmit check character

## CODE 32


6687B1

Enable


6687B0

* Disable

# CODE 39

667771

* Enable

667770

Disable

### CODE 39 CHECK

9F6862

Enable Check

9F6860

* Disable Check

9F6861

Enable check and transmit check character

9F6781

Enable output beginning & ending digit

9F6780

* Disable output beginning & ending digit

### FULL ASCII CODE39

6687D1

Enable

6687D0

Disable

### CODE 39 DIRECT AND REVERSE COLOR

A88880

* Regular

A88881

Both

# CODE 93

667781

Enable

667780

* Disable

### CODE 93 DIRECT AND REVERSE COLOR

A88860

* Regular

A88861

Both

## COMPOSITE

To enable this symbology, both Micro PDF and RSS-14 must be enabled at the same time.


A66761

**Enable**


A66760

***Disable**

## DATA MATRIX CODE


66B791

**Enable**


66B790

**Disable**

### MATRIX DM


A7F791

**Enable Matrix DM**


A7F790

**Disable Matrix DM**

### LATTICE DM


66B761

**Enable Lattice DM(DPM)**


66B760

**Disable Lattice DM(DPM)**

### DATA MATRIX DIRECT AND REVERSE COLOR


66B780

**Regular**


66B883

***Both**

## DOT-CODE


A7F771

**Enable**


A7F770

**Disable**

### DOT-CODE DIRECT AND REVERSE COLOR


A66780

**Enable Matrix DM**


A66781

**Disable Matrix DM**

# EAN/UPC


6677C1

* Enable


6677C0

Disable

## EAN/UPC DIRECT AND REVERSE COLOR


A87860

*Regular


A87861

Both

## EAN/UPC TWO-DIGITS ADDITIONAL CODE


6787D1

Enable


6787D0

*Disable

## EAN/UPC FIVE-DIGITS ADDITIONAL CODE


6787C1

Enable


6787C0

*Disable

## MERGE THE ADDITIONAL CODE


678760

Enable


678761

*Disable

## EAN/UPC ADDITIONAL CODE THAT MUST BE RECOGNIZED


678791

Enable


678790

*Disable

## EAN/UPC BOUNDARY DETECTION (QUITE ZONE)


AE8860

*Normal Border


AE8861

Narrow Border


AE8862

Borderless

## EAN-8


6687A1

* Enable


6687A0

Disable

### EAN-8 CHECK


6DF761

*Enable output check bit


6DF760

Disable output check bit

### EAN-8 CONVERT TO EAN-13


6DB781

Enable


6DB780

*Disable

## EAN-13


668771

* Enable


668770

Disable

### EAN-8 CHECK


6DF781

*Enable output check bit


6DF780

Disable output check bit

## GS1 DATABAR EXPANDED


66A7B1

Enable


66A7B0

* Disable

## GS1 DATABAR LIMITED


66A7A1

Enable


66A7A0

* Disable

## GS1 DATABAR OMNIDIRECTIONAL


66A791

**Enable**


66A790

*** Disable**

## HANXIN


8D9771

**Enable**


8D9770

*** Disable**

## HONG KONG 2 OF 5(CHINA POST)


6697C1

**Enable**


6697C0

*** Disable**

When reading a postal, all other postal need close.

# INTERLEAVED 2 OF 5


6677B1

* Enable


6677B0

Disable

### INTERLEAVED 2 OF 5 CHECK


9EF861

Open check


9EF860

*No check


9EF862

Open check and transmit check character

### INTERLEAVED 2 OF 5 DIRECT AND REVERSE COLOR


A888A0

* Regular


A888A1

Both

### FEBRABAN BARCODE


AF6761

Enable


AF6760

*Disable

# MATRIX 2 OF 5


6667B1

Enable


6667B0

* Disable

### MATRIX 2 OF 5 CHECK


66B7D1

Enable check bit


66B7D0

Disable check bit


6DE781

Enable output check bit


6DE780

*Disable output check bit

## MAXICODE


66C7A1

Enable


66C7A0

* Disable

## MSI


668781

Enable


668780

* Disable

## MICRO PDF417


66A7D1

Enable


66A7D0

* Disable

## PDF417


666761

* Enable


666760

Disable

**PDF417 DIRECT AND REVERSE COLOR**


A8D860

*Regular


A8D861

Both

## PHARMACODE


ACF7B1

Enable


ACF7B0

Disable

## MICRO QR CODE


66C7B1

Enable


66C7B0

* Disable

### MICRO QR CODE DIRECT AND REVERSE COLOR


66C7C0

*Regular


66C7C1

Both

## QR CODE


66C781

* Enable


66C780

Disable

### QR CODE DIRECT AND REVERSE COLOR


66C790

*Regular


66C791

Both

### QR CODE DOT MATRIX


AE87C1

Enable


AE87C0

Disable

### QR CODE URL CODE


A6E760

* Enable


A6E761

Disable

## RSS-14


66A791

Enable


66A790

* Disable

## RSS-LIMITED


66A7A1

Enable


66A7A0

* Disable

## RSS-EXPANDED


66A7B1

Enable


66A7B0

* Disable

## STRAIGHT 2 OF 5 INDUSTRIAL


667761

Enable


667760

* Disable

## TELEPEN


6667D1

Enable


6667D0

* Disable

## TRIOPTIC CODE


669781

Enable


669780

* Disable

# UPC-A




*Enable




Disable

## UPC-A CHECK




*Enable output check bit




Disable output check bit

## UPC-A OUTPUT NUMERIC SYSTEM CHARACTERS




*Enable




Disable

## UPC-A CONVERT TO EAN-13




Enable




* Disable

## UPC-E




*Enable




Disable

### UPC-E CHECK




Enable output check bit




* Disable output check bit

### UPC-E OUTPUT HEADER CHARACTERS (SYSTEM CHARACTERS)




Enable




* Disable

### UPC-E CONVERT TO UPC-A(EXTEND TO 12 BITS)




Enable




* Disable

## GRIDMATRIX




*Enable




Disable

# ISBN 13 CONVERSION SETTING

### CONVERT TO ISBN




Enable




* Disable

### 978 BEGINNING BARCODE ISBN CONVERSION




Enable




* Disable

### 979 BEGINNING BARCODE ISBN CONVERSION




Enable




* Disable

### ADD BOOKLAND PREFIX




Enable




* Disable

### TRANSMIT ISBN CHECK DIGIT




Enable




* Disable

# ISBN 13 CONVERSION SETTING

### CONVERT BARCODES STARTING WITH 977 TO ISSN


7B77D1

Enable


7B77D0

* Disable

### ISSN CONVERT TO "-"


7B77C1

Enable


7B77C0

* Disable

### TRANSMITTING THE CHECK DIGIT OF THE ISSN


7B77B1

Enable


7B77B0

* Disable

# GS CHARACTER CONVERSION

This mode is to output GS control characters as text characters.




**Enable control character conversion**




**Disable control character conversion**

## GS OUTPUT MODE




**GS is replaced by |**




**GS is replaced by <GS>**




**GS is replaced by (GS)**




**GS is replaced by'GS'**




**GS is replaced by `GS`**




**GS is replaced by GS**

# CODE ID SETTING

A8E7A1

Enable output Code ID

A8E7A0

* Disable output Code ID

## ANNEX: CODE ID TABLE

| BARCODE | CODE ID | BARCODE | CODE ID |
|---|---|---|---|
| **Airline 2 of 5 (Standard 2 of 5/IATA 2 of 5)** | f | HANXIN | H |
| **Aztec Code** | z | Interleaved 2 of 5 | e |
| **Codabar** | a | Hong Kong 2 of 5(China post) | Q |
| **Codablock A** | V | Matrix 2 of 5 | m |
| **Codablock F** | q | Maxicode | |
| **Code 128** | j | MSI | g |
| **Code 11** | h | Micro PDF417 | R |
| **Code 32** | < | PDF417 | r |
| **Code 39** | b | Pharmacode | |
| **Code 93** | i | Micro QR Code | s |
| **Composite** | ! | QR Code | s |
| **Data Matrix** | w | RSS-14 | y |
| **EAN-8** | D | RSS-Limited | { |
| **EAN-13** | d | RSS-Expanded | } |
| **GS1 DataBar Expanded** | } | Straight 2 of 5 Industrial | f |
| **GS1 DataBar Limited** | { | Telepen | t |
| **GS1 DataBar Omnidirectional** | y | Trioptic Code | = |
| **UPC-A** | c | DOT_Code | . |
| **UPC-E** | E | ISBN 13 | d |
| **GridMatrix** | X | ISSN | d |

# CONTROL CHARACTER OUTPUT

After this function is enabled, control characters (invisible characters) are output as text characters, for example, carriage return is output as <CR>.

A867D1

**Enable**

A867D0

**Disable**

Due to product improvement programs, specifications and features are subject to change without prior notice.

## 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 means that this product must not be treated as unsorted household waste. In accordance with EU Directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE), this electrical product must be disposed of in accordance with the user's local regulations for electrical or electronic waste. Please dispose of this product by returning it to your local point of sale or recycling pickup point in your municipality.

**DEUTSCH:** Dieses auf dem Produkt oder der Verpackung angebrachte Symbol zeigt an, dass dieses Produkt nicht mit dem Hausmüll entsorgtwerden darf. In Übereinstimmung mit der Richtlinie 2012/19/EU 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 2012/19/EU de la UE sobre residuos de aparatos eléctricos y electrónicos (RAEE), este producto eléctrico no puede desecharse se con el resto de residuos no clasificados. Deshágase de este producto devolviéndolo a su punto de venta o a un punto de recolección 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 2012/19/EU 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 2012/19/EU 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 2012/19/EU 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 • GARANTIEINFORMATIONEN • GARANTÍA • GARANTIE • GWARANCJI • GARANZIA

manhattanproducts.com

**EN MÉXICO:** Póliza de Garantía Intellinet Network Solutions — Datos del importador y responsable ante el consumidor IC Intracom México, S.A.P.I. de C.V. • Av. Interceptor Poniente # 73, Col. Parque Industrial La Joya, Cuautitlán 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.

A. Garantizamos los productos de limpieza, aire comprimido y consumibles, por 60 dias a partir de la fecha de entrega, o por el tiempo en que se agote totalmente su contenido por su propia función de uso, lo que suceda primero.
B. Garantizamos los productos con partes móviles por 3 años.
C. Garantizamos los demás productos por 5 años (productos sin partes móviles), bajo las siguientes condiciones:
   1. Todos los productos a que se refiere esta garantía, ampara su cambio físico, sin ningún cargo para el consumidor.
   2. El comercializador no tiene talleres de servicio, debido a que los productos que se garantizan no cuentan con reparaciones, ni refacciones, ya que su garantía es de cambio físico.
   3. La garantía cubre exclusivamente aquellas partes, equipos o sub-ensambles que hayan sido instaladas de fábrica y no incluye en ningún caso el equipo adicional o cualesquiera que hayan sido adicionados al mismo por el usuario o distribuidor.

Para hacer efectiva esta garantía bastará con presentar el producto al distribuidor en el domicilio donde fue adquirido o en el domicilio de IC Intracom México, S.A.P.I. de C.V., junto con los accesorios contenidos en su empaque, acompañado de su póliza debidamente llenada y sellada por la casa vendedora (indispensable el sello y fecha de compra) donde lo adquirió, o bien, la factura o ticket de compra original donde se mencione claramente el modelo, número de serie (cuando aplique) y fecha de adquisición. Esta garantía no es válida en los siguientes casos: Si el producto se hubiese utilizado en condiciones distintas a las normales; si el producto no ha sido operado conforme a los instructivos de uso; o si el producto ha sido alterado o tratado de ser reparado por el consumidor o terceras personas.

## REGULATORY STATEMENTS

FCC 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; or consult the dealer or an experienced radio/TV technician for help.

CE

**ENGLISH:** This device complies with the requirements of CE 2014/30/EU and/or 2014/35/EU. The Declaration of Conformity for is available at:
**DEUTSCH:** Dieses Gerät enspricht der CE 2014/30/EU und / oder 2014/35/EU. Die Konformitätserklärung für dieses Produkt finden Sie unter:
**ESPAÑOL:** Este dispositivo cumple con los requerimientos de CE 2014/30/EU y / o 2014/35/EU. La declaración de conformidad esta disponible en:
**FRANÇAIS:** Cet appareil satisfait aux exigences de CE 2014/30/EU et / ou 2014/35/EU. La Déclaration de Conformité est disponible à:
**POLSKI:** Urządzenie spełnia wymagania CE 2014/30/EU I / lub 2014/35/EU. Deklaracja zgodności dostępna jest na stronie internetowej producenta:
**ITALIANO:** Questo dispositivo è conforme alla CE 2014/30/EU e / o 2014/35/EU. La dichiarazione di conformità è disponibile al:

**support.manhattanproducts.com/barcode/154116**


| North America | Asia & Africa | Europe |
|---|---|---|
| IC Intracom America | IC Intracom Asia | IC Intracom Europe |
| 550 Commerce Blvd. | 4-F, No. 77, Sec. 1, Xintai 5th Rd. | Löhbacher Str. 7, D-58553 |
| Oldsmar, FL 34677 USA | Xizhi Dist., New Taipei City 221, Taiwan | Halver, Germany |


All trademarks and trade names are the property of their respective owners.
Alle Marken und Markennamen sind Eigentum Ihrer jeweiligen Inhaber.
Todas las marcas y nombres comerciales son propiedad de sus respectivos dueños.
Toutes les marques et noms commerciaux sont la propriété de leurs propriétaires respectifs.
Wszystkie znaki towarowe i nazwy handlowe należą do ich właścicieli.
Tutti i marchi registrati e le dominazioni commerciali sono di proprietà dei loro rispettivi proprietari.




manhattanproducts.com

All trademarks and trade names are the property of their respective owners.
© IC Intracom. All rights reserved. Manhattan is a trademark of IC Intracom, registered in the U.S. and other countries.

MH_154116_UM_0524_REV_6.01