

Wireless Scanner

- MS910 -



User's Manual

Version 1.0

Table of Contents

Chapter 1	
Overview	1
Introducing the MS910	1
Package Contents.....	2
Chapter 2	
Installation and Connection	5
Connecting (Pairing) the Scanner to a Host PC.....	5
<i>Connecting via Serial Port Profile (SPP) Mode.....</i>	<i>5</i>
<i>Connecting via Human Interface Device (HID) Mode.....</i>	<i>5</i>
<i>Smartphone Connection (Android).....</i>	<i>7</i>
Power Management	7
<i>Scanner LED & Beeper Indication.....</i>	<i>8</i>
Charging the Battery	8
Chapter 3	
Specification	9
Chapter 4	
User Preferences.....	11
Appendix A	
Examples	17
Quick Setup Sheet	17
Beeps and Delays Group 1	19
Keyboard Wedge Settings Group 2.....	20
Scanner Port: Group 3	21
Define Code ID Group 3.....	22
Code 39 / Full ASCII Code Group 4	23
I 2 of 5 Group 5.....	24
S 2 of 5 / Code 32 Group 6	25
EAN 128 Group 7	26
Code 128/ Code 93 / MSI Code Group 8.....	27

Code 11 / Codabar Group 9.....	28
UPC / EAN Code Group 10.....	29
UPC / EAN Code Group 11	30
Supplement Code Group 12 / MATRIX 2 Of 5 Group 13.....	31
IATA Group 14	32
UK PLESSY CODE GROUP - 15.....	32
Full ASCII Chart.....	33
Barcode Chart.....	36
Appendix B	
Worldwide Support	37

Overview

Introducing the MS910

The MS910 scanner combines miniaturized barcode scan engine and wireless technology to provide the best value in a wireless handheld scanner. Featuring lightweight and ease-of-use, the MS910 scanner ensures the productivity and mobility of your business application.

The MS910 is the smallest wireless scanners in the market and is compatible with all major OS on the nowadays popular smartphones and tablet PC via both HID and SPP profiles.

Enjoy the benefits of accelerated productivity, lower cost of ownership, and freedom of movement. The MS910 is a multipurpose scanner from a partner you can trust.






Thank you for choosing Unitech products.

Application:

- ✓ Warehouse
- ✓ Pharmacy
- ✓ Healthcare Services
- ✓ Retail
- ✓ Point of Sale (POS)
- ✓ Inventory Management
- ✓ Smartphone & Tablet PC

Package Contents

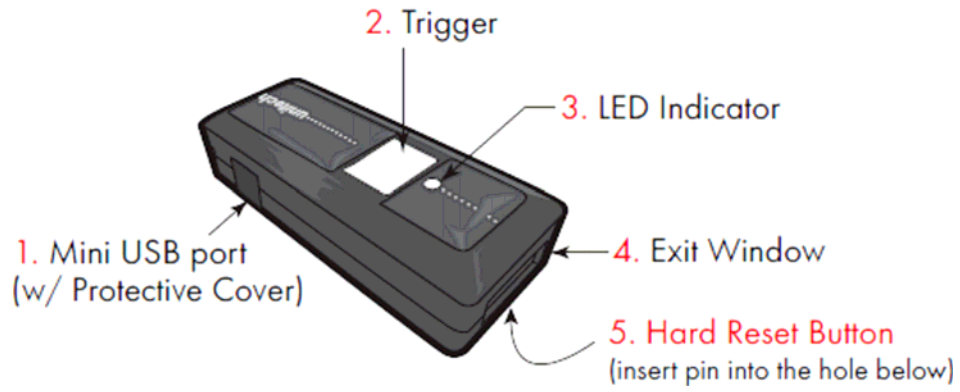
Please make sure the following contents are in the MS910 box. If something is missing or damaged, please contact your Unitech representative.

		
MS910 scanner	Product Resource CD	Quick Guide
		
USB Charging Cable	Hand Strap	

Note:

1. Environmental temperature for charging should be within 0°C – 50°C (32°F – 122°F).
2. The scanner's default power off (idle mode) time is 3 minutes.
3. Please charge scanner for at least 2 hours prior to initial use.

[Scanner Detail]



1	Mini USB port	4	Exit Window
2	Trigger	5	Hard Reset Button
3	LED Indicator		

Installation and Connection

Connecting (Pairing) the Scanner to a Host PC

Please make sure your PC or Smart Phone has a built-in wireless adaptor; the MS910 supports both HID and SPP wireless profiles. If you are connecting it to an iOS (Apple) smart phone, please follow the instruction of “Connecting via Human Interface Device (HID) Mode”; if you are connecting it to an Android smart phone, please follow the instruction of “Connecting via Serial Port Profile (SPP) Mode”

Connecting via Serial Port Profile (SPP) Mode

1. Turn on the wireless device on your host.
2. Scan [Disconnect] barcode.
3. Press the trigger for 1 second to activate the scanner.
4. Scan the [SPP] barcode below:



5. The scanner will emit 8 beeps.
6. Conduct a search for the MS910 on your host. Select “Wireless Scanner” from discovered device list and the scanner will beep twice.
7. Enter pincode, which is “1234” by default.
8. Open serial communication software with com port (see Device Manager) properly set up.
9. The scanner will beep twice and the indicator LED will turn off to verify the successful connection.

Connecting via Human Interface Device (HID) Mode

1. Turn on the wireless device on your host.
2. Scan [Disconnect] barcode.
3. Press the trigger for 1 second to activate the scanner.
4. Scan the [HID] barcode below:



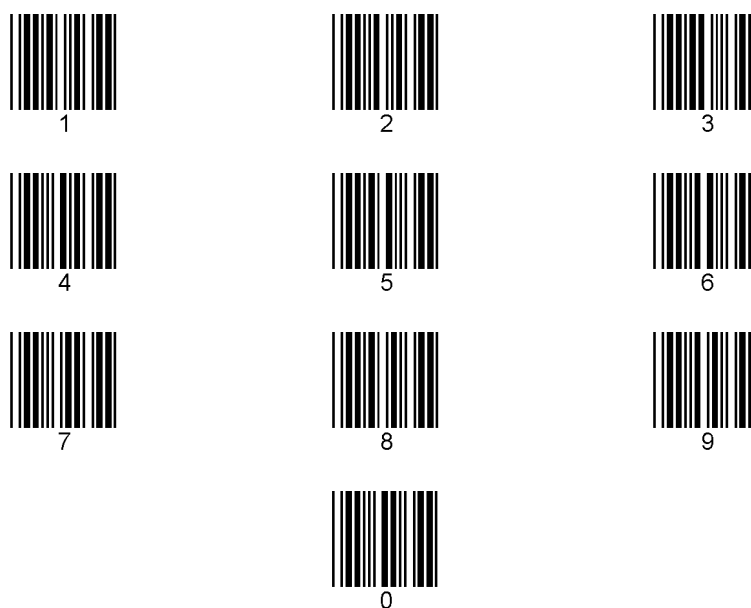
5. The scanner will emit 8 beeps.
6. Conduct a search for the MS910 on your host PC. Select “Wireless Scanner” from discovered device list and the scanner will beep twice.
7. The wireless application may prompt you to scan a pincode it generated.

8. Enter pincode with your scanner by following the steps below:

a. Scan [PIN-Start] barcode:



b. Refer to the barcode table below, and scan the barcodes that correspond to the pin number you received in Step 6. For example, if your pin code is “241657”, scan [2] – [4] – [1] – [6] – [5] – [7] in sequential order:



c. After scanning all the barcodes in your pin code, scan the [Enter] barcode:



d. To complete verification of your pin code, scan the [Pincode-Stop] barcode:



9. The scanner will beep twice to verify a successful connection.

Note. To disconnect the scanner from the cradle/host PC or to switch the wireless profile from one to another, please scan the [Disconnect] barcode:



After scanning the [Disconnect] barcode, the MS910 will emit 3 beeps.

Smartphone Connection (Android)

1. Pair with the scanner via [SPP]; see topic “Connecting via Serial Port Profile (SPP) Mode”
2. Install Bluetooth Connect.apk, which is available on CD.
3. Enable [BluetoothConnect] in the Language & Keyboard setting window and choose [BluetoothConnect] as Input Method.
4. Click [Connect] and you will be able to connect the scanner.



Note: BluetoothConnect needs to be installed only when you have NO wireless input application on your Android device.

Power Management

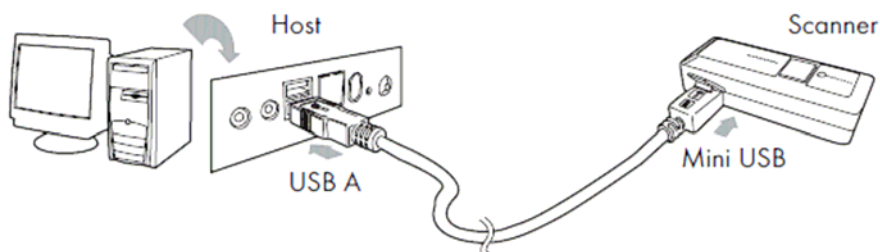
When not in use the scanner will enter idle mode to conserve battery power. Scan the appropriate barcode below to set the time it takes the scanner to enter idle mode after any scanning activity.



Scanner LED & Beeper Indication

Scanner LED & Beeper Indication					
		Green LED	Red LED	Beeper	Remark
Scanner	Power Off or Standby	-	-	-	See Power Off Timeout
	Charging	-	Solid	-	-
	Disconnected or Discoverable	Flash	-	-	-
	Initializing	Flash	Flash	1 long beep	-
	Power Up	-	-	1 long beep	-
	Barcode scanning w/o proper connection	Flash	-	1 beep	-
	Successful barcode scan	1 Flash	-	1 beep	-
	Successful Connection	-	-	2 beeps	-
	Unsuccessful Pincode Setup	-	Flash	3 short beeps	Scan [Pincode Stop] and retry
	Low Power	-	Flash	5 beeps	-

Charging the Battery



1. Flip open the mini USB port on the scanner.
2. Insert the mini USB connector into the port on the scanner and USB A connector into a USB port on the host PC.
3. Please charge the scanner for at least 2 hours (until the LED indicator turns off).

Specification

MS910	
Performance/Optical	
Image Sensor	Linear CMOS sensor
Light Source	625nm Visible Red LED
Max. Resolution	5 mil
Scan Rate	240 scans/second
Skew Angle	20°
Pitch Angle	30°
Printing Contrast Scale	30%
Depth of Field	
Reading Distance	Readable at 5 mil Code 39 30-140mm / 1.2 - 5.5 in (13mil EAN) 35-185mm / 1.4 – 7.3 in (15.6mil EAN)
Width of Field	Code 39: 200mm / 7.8 in / PCS=90% (40 mil)
Operation Mode	Trigger Mode / Flash Mode / Continuous Mode
Decoder	
Symbologies	UPC-A/UPC/E, EAN-8/EAN-13, Industrial 2 of 5, Codabar, Matrix 2 of 5, Code 11, Code 93, Code 32, Code 128, Standard Code 39, Full ASCII Code 39, Interleaved 2 of 5, China Postal Code, MSI Plessey Code, RSS Code, UK Plessey Code, EAN/UCC 128, GS1 Code, and Telepen Code
Electrical	
Battery Type	Lithium-Ion
Battery Capacity	350mAh
Battery Charging Time	2 hours
Operating Time	8 hours (1 scan/5 seconds)
Environmental	
Operating Temperature	0°C to 50°C / 32°F to 122°F

Storage Temperature	-20°C to 60°C / -4°F to 140°F
Relative Humidity	20% to 85% (non-condensing)
ESD Protection	4kv contact / 8kv air
IP ranking	IP41
Mechanical Shock	1.5m / 4ft onto concrete
Communication	
Radio Frequency	2.4GHz Wireless, Class 2
Interface Supported	HID & SPP
Range	10m / 33ft
Physical Characteristics (Scanner)	
Dimensions	L160 x W69 x H88mm / 6.3 x 2.7 x 3.4in
Weight	160g / 5.6oz
Physical Characteristics (Cradle)	
Dimensions	L65.6xW24.2xH16.9 mm/ 2.6 x 1.0 x 0.7in
Weight	110g / 3.9oz
Power	3.7VDC
Regulatory Approvals	
FCC Class B, CE	
Accessory	
Mini USB cable, Hand Strap, Tools CD	

User Preferences

Setup Procedures

This chapter describes the user-configurable settings for the MS910 and provides the programming bar codes for selecting these features for the scanner. To configure your MS910 scanner:

1. Locate the appropriate feature setting listed in the following pages.
2. Set feature values by scanning single barcodes or short barcode sequences.
3. The MS910 will beep to confirm a successful scan and will store the new setting in the scanner's memory.

Min. Length / Max. Length

Step 1: Scan MIN LENGTH or MAX LENGTH.

Step 2: Scan two digits from Full ASCII Chart of Appendix A.

Step 3: Scan MIN LENGTH or MAX LENGTH.

NOTES:

1. If the scanner beeps three times, it is an alert that a setting update is incomplete.
2. If you make a mistake in attempting to update a scanner setting, such as accidentally scanning the wrong barcode or forgetting a step, scan the [Reset] barcode below to start the process over.

Reset



3. If you want to restore the scanner back to factory settings, please scan the [Default] barcode below.

Default



Bar Code Length Setting

The following examples illustrate how to set up Code 39 with a minimum length of 5 and a maximum length of 20, respectively.

- Minimum length of 5
1. Go To "Group 4".
 2. Scan "MIN LENGTH" to enter minimum length setting.
 3. Scan "0 " and "5" to select length S. (Full ASCII Chart of Appendix A)
 4. Scan "MIN LENGTH" to end minimum length setting.

- Maximum length of 20
- 1. Go To "Group 4"
- 2. Scan "MAX LENGTH" to enter maximum length setting.
- 3. Scan "2" and "0" to select length 20. (Full ASCII Chart of Appendix A)
- 4. Scan "MAX LENGTH" to end maximum Length Setting.

Code ID Setting

Each bar code symbology supported by the scanner has a default ID character defined as below:



CODE ID IDENTIFIER

SYMBOLOGES	Factory ID	SYMBOLOGES ID	Factory ID
MSI	O	CODABAR	N
EAN 8	S	UKPLESSY	P
UPC -E	E	FULL ASCII Code 39	D
UPC -A	A	STANDARD Code 39	M
EAN 13	F	IATA 2of5	R
Code 93	L	INTERLEAVED 2 of 5	I
Code 11	J	INDUSTRIAL 2 of S (Code 2 of 5)	V
TELEPEN	U		
EAN 128	T	China Post Code	H
Code 128	K	Code 32	B

Preamble (prefix) and Postamble (Surffix):

PREAMBLE & POSTAMBLE (PREFIX AND SUFFIX)

Clear Preamble Postamble



Preamble(16)



Postamble(16)



EXAMPLE:

Set PREAMBLE String as "##"
 POSTAMBLE String as " \$\$ "

SETTING PROCEDURE:

- STEP 1: Scan: PREAMBLE.
- STEP 2: Scan: " # " twice from Full ASCII Chart of Appendix A.
- STEP 3: Scan: PREAMBLE.
- STEP 4: Scan: POSTAMBLE.
- STEP 5: Scan: " \$" twice from Full ASCII Chart of Appendix A.
- STEP 6: Scan: POSTAMBLE.

FORMAT:

{Preamble} {Code ID}{Bar Code }{Postamble}

NOTES:

1. A PREAMBLE is a string of up to 16 characters added to the beginning of a scanned barcode.
2. A POSTAMBLE is a string of up to 16 characters added to the end of a scanned bar code.
3. Default value for either: None.

Quick Setup

Appendix A has a quick setup chart, which gives you one label or one function for quick customization of the scanner. To set up the scanner, locate the label with the function you want and scan that label.

Batch Setup

If you need to configure more than one scanner, you can duplicate the settings of one scanner (master) and quickly deploy these settings to the others. You can do this by producing a set of custom setup labels derived from the master scanner. Then simply scan these labels to configure the other scanners.

The following label is called the “Dump Settings” label. Before you scan the label, please open a text editor application (such as Notepad or Microsoft Word) on the host PC. When you scan the [Dump Settings] barcode, the settings of the scanner will appear within the text editor application as one or several ASCII string(s). Use any barcode printing software, select the Code 39 symbology, and use the string(s) to generate bar code labels. Use the batch setup labels to duplicate these settings to the other scanners.

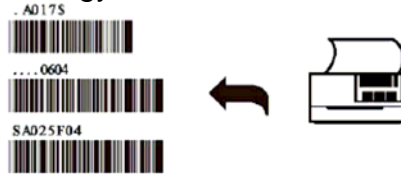


EXAMPLE:

1. PROJECT ASSIGNMENTS:
 - 1.1 Beep tune: BEEP LOW -- HIGH
 - 1.2 Caps Lock Mode: CAPSLOCK ON (FIXED).
 - 1.3 Reading Mode: CONTINUOUS AUTO OFF.
2. SETTING PROCEDURE:
 - 1.1 Scan BEEP LOW – HIGH. (GROUP 3).
 - 1.2 Scan CAPSLOCK ON (FIXED). (GROUP 3)
 - 1.3 Scan CONTINUOUS AUTO OFF. (GROUP 2)
3. All parameters will be converted to alphanumeric characters and shown on the monitor.



4. Print the results shown on the monitor as bar codes with a bar code printer. The bar codes should be in the Code 39 symbology.

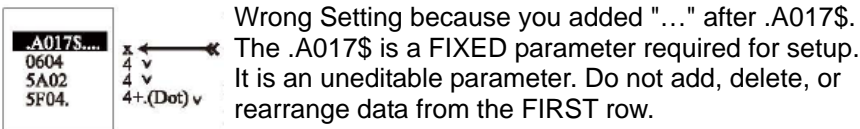
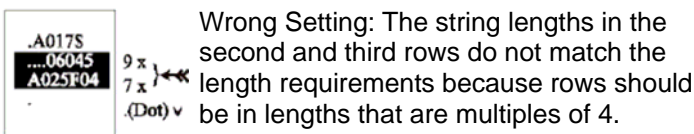
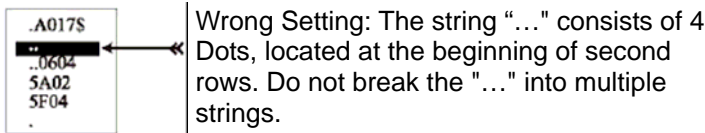


5. Scan these labels with any of the scanners you wish to configure similarly to the master. Be sure to scan from the first row to the second row and so on sequentially, top to bottom.

CORRECT SETTING



WRONG SETTING



- ✧ Only the settings that are different from the default values will be dumped.
- ✧ The settings can be dumped to either a PC or terminal, if the Device Types of the PC or terminal match that of the scanner. The previous example of "Keyboardless Wedge" as Device Type is equivalent to a PC/AT interface, so you cannot dump the scanner settings to a system that does not support a PC/AT keyboard interface. The following label dumps the settings to a PC/AT regardless of the type of device that has been chosen on the scanner.

Dump Settings on PC_AT



- ✧ You can adjust the length of the dumped strings by combining multiple strings into one or breaking one string into multiple strings. The following strings have the same effect as the dumped string listed above:

```
... I800C06D51DJ8080  
80A007C005354415254.
```

You cannot delete any character from or add any character to the strings and the first three characters ("...") must be present in the first string.

- ✧ All characters in dumped strings are uppercase. If you see lowercase characters in dumped strings, change them to uppercase.

Examples

Quick Setup Sheet

scanner Mode



Trigger



Flash



CONTINUOUS MODE



CONTINUOUS AUTO OFF



UPC-E



Cut Leading Digit



Send Check Digit



UPC-A Conversion

Beep



None



Medium



Terminator



Enter



Scan Code



U.S.



Alt Key



Beeps and Delays Group 1

Interblock Delay

Beep Tone

.F019\$



BEEP HIGH

.F018\$



BEEP MEDIUM

.F022\$



BEEP LOW

.F012\$



BEEP OFF

.B001\$



0 ms

.B002\$



10 ms

.B003\$



50 ms

.B004\$



100 ms

.B005\$



200 ms

.B006\$



500 ms

Intercharacter Delay

.B010\$



140 uS

.B011\$



500 uS

.B012\$



1 mS

.B013\$



4 mS

.B014\$



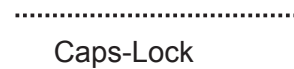
16 mS

Keyboard Wedge Settings Group 2

Language(For PC/XT,AT)



Function Code



.....

Use number keypad digits



Scanner Port: Group 3

Terminator



Code ID



Label Type



Scanning Mode



Data Length (Two Dgths) Send



Preamble /postamble



Scan 'PP'OO' for
Pre/Postamble. Scan characters
from Full ASCII char or
Function

Define Code ID Group 3

Define Code ID

.P008\$



Full ASCII Code 39 Set ID

.P005\$



CODE 39 Set ID

.P001\$



EAN 13 Set ID

.P004\$



UPC A Set ID

.P002\$



EAN 8 Set ID

.P003\$



UPC E Set ID

.P006\$



Interleaved 2 of 5 Set ID

.P007\$



Codabar Set ID

.P010\$



Code 128 Set ID

.P013\$



Code 93 Set ID

.P021\$



Standard 2 of 5 Set ID

.P014\$



MSI Code Set ID

.P016\$



EAN 128 Set ID

.P011\$



Code 32 Set ID (Italian hamacy)

.P015\$



UK Plessey Set ID

.P009\$



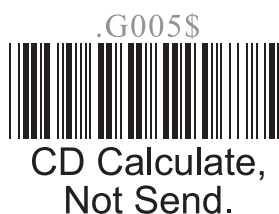
Code 11 Set ID(Special)

.P012\$



China Post code
(Toshiba Code)
Set ID

Code 39 / Full ASCII Code Group 4



I 2of5 Group 5

I 2of5 (ITF)

.J002\$



Disable

.J004\$



Check Digit (CD)
Calculate & Send

.J003\$



CD not Calculate

.J009\$



Last Digit
Suppressed

.J006\$



Min Length (6)

.J001\$



Enable

.J005\$



CD Calculate,
not send

.J008\$



First Digit
Suppressed

.J014\$



Not Suppressed

.J007\$



Max Length (48)

S 2of5 / Code 32 Group 6

S 2of5 / China Postal
Code (Toshiba Code)

.K002\$



Disable

.K001\$



Enable

.K004\$



Check Digit(CD)
Calculate & Send

.K005\$



CD Calculate,
not send

.K003\$



CD not Calculate

.K006\$



Min Length (11)

.K007\$



Max Length (48)

Code 32
(Italian Pharmacy)

.K011\$



Disable

.K010\$



Enable

.K012\$



Leading Character Send

.K013\$



Leading Character
No Send

.K014\$



Tailing Character Send

.K015\$



Tailing Character
No Send

EAN 128 Group 7

Telepen

.L015\$



Disable

.L014\$



Enable

.L020\$



Standard

.L021\$



Numeric set

Define the EAN 128
Fields Separator

.M007\$



**Define the EAN 128
Fields separator**

Scan a ASCII code in full
ASCII code chart to select a
new fields separator

UCC / EAN 128

.M002\$



Disable

.M001\$



Enable

.M004\$



Code ID Disable

.M003\$



Code ID Enable

Note: If EAN 128 be disabled,
the EAN 128 labels will be
decoded as Code 128

Code 128/ Code 93 / MSI Code Group 8

Code 128

.J011\$



Disable

.J010\$



Enable

.J012\$



Min Length (5)

.J013\$



Max Length (48)

Code 93

.G011\$



Disable

.G010\$



Enable

.G012\$



Min Length (6)

.G013\$



Max Length 48

MSI / Plessey Code

.L002\$



Disable

.L001\$



Enable

.L004\$



Check Digit Send

.L003\$



Check Digit No Send

.L007\$



Check Digit Double
Module 10

.L008\$



Check Digit Module
11 plus 10

.L009\$



**Check Digit Single
Module 10**

.L005\$



Min Length (6)

.L006\$



Max Length (48)

SETTING PROCEDURE

MIN / MAX LENGTH

STEP 1 - Scan: MIN LENGTH/ MAX LENGTH

STEP 2 - Scan : Two digits from Appendix .

STEP 3 - Scan: MIN LENGTH / MAX LENGTH

Please note that when Min Length and / or Max Length are enabled, the scanner will only read bar codes that fall into those length parameters. Bar codes shorter or longer than specified will not be read. The default lengths for these are indicated in parentheses under the Min and Max bar codes for each symbology.



0



3



7



1



4



8



2



5



9



6

27

Code 11 / Codabar Group 9

Code 11

<p>.I011\$ <u>Disable</u></p> <p>.I010\$ Enable</p> <p>.I042\$ One Check Digit</p> <p>.I043\$ Two Check Digit</p>	<p>.I013\$ Check Send</p> <p>.I014\$ No Send</p> <p>.I015\$ Min Length (6)</p> <p>.I016\$ Max Length (48)</p>	<p>.I003\$ Start & Stop Send</p> <p>.I004\$ Start & Stop No Send</p> <p>.I006\$ Check Digit Calculate & Send</p> <p>.I007\$ Check Digit Calculate but not Send</p> <p>.I005\$ <u>Check Digit</u> <u>Not Calculate</u></p>	<p>.I027\$ CLSI Format On</p> <p>.I028\$ CLSI Format Off</p> <p>.I008\$ Min Length (6)</p> <p>.I009\$ Max Length 48</p>
<p>Codabar</p> <p>.I002\$ Disable</p> <p>.I001\$ <u>Enable</u></p>			

UPC / EAN Code Group 10

UPC-A



Disable



Enable



Leading Digit Send



Leading Digit No Send



Check Digit Send



Check Digit No Send

UPC-E



Disable



Enable



Leading Digit Send



Leading Digit No Send



Check Digit Send



Check Digit No Send



Zero Expansion On



Zero Expansion Off



Disable NSC=1



Enable NSC=1

UPC / EAN Code Group 11

EAN-13

.H014\$



Disable

.H013\$



Enable

.H015\$



Leading Digit Send

.H016\$



Leading Digit No Send

.H017\$



Check Digit Send

.H018\$



Check Digit No Send

.H049\$



ISBN Enable

.H050\$



ISBN Disable

EAN-8

.H020\$



Disable

.H019\$



Enable

.H021\$



Leading Digit Send

.H022\$



Leading Digit No Send

.H023\$



Check Digit Send

.H024\$



Check Digit No Send

Supplement Code Group 12

Supplement
Code

.H028\$



Two Supplement
Code Off

.H026\$



Five Supplement
Code Off

.H057\$



Transmitted if Present

.H041\$



Space Separator
Inserted

.H027\$



Two Supplement
Code On

.H025\$



Five Supplement
Code On

.H058\$



Must Present

.H042\$



Space Separator
Not Inserted

MATRIX 2 Of 5 Group 13

. M0 1 0 \$



ENABLE

. M0 1 1 \$



DISABLE

. M0 1 2 \$



DISABLE CDV

. M0 1 3 \$



CDV & SEND CD

. M0 1 4 \$



CDV & NOT SEND CD

. M0 1 5 \$



MIN LENGTH (6)

. M0 1 6 \$



MAX LENGTH (48)

IATA Group 14



UK PLESSY CODE GROUP - 15



Full ASCII Chart

(Characters in parentheses represent Code 39 bar code printing)



NUL(%U)



DLE(\$P)



BS(\$H)



ETB(\$W)



SOH(\$A)



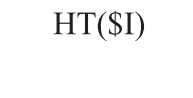
DC1(\$Q)



CAN(\$X)



STX(\$B)



HT(\$I)



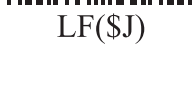
DC2(\$R)



EM(\$Y)



ETX(\$C)



LF(\$J)



DC3(%S)



SUB(%Z)



EOT(\$D)



VT(\$K)



DC4(\$T)



ESC(%A)



ENQ(\$E)



FF(\$L)



NAK(\$U)



FS(%B)



ACK(\$F)



CR(\$M)



SYN(\$V)



BEL(\$G)



SO(\$N)



GS(%C)



SI(\$O)



RS(%D)



US(%E)



SP



!(/A)



”(/B)



#(/C)



\$



%



&(/F)



’(/G)



((/H)



) (/I)



*/(J)



+



,(/L)



-



.



/



0



1



2



3



4



5



6



7



8



9



: (/Z)



; (%F)



< (%G)



= (%H)



> (%I)



? (%J)



@ (%V)



A



B



C



D



E



F



G



H



I



\(%W)



a(+A)



b(+B)



c(+C)



d(+D)



e(+E)



f(+F)



g(+G)



h(+H)



i(+I)



j(+J)



k(+K)



l(+L)



m(+M)



n(+N)



o(+O)



p(+P)



q(+Q)



r(+R)



s(+S)



t(+T)



u(+U)



v(+V)



w(+W)



x(+X)



y(+Y)



z(+Z)



{ (%P)



| (%Q)



} (%R)



~ (%S)



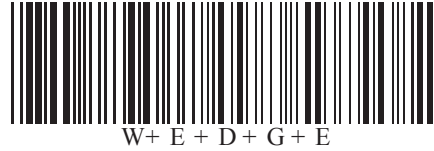
DEL(%T)

Barcode Chart

EAN-13



Code 39



EAN-8



Code 39 with C/D



UPC-A



EAN 128



UPC-E



Code 128



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Codabar



Interleaved 2 of 5



MSI Code



Worldwide Support

Unitech's professional support team is available to quickly answer questions or technical-related issues. Should an equipment problem occur, please contact the nearest Unitech regional service representative. For complete contact information please visit the Web sites listed below:

Region	Web Site
Global Operation Center	http://www.ute.com
Unitech Taiwan	http://tw.ute.com
Unitech Asia Pacific & Middle East	http://apac.ute.com ; http://india.ute.com
Greater China Division	http://cn.ute.com
Unitech Japan	http://jp.ute.com
Unitech America	http://us.ute.com ; http://can.ute.com
Unitech Latin America	http://latin.ute.com
Unitech Europe	http://eu.ute.com