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Wireless Scanner

- MS380 -

User's Manual

Version 1.9

Unitech electronics co., ltd.
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Chapter 1

Overview

Introducing the MS380

The MS380 scanner combines precision barcode scanning and integrated long-range Bluetooth technology to provide the best value in a wireless handheld scanner. Featuring advanced ergonomics, the MS380 scanner ensures comfort and ease-of-use for both moderate and scan intensive applications.

The MS380 includes a charging cradle with integrated wireless dongle, so you can enjoy the benefits of cordless scanning even if your host PC is not Bluetooth compatible. The MS380 also features excellent battery life for extended device uptime and scanning performance.

Enjoy the benefits of accelerated productivity, lower cost of ownership, and freedom of movement. The MS380 is a multipurpose scanner from a partner you can trust.
Thank you for choosing Unitech products.

Application:

- ✓ Warehouse
- ✓ Pharmacy
- ✓ Logistics
- ✓ Retail
- ✓ Point of Sale (POS)
- ✓ Inventory Management
- ✓ Distribution & Transportation

※ ***SCM does NOT support the MS380B.***

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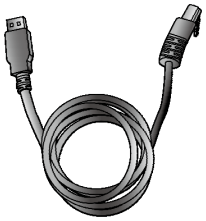
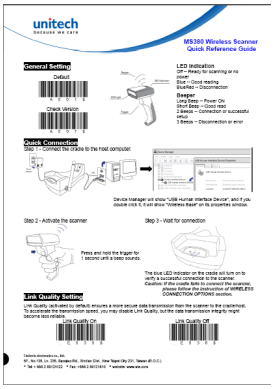
Package Contents

Please make sure the following contents are in the MS380 box. If something is missing or damaged, please contact your Unitech representative.

		
MS380 scanner	Power Adapter	USB Interface Cable
		
Charging / Communication Cradle	Quickly Reference Guide	

Note:

1. Environmental temperature for charging should be within 0ºC – 40ºC (32ºF – 104ºF).
2. This device uses one cradle with only one host.
3. The scanner's default power off (idle mode) time is 3 minutes.
4. Please charge scanner for 4 hours prior to initial use.

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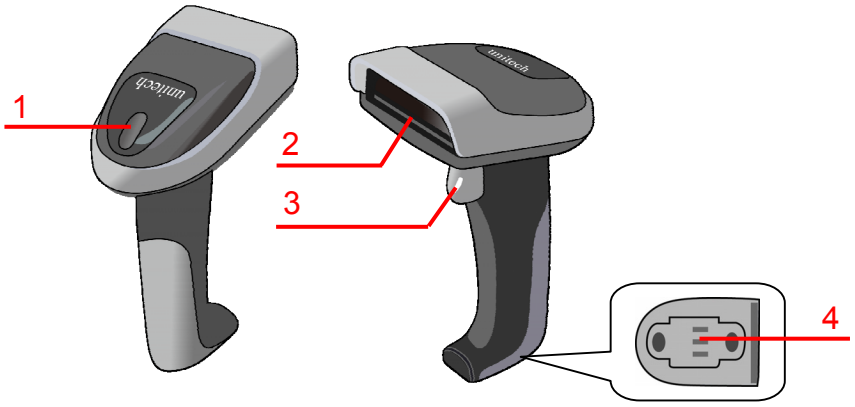
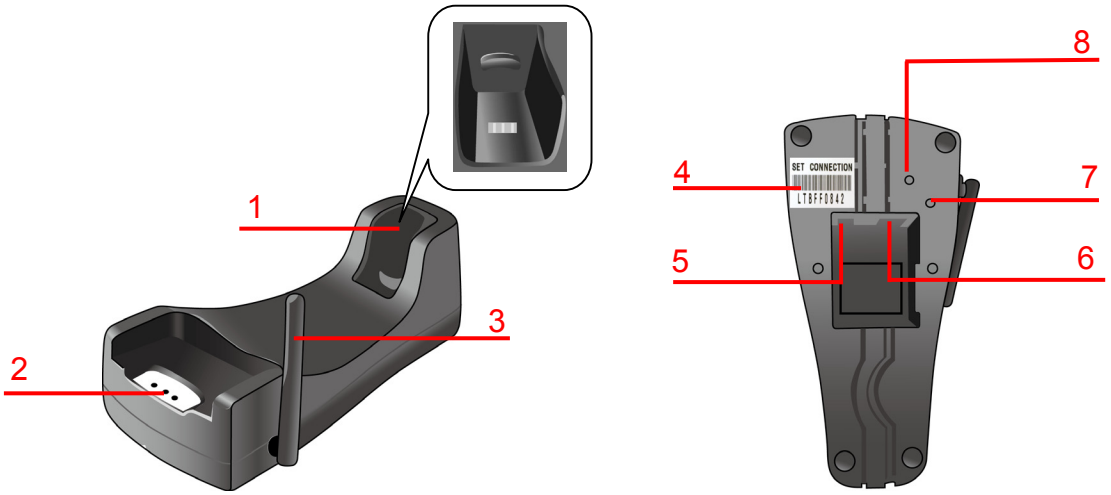
[Scanner Detail]



1	LED Indicator	3	Scan Trigger
2	LED Lights (Scan Window)	4	Charging / Communication Contacts

[Cradle Detail]



1	Charging / Communication Contacts	5	Power Port
2	Power / Wireless /Charging LED Indicator	6	USB Port
3	Antenna	7	Cradle Reset Pinhole
4	Host Address	8	USB Release Pinhole

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Chapter 2

Installation and Connection

Connecting (Pairing) the Scanner to the Cradle

Wireless mode – HID Plug & Play (Default)

Most users will wish to use the scanner by connecting it wirelessly directly to the cradle. By default, the scanner is set up to perform this way. If you wish to pair the scanner directly to another Bluetooth-enabled device, you may do so by following the steps in another section. Follow these steps to connect the scanner directly to the cradle, and then from the cradle's USB cable to the USB port of the Host PC.

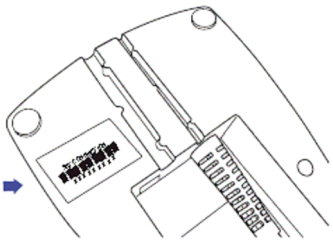
1. Connect the power supply to the cradle's power port.
2. Plug the power adapter into an electrical outlet.
3. Turn on the host PC.
4. Insert the USB cable firmly into the cradle's USB port until it clicks.
5. Connect the other end of the USB cable firmly to the host PC until it clicks.
6. Scan the [HID Plug & Play] barcode below:

HID Plug & Play

. E 0 4 1 $

7. The scanner will emit 8 beeps.
8. Pair the scanner to the cradle by scanning the host address barcode on the bottom of the cradle.

The host address barcode is on the bottom of the cradle. ➡



9. The scanner will emit 2 beeps and the cradle's blue LED indicator will illuminate to verify a successful connection.

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Connecting (Pairing) the Scanner to a Host PC

If your host PC or Smart Phone is Bluetooth-enabled technology compatible, then you could use it; the MS380 supports both HID and SPP wireless profiles. If you are connecting it to a mobile smart phone, you will need to use the steps in “Connecting via Human Interface Device (HID) Mode”.

Connecting via Serial Port Profile (SPP) Mode

1. Turn on your host PC.
2. Connect the cradle to your host PC, by inserting the USB cable firmly until it clicks, if it doesn’t have a built-in wireless adaptor. If your computer already has one, please turn on the adaptor (Bluetooth Switch)
3. Use the MS380 to scan the [SPP] barcode.

SPP

4. The scanner will emit 8 beeps.
5. Conduct a search for the MS380 on your host PC. When your host PC locates the “Wireless Scanner” device, select it.
6. Depending upon your version of the Windows operating system, you may receive a prompt to enter a paring code/PIN. The default code is “1234”.

Connecting via Human Interface Device (HID) Mode

1. Turn on your host PC.
2. Verify that Bluetooth-enabled communication is active on the host PC.
3. Use the MS380 to scan the [HID] barcode shown below:

HID

4. The scanner will emit 8 beeps.
5. Conduct a search for the MS380 on your host PC. When your host PC locates the “Wireless Scanner” device, select it.
6. Next, you will receive a pin code from the host PC and will be instructed to input the pin code by scanning the barcodes below. Begin by scanning the [PIN-Start] barcode:

PIN-Start

7. 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:

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1


2


3


4


5


6


7


8


9


0

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

Enter


* $ T X *

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

Pincode-Stop


. E 0 3 3 $

10. 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, first scan the [Disconnect] barcode:

Disconnect


. E 0 3 1 $

After scanning the [Disconnect] barcode, the MS380 will emit 3 beeps.

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.

1 Minute


.B017$

3 Minute (Default)


.B018$

Idle Mode Disable


.B021$

5 Minute


.B019$

10 Minute


.B020$

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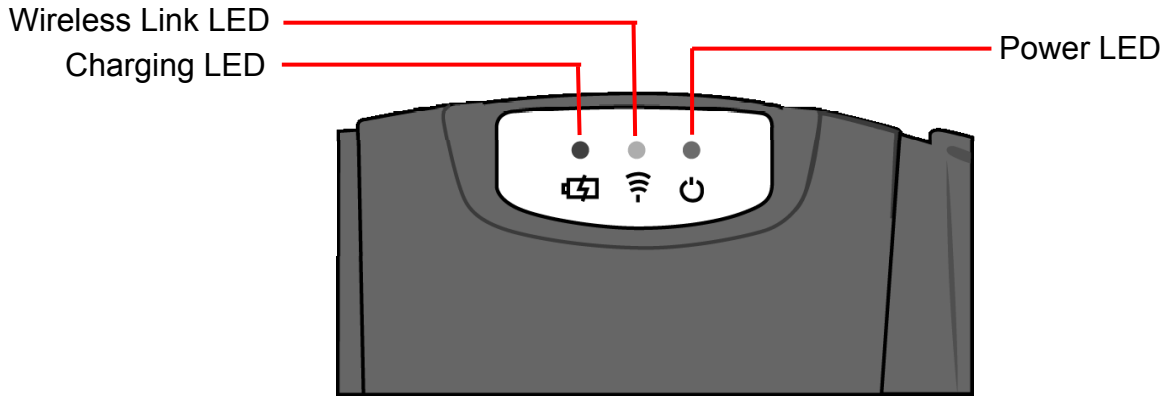
Scanner LED & Beeper Indication

Scanner LED & Beeper Indication						
		Blue LED	Red LED	Blue + Red LED	Beeper	Remark
Scanner	Initializing	-	-	Alternating between a red blink and then a blue blink	Long beep 1 time	
	Connection complete	-	-	-	2 beeps 1 time	-
	No connection	-	-	Alternating between a red blink and then a blue blink	3 beeps 1 time	
	Barcode scanning without proper connection	-	-	-	3 short beeps	
	Successful barcode scan	Flash 1 time	-	-	Beep 1 time	-
	Low power	-	Flash	-	5 short beeps each time for 1 min	Power off after 1 min. or electricity exhaust
	Power off	-	-	-	-	Scan barcode setting for 1 min./ 3 min. / 5 min. / 10 min.
Cradle	Charging	Flash	-	-	-	-
	Full charge	On	-	-	-	4 hours spent for full battery charge

LED Lamp Indication



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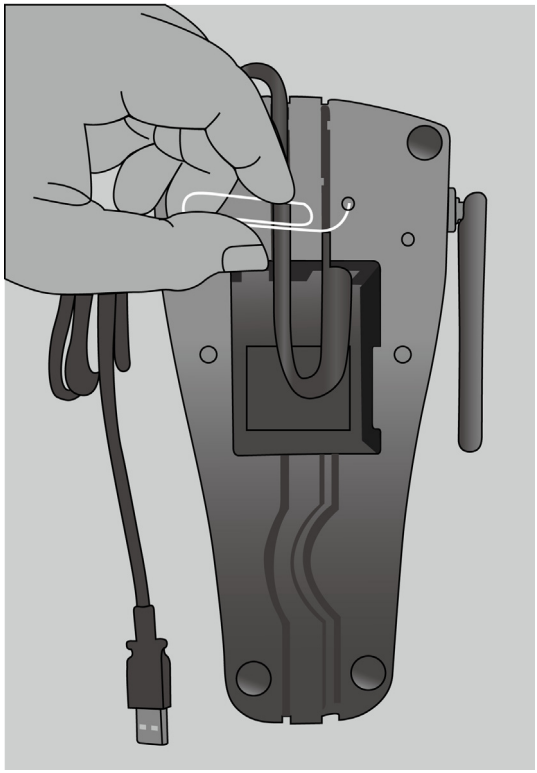
Detach the Interface Cable



Insert a pin or the straight end of a paper clip into the USB Release Pinhole and push down to disengage the cable connection. Continue pressing downward on the pin / paper clip while pulling the cable out of the USB port with your other hand.

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Chapter 3

Specification

MS380	
Performance/Optical	
Image Sensor	2048 pixel CCD (Charge-coupled device)
Light Source	660nm Visible Red LED
Max. Resolution	4 mil
Scan Rate	200 scans/second
Skew Angle	60º
Pitch Angle	60º
Printing Contrast Scale	60%
Depth of Field	
Reading Distance	75 - 85mm / 2.9 - 3.3 in (4 mil Code 39) 70 - 115mm / 2.7 - 4.5 in (5 mil Code 39) 40-300mm / 1.5 - 11.8 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 Plessy Code, RSS Code, UK Plessy Code, EAN/UCC 128,GS1 Code, and Telepen Code
Electrical	
Battery Type	Lithium-Ion
Battery Capacity	1620mAh
Battery Charging Time	4 hours
Operating Time	8 hours (1 scan/5 seconds)

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Environmental	
Operating Temperature	0°C to 50°C / 32ºF to 122ºF
Storage Temperature	-10°C to 60°C / 14ºF to 140ºF
Relative Humidity	20% to 85% (non-condensing)
ESD Protection	4kv contact / 8kv air
IP ranking	IP43
Mechanical Shock	1.2m / 4ft onto concrete
Communication	
Radio Frequency	2.4GHz Wireless, Class 1
Interface Supported	USB (HID)
Range	100m / 300ft
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	L202 x W111 x H70mm / 7.9 x 4.3 x 2.7in
Weight	170g / 5.9oz
Power	3.45VDC
Regulatory Approvals	
FCC Class B, CE, BSMI	
Accessory	
Adapter, USB cable	

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Chapter 4

User Preferences

Setup Procedures

This chapter describes the user-configurable settings for the MS380 and provides the programming bar codes for selecting these features for the scanner. To configure your MS380 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 MS380 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.

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- 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:

Factory ID ON

Disable Code ID

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.

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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.

Dump Settings

. A 0 1 6 $

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.

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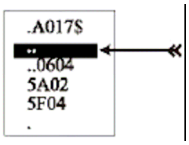
4. Print the results shown on the monitor as bar codes with a bar code printer. The bar codes should be in the Code 39 symbology.

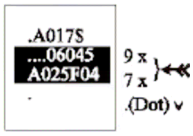
5. Scan these labels with any of the scanners you wish to configure similarly to the master. Be sure to scan from the first row to the second row and so on sequentially, top to bottom.

CORRECT SETTING

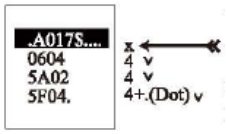
WRONG SETTING



Wrong Setting: The string "…" consists of 4 Dots, located at the beginning of second rows. Do not break the "…" into multiple strings.



Wrong Setting: The string lengths in the second and third rows do not match the length requirements because rows should be in lengths that are multiples of 4.



Wrong Setting because you added "…" after .A017$. The .A017$ is a FIXED parameter required for setup. It is an uneditable parameter. Do not add, delete, or rearrange data from the FIRST row.

- ✧ 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

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- ✧ 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
  80A0O7C005354415254.

  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.

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Appendix A

Examples

Quick Setup Sheet

scanner Mode

.F002$

Trigger

.F001$

Flash

.F005$

CONTINUOUS MODE

.F006$

CONTINUOUS AUTO OFF

UPC-E

.H010$

Cut Leading Digit

.H011$

Send Check Digit

.H053$

UPC-A Conversion

Beep

.F012$

None

.F018$

Medium

Scan Code

.C010$

U.S.

.C015$

Alt Key

Terminator

.D010$

NONE

.D011$

LF

.D012$

CR

.D013$

CR+LF

.D014$

TAB

.D015$

SPACE

.D016$

ESC

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Cursor Right

Back Tab

Cursor Left

Esc

Cursor Up

Enter

Cursor Down

BS

Page Up

Ins

Page Down

Del

Tab

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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

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Keyboard Wedge Settings Group 2

Language(For PC/XT,AT)

.C010$

USA

.C018$

UK

.C016$

Swiss

.C013$

Spanish

.C014$

Italian

.C011$

German

.C012$

French

.C015$

Alt Key Mode

.C009$

Japanese(106 key)

.C021$

HUNGARIAN

.C017$

CZECHCQWERTY

.C022$

CZECH

Function Code

.C020$

Off

.C019$

ON

Caps-Lock

.A006$

Auto Trace(PC/XT, AT)

.A005$

Lower Case

.A004$

Upper Case

Use number keypad digits

.D018$

Disable

.D017$

Enable

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Scanner Port: Group 3

Terminator

.D013$

CR+LF

.D012$

Return
(on digits keypad)

.D010$

None

Code ID

.A009$

0-disable

.A015$

Enable

Label Type

D021$

0-Positive

D022$

1-Positive and Negative

Scanning Mode

.F001$

Flashing wait 10 Sec

.F002$

Trigger

.F003$

One Press One Scan

.F004$

Test Mode

.F005$

Continuous

.F006$

Multiscan

.A001$

Default

.A002$

Enable All Code

.A003$

Disable All Code

.A004$

Caplock On

.A005$

Caplock Off

.A006$

Caplock Auto

.A007$

Check Version

.A008$

Factory ID On

.A009$

Disable Code ID

.A010$

Double Verification

Data Length
(Two Dghts) Send

.D020$

Disable

.D019$

Enable

Preamble /postamble

.A012$

Preamble

.A013$

Postamble

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

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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

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Code 39 / Full ASCII Code Group 4

.G009$

Disable

.G008$

Enable

.G001$

Full ASCII Code 39 Enable

.G002$

Full ASCII Code 39 Disable

.G004$

Check Digit(CD) Calculate & Send

.G005$

CD Calculate, Not Send.

.G003$

CD not Calculate

.G014$

Send

.G015$

No Send

.G017$

Double labels decoding off

.G006$

Min Length (1)

.G018$

DL Separator for Double Code 39

.K007$

Max Length (48)

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I 2of5 Group 5

I 2of5 (ITF)

.J002$

Disable

.J001$

Enable

.J004$

Check Digit (CD)
Calculae & Send

.G005$

CD Calculate,
Not Send.

.G003$

CD not Calculate

.J008$

First Digit
Suppressed

.J009$

Last Digit
Suppressed

.J014$

Not Suppressed

.J006$

Min Length (6)

.J007$

Max Length (48)

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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

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EAN 128 Group 7

Telepen

.L015$

Disable

.L014$

Enable

.L020$

Standard

.L021$

Numeric set

Define the EAN 128
Fields Separtor

.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

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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)

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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.

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Code 11 / Codabar Group 9

Code 11

.I011$

Disable

.I010$

Enable

.I042$

One Check Digit

.I043$

Two Check Digit

.I013$

Check Send

.I014$

No Send

.I015$

Min Length (6)

.I016$

Max Length (48)

.I003$

Start & Stop Send

.I004$

Start & Stop No Send

.I006$

Check Digit Calculate & Send

.I007$

Check Digit Calculate but not Send

.I005$

Check Digit Not Calculate

.I027$

CLSI Format On

.I028$

CLSI Format Off

.I008$

Min Length (6)

.I009$

Max Length 48

Codabar

.I002$

Disable

.I001$

Enable

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UPC / EAN Code Group 10

UPC-A

.H002$

Disable

.H001$

Enable

.H003$

Leading Digit Send

.H004$

Leading Digit No Send

.H005$

Check Digit Send

.H006$

Check Digit No Send

UPC-E

.H008$

Disable

.H007$

Enable

.H009$

Leading Digit Send

.H010$

Leading Digit No Send

.H011$

Check Digit Send

.H012$

Check Digit No Send

.H053$

Zero Expansion On

.H054$

Zero Expansion Off

.H066$

Disable NSC=1

.H065$

Enable NSC=1

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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

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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

.M010$

ENABLE

.M011$

DISABLE

.M012$

DISABLE CDV

.M013$

CDV & SEND CD

.M014$

CDV & NOT SEND CD

.M015$

MIN LENGTH (6)

.M016$

MAX LENGTH (48)

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IATA Group 14

. N017$

ENABLE

. N018$

DISABLE

. N019$

DISABLE CDV

. N020$

CDV & SEND CD

. N021$

CDV & NOT SEND CDV

. N022$

MIN LENGTH (6)

. N023$

MAX LENGTH (48)

UK PLESSY CODE GROUP – 15

.L010$

ENABLE

.L011$

DISABLE

.L012$

CDV & SEND CD

.L013$

CDV & NOT SEND CD

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Full ASCII Chart

(Characters in parentheses represent Code 39 bar code printing)


NUL(%U)


BS($H)


DLE($P)


ETB($W)


SOH($A)


HT($I)


DC1($Q)


CAN($X)


STX($B)


LF($J)


DC2($R)


EM($Y)


ETX($C)


VT($K)


DC3(%S)


SUB(%Z)


EOT($D)


FF($L)


DC4($T)


ESC(%A)


ENQ($E)


CR($M)


NAK($U)


FS(%B)


ACK($F)


SO($N)


SYN($V)


GS(%C)


BEL($G)


SI($O)

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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

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`(%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)

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Function Codes for PC


F1


F2


F3


F4


F5


F6


F7


F8


F9


F10


F11


F12


Home


End


Cursor Right


Cursor Up


Page Up


Tab


Esc


BS


Del


Cursor Left


Cursor Down


Page Down


Back Tab


Enter

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Ins


Shift（Left） make *2


Shift (Right) make


Win (Left) make


Win (Right) make


Ctrl（Left） makek *3


Ctrl (Right) make


Alt（Left） make*1


Alt (Right) make


App


Shift（Left） break


Shift (Right) break


Win (Left) break


Win (Right) break


Alt（Left） break


Alt (Right) break


Enter（Numeric Key）


Ctrl（Left） braek


Ctrl (Right) break

For UK Keyboard Special Character


¬


£

Note:

*1 "Alt(left)Make" is programmed. Please scan "Alt(left)Break" to resume barcode setting.
*2. "Shift(left)Make" is programmed. Please scan "Shift(left)Break" to resume barcode setting.
*3. "Ctrl(left)Make" is programmed. Please scan "Ctrl(left)Break" to resume barcode setting.

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Barcode Chart

EAN-13

EAN-8

UPC-A

UPC-E

ISBN 957-630-239-0

Interleaved 2 of 5

Code 39

Code 39 with C/D

EAN 128

Code 128

Codabar

MSI Code

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Appendix B

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

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