

Programming Command Manual

FOR:

RT214, RT217, RT212, RT234, RT235, IDE237, RT240, RT242



Introduction

The serial programming commands can be used in place of the programming bar codes. Both the serial commands and the programming barcodes will program the scanner. For complete descriptions and examples of each serial programming command, refer to the corresponding programming bar code in this manual.

Chapter Description

Chapter 1, Programming Command

Introduces the serial programming and give some examples.

Chapter 2, Imaging Commands

Introduces the imaging commands and gives some setting examples.

Appendix

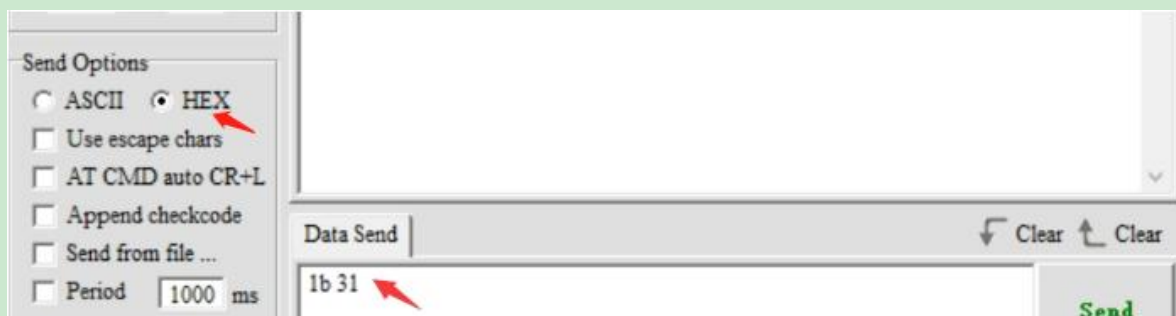
Provides the command table.

Quick Tips:

1. Generally, for self-service terminal embedded use, you would consider using the scanner via command trigger mode, by which the user clicks a "button" in the touch screen and active a decode session. Below is a quick guide for command trigger:

Command trigger mode:

For the USB virtual serial, TTL-232 or RS232 interface, we can active a decode session by sending a command to the scanner. Firstly, if the scanner comes with USB interface, scan the USB-CDC setting code to switch the scanner to virtual serial mode. Then scan the "Level Mode" code to set the scanner to level mode. Then connect the scanner to your software, send the command **1b 31** in hex (ensure in hex) , each time the 1B 31 command is sent, the scanner will be triggered once.



1. 1b 31 in hex is a quick command for Command trigger mode
2. 1b 32 in hex is a quick command for sense mode
3. 1b 33 in hex is a quick command for continues mode

Chapter 1 Programming Command

Command Syntax

Prefix Storage Tag SubTag {Data} [, SubTag {Data}] [; Tag SubTag {Data}] [...] ; Suffix

Among which, {data} means integrant while [data] means optional data.

Prefix: "~<SOH>0000" (HEX: 7E 01 30 30 30 30), 6 characters.

StorageType: "@" or "#", 1 character. "@" means permanent setting which will not be lost by removing power from the scanner or rebooting it; "#" means temporary setting which will be lost by removing power from the scanner or rebooting it.

Tag: A 3-character case-sensitive field that identifies the desired command group. For example, the Tag for the Enable Code 11 is C11 (see Example 1 of Chapter 1).

SubTag: A 3-character case-sensitive field that identifies the desired parameter within the tag group. For example, the SubTag for the Enable Code 11 is ENA (see Example 1 of Chapter 1).

Data: The value for a feature or parameter setting, identified by the Tag and SubTag. For example, the Data for the Enable Code 11 is 1 (see Example 1 of Chapter 1).

Suffix: "<ETX>" (HEX: 3B 03), 2 characters.

Query Commands

For query commands, the entry in the **Data** field in the syntax above is one of the following characters means:

* (HEX: 2A)	What is the scanner's current value for the setting(s).
& (HEX: 26)	What is the factory default value for the setting(s).
^ (HEX: 5E)	What is the range of possible values for the setting(s).

If {subtag} omitted, means enquiry of all configuration value under the {Tag}. For example, to query all the current settings about Code 11, you should enter **7E 01 30 30 30 30 40 43 31 31 2A 3B 03** (i.e. ~<SOH>0000@C11*;<ETX>).

If {Tag subtag} omitted, means enquiry of all configuration value of the device

Within “available value range”, “-” means continuous range, “|” means separated value. For example:

1|3-5|7|9-20 means all those 17 digits from 1 to 20 except for 2, 6, 8.

For those configuration items having both setup value range and preset value, we use “_” to separate setup value range and preset value, “|” to separate each preset value, and “:” to separate presetting name and preset value. For example: Good read beep frequency range:

GRBFRQ20-20000_Lowest:800|Low:1600|Medium:2730|High:4200;

Responses

Different from command sequence, the prefix of a response consists of the six characters of “<STX><SOH>0000” (HEX: **02 01 30 30 30 30**).

<ACK> (HEX: 06)	Indicates a good command which has been processed
<NAK> (HEX: 15)	Indicates a good configuration command with its Data field entry out of the allowable range for this Tag and SubTag combination
<ENQ> (HEX: 05)	Indicates an invalid Tag or SubTag command

When responding, the scanner echoes back the command sequence with the status character above inserted directly before each of the punctuation marks (the comma or semicolon) in the command.

Examples

Example 1: Enable Code 11, set minimum length as 12 and maximum length as 22



Enable Code 11

Tag: C11

SubTag: ENA

Data: 1



Set the Minimum Length (Default 4)

SubTag: MIN



Set the Maximum Length (Default 48)

SubTag: MAX

Sending:

HEX: 7E 01 30 30 30 30 40 43 31 31 45 4E 41 31 2C 4D 49 4E 31 32 2C 4D 41 58 32 32 3B 03

ASCII: ~<SOH>0000@C11ENA1,MIN12,MAX22;<ETX>

Response:

HEX: 02 01 30 30 30 30 40 43 31 31 45 4E 41 31 06 2C 4D 49 4E 31 32 06 2C 4D 41 58 32 32 06 3B 03

ASCII: <STX><SOH>0000@C11ENA1<ACK>,MIN12<ACK>,MAX22<ACK>;<ETX>

Example 2: enquire all configuration of CODE 128



** Enable Code 128

Tag:128

Sending:

HEX: 7E 01 30 30 30 30 40 31 32 38 2A 3B 03

ASCII: ~<SOH>0000@128*;<ETX>

Response:

HEX: 02 01 30 30 30 30 40 31 32 38 44 45 46 06 2C 45 4E 41 31 06 2C 4D 49 4E 35 06 2C 4D 41 58 38 30 06 2C 43 48
4B 31 06 2C 46 4E 43 06 2C 3B 03

ASCII: <STX><SOH>0000@128DEF<ACK>,ENA1<ACK>,MIN5<ACK>,MAX80<ACK>,CHK1<ACK>,FNC<ACK>;<ETX>

Example 3: set RS232 baud rate as 115200



115200

Sending:

HEX: 7E 01 30 30 30 30 40 32 33 32 42 41 44 38 3B 03

ASCII: ~<SOH> 0000@232BAD8;<ETX>

Response:

HEX: 02 01 30 30 30 30 40 32 33 32 42 41 44 38 06 3B 03

ASCII: <STX><SOH> 0000@232BAD8<ACK>;<ETX>

Example 4: set decode session timeout as 5000ms



Decode Session Timeout

Sending:

HEX: 7E 01 30 30 30 30 40 4F 52 54 53 45 54 35 30 30 30 3B 03

ASCII: ~<SOH>0000@ORTSET5000;<ETX>

Response:

HEX: 02 01 30 30 30 30 40 4F 52 54 53 45 54 35 30 30 30 06 3B 03

ASCII: <STX><SOH> 0000@ORTSET5000<ACK>;<ETX>

Example 5: set custom prefix as AB (HEX: 0x41 0x42)。



Set Custom Prefix

Sending:

HEX: 7E 01 30 30 30 30 40 43 50 52 53 45 54 34 31 34 32 3B 03

ASCII: ~<SOH>0000@CPRSET4142;<ETX>

Response:

HEX: 02 01 30 30 30 30 40 43 50 52 53 45 54 34 31 34 32 06 3B 03

ASCII: <STX><SOH>0000@CPRSET4142<ACK>;<ETX>

Example 6: start/stop scanning

1. Set device scanning mode as level trigger mode

Sending:

HEX: 7E 01 30 30 30 30 40 53 43 4E 4D 4F 44 30 3B 03

ASCII: ~<SOH>0000@SCNMOD0;<ETX>

Response:

HEX: 02 01 30 30 30 30 40 53 43 4E 4D 4F 44 30 06 3B 03

ASCII: <STX><SOH>0000@SCNMOD0<ACK>;<ETX>

2. To start scanning

Sending:

HEX: 7E 01 30 30 30 30 23 53 43 4E 54 52 47 31 3B 03

ASCII: ~<SOH>0000#SCNTRG1; <ETX>

Response:

HEX: 02 01 30 30 30 30 23 53 43 4E 54 52 47 31 06 3B 03

ASCII: <STX><SOH>0000#SCNTRG1<ACK>;<ETX>

3. To stop scanning

Sending:

HEX: 7E 01 30 30 30 30 23 53 43 4E 54 52 47 30 3B 03

ASCII: ~<SOH>0000#SCNTRG0; <ETX>

Response:

HEX: 02 01 30 30 30 30 23 53 43 4E 54 52 47 30 06 3B 03

ASCII: <STX><SOH>0000#SCNTRG0<ACK>;<ETX>

Chapter 2 Imaging Commands

The scanner is like a digital camera in the way it captures, manipulates and transfer images. The following commands allow you to alter the way the scanner performs these functions.

Get Device Image Resolution

Sending:

~<SOH> 0000@IMGGWH;<ETX>

Response:

<STX><SOH> 0000@IMGGWHxxxWyyyH<ACK>;<ETX> (xxx means width and yyy means height)

For example, IMGGWH752W480H means the width is 752 and the height is 480.

Get Device Image Bit Depth

Sending:

~<SOH> 0000@IMGGBD;<ETX>

Response:

<STX><SOH> 0000@IMGGBD\$<ACK>;<ETX> (\$ means bit depth)

For example, IMGGBD8 means the device image bit depth is 8.

Load Image

Parameters:

T- Imaging Style

0T - latest image

1T - latest and successful decoding image

2T - latest and successful decoding image containing barcode position information

R- Image Ratio

0R - Raw image

1R - 1/4 image

2R - 1/16 image

F - File Format

0F - Raw image

1F - BMP format

2F - JPEG image

3F - TIFF format

Q - JPEG Image Quality

0Q - Low

1Q - Medium

2Q - High

3Q - Highest

Sending: ~<SOH> 0000@IMGGET\$;<ETX> (\$ means Data, that is the parameter)

When the data is '^' (that is, "IMGGET^ ", indicating enquiring available value range), the response is <STX><SOH> 0000@IMGGETaaaTbbbRcccFdddQ<ACK>;<ETX> (aaa, bbb, ccc and ddd respectively means imaging style, image ratio, file format and JPEG image quality). For example, <STX> <SOH> 0000@IMGGET0-1T0-2R0-3F0-3Q<ACK>;<ETX> indicates the device support the features as below.

1. Imaging Style: Photo style and decoding image.
2. Image Ratio: raw image, 1/4 image and 1/16 image.
3. File Format: Raw image, BMP format, JPEG image and TIFF format.
4. JPEG Image Quality: low, medium, high and highest.

When the data is the command parameter above, the response is <STX> <SOH> 0000#(or @) IMGGET\$ + [Position (it only occurs when the image type is set as 2T. The row coordinate is represented by 'xxxH', the column coordinate is represented by 'xxxW', and the coordinate data of each point is separated by '|').] + length (the length of image data) + Image data +<ACK>;<ETX>

Example 1:

Sending:

~<SOH>0000#IMGGET0T0R0F;<ETX>

Response:

```
<STX><SOH>0000#IMGGET0T0R0F00058200xxxxxxxxxxxx<ACK>;<ETX>
```

0x00058200 indicates image length and xxxxxxxxxxxx indicates image data.

Example 2:

Sending:

```
~<SOH>0000#IMGGET2T0R0F<ETX>
```

Response:

```
<STX><SOH>0000#IMGGET2T0R0F200W100H|480W100H|200W300H|480W300H00058200xxxxxxxxxxxx<ACK>;<ETX>
```

0x00058200 indicates image length and xxxxxxxxxxxx indicates image data. The coordinates of the barcode in the image are (200W, 100H) , (480W,100H) , (200W,300H) and (480W,300H) .

Load Barcode Area Image.

Parameters:

F - File Format

0F - Raw image

1F -BMP format

2F - JPEG image

3F - TIFF format

Q - JPEG Image Quality

0Q -Low

1Q - Medium

2Q - High

3Q - Highest

Sending: ~<SOH> 0000@IMGBGT\$;<ETX> (\$ means Data, that is the parameter)

When the data is '^' (that is, "IMGBGT ^", indicating enquiring available value range), the response is <STX><SOH> 0000@IMGBGTcccFdddQ<ACK>;<ETX> (ccc and ddd respectively means file format and JPEG image quality). For example, <STX><SOH> 0000@IMGBGT0-3F0-3Q<ACK>;<ETX> indicates the device support the features as below.

1. File Format: Raw image, BMP format, JPEG image and TIFF format.
2. JPEG Image Quality: low, medium, high and highest.

When the data is the parameter above, the response is <STX> <SOH> 0000#(or @) IMGBGT\$ + xxxW(width) + xxxH(height) + length (the length of image data) + Image data +<ACK>;<ETX>

Example:

Sending:

~<SOH>0000#IMGBGT0F;<ETX>

Response:

<STX> <SOH>0000#IMGBGT0F320W240H00012C00xxxxxxxxxxxx<ACK>;<ETX>

It means that the image resolution is 320*240, image length is 0x00012C00 and image data is xxxxxxxxxxxx.

Appendix

Command Table

Parameter	Function	Command	Remark
Default Settings			
Default Settings	Restore All Factory Defaults	FACDEF	
	Restore All Custom Defaults	CUSDEF	
	Save as Custom Defaults	CUSSAV	
	Delete Custom Defaults	CUSDEL	
Communication Interface			
Interface	USB HID Keyboard	INTERF0	
	PS/2 Keyboard	INTERF3	
	HID POS (POS HID Bar Code Scanner)	INTERF4	
	IBM SurePOS (Table-Top)	INTERF5	
	IBM SurePOS (Hand-Held)	INTERF6	
	USB CDC COM Port	INTERF7	
	USB HID Keyboard	INTERF8	
Baud Rate	1200	232BAD0	
	2400	232BAD1	
	4800	232BAD2	
	9600	232BAD3	
	14400	232BAD4	
	19200	232BAD5	
	38400	232BAD6	
	57600	232BAD7	
Parity Check	115200	232BAD8	
	None	232PAR0	
	Even Parity	232PAR1	
Stop Bits	Odd Parity	232PAR2	
	1 Stop Bit	232STP0	
RS232 Data Bits	2 Stop Bits	232STP1	
	7 Data Bits	232DAT1	
	8 Data Bits	232DAT0	

RS232 Hardware Flow Control	Off	232AFL0	
	On	232AFL1	
Flow Control	No Flow Control	232FLW0	
	RTS Flow Control	232FLW1	
	CTS Flow Control	232FLW2	
	RTS And CTS Flow Control	232FLW3	
Keyboard Country Layout	Keyboard Country Layout	KBWCTY\$	\$ means data
	United States	KBWCTY0	
	Belgium	KBWCTY1	
	Brazil	KBWCTY2	
	Canada (French)	KBWCTY3	
	Czechoslovakia	KBWCTY4	
	Denmark	KBWCTY5	
	Finland (Swedish)	KBWCTY6	
	France	KBWCTY7	
	Germany/Austria	KBWCTY8	
	Greece	KBWCTY9	
	Hungary	KBWCTY10	
	Israel (Hebrew)	KBWCTY11	
	Italy	KBWCTY12	
	Latin America	KBWCTY13	
	Netherlands (Dutch)	KBWCTY14	
	Norway	KBWCTY15	
	Poland	KBWCTY16	
	Portugal	KBWCTY17	
	Romania	KBWCTY18	
	Russia	KBWCTY19	
	Slovakia	KBWCTY21	
	Spain	KBWCTY22	
	Sweden	KBWCTY23	
	Switzerland (German)	KBWCTY24	
	Turkey F	KBWCTY25	
	Turkey Q	KBWCTY26	
	United Kindom	KBWCTY27	
	Japan	KBWCTY28	

		Poland(Programmers)	KBWCTY29	
		Czech (Programmers)	KBWCTY30	
		Germany(No Dead Key)	KBWCTY31	
Beep on Unknown Character		Off	KBWBUC0	
		On	KBWBUC1	
Emulate ALT+Keypad		Off	KBWALT0	
		On	KBWALT1	
	Code Page	Code Page 1252 (Latin, Western European)	KBWCPCG0	
		Code Page 1251 (Cyrillic)	KBWCPCG1	
		Code Page 1250 (Central European)	KBWCPCG2	
		Code Page 1253 (Greek)	KBWCPCG3	
		Code Page 1254 (Turkish)	KBWCPCG4	
		Code Page 1255 (Hebrew)	KBWCPCG5	
		Code Page 1256 (Arabic)	KBWCPCG6	
		Code Page 1257 (Baltic)	KBWCPCG7	
		Code Page 1258 (Vietnamese)	KBWCPCG8	
		Code Page 936 (Simplified Chinese, GB2312, GBK)	KBWCPCG9	
		Code Page 950 (Traditional Chinese, Big5)	KBWCPCG10	
		Code Page 874 (Thai)	KBWCPCG11	
		Code Page 932 (Japanese, Shift-JIS)	KBWCPCG12	
		Code Page 949 (Korean, Unified Hangul Code)	KBWCPCG13	
	Output Unicode	Off	KBWCPU0	
		On	KBWCPU1	
	Leading Zero	Off	KBWALZ0	
		On	KBWALZ1	
Control Characters Output		Off	KBWFKM0	
		Control+ASCII Mode	KBWFKM1	
		Alt+Keypad Mode	KBWFKM2	
Inter-Keystroke Delay		No Delay	KBWDLY0	
		Short Delay (20ms)	KBWDLY20	
		Long Delay (40ms)	KBWDLY40	
		Custom	KBWDLY\$	\$ means data
Caps Lock		Off	KBWCAP0	
		On	KBWCAP1	

		Mode 2 - Off	KBWCAP2	
		Mode 2 - On	KBWCAP3	
Convert Case		No Case Conversion	KBWCAS0	
		Convert All to Upper Case	KBWCAS1	
		Convert All to Lower Case	KBWCAS2	
Emulate Numeric Keypad	Numeric Character Use Numeric Keypad	Off	KBWNUM0	
		On	KBWNUM1	
	‘+’, ‘-’, ‘*’, ‘/’Use Numeric Keypad	Off	KBWNCH0	
		On	KBWNCH1	
Fast Mode		Off	KBWFAS0	
		On	KBWFAS1	
USB Polling Rate		1ms	KBWPOR0	
		2ms	KBWPOR1	
		3ms	KBWPOR2	
		4ms	KBWPOR3	
		5ms	KBWPOR4	
		6ms	KBWPOR5	
		7ms	KBWPOR6	
		8ms	KBWPOR7	
		9ms	KBWPOR8	
		10ms	KBWPOR9	
PS/2		External Keyboard Not Connected	PS2SLV0	
		External Keyboard Connected	PS2SLV1	
System Settings				
Barcode Programming		Exit Setup	SETUPE0	
		Enter Setup	SETUPE1	
	Programming Barcode Data	Do Not Transmit	SETUPT0	
		Transmit	SETUPT1	
Power On Beep		Off	PWBENA0	
		On	PWBENA1	
Good Read Beep		Off	GRBENA0	
		On	GRBENA1	
Good Read Beep Volume		Loud	GRBVOL0	
		Medium	GRBVOL1	
		Low	GRBVOL2	
Good Read Beep Duration		Medium	GRBDUR80	

	Short	GRBDUR40	
	Long	GRBDUR120	
	Custom	GRBDUR\$	\$ means data
Good Read Beep Frequency	Lowest	GRBFRQ800	
	Low	GRBFRQ1600	
	Medium	GRBFRQ2730	
	High	GRBFRQ4200	
	Custom	GRBFRQ\$	\$ means data
Number of Good Read Beeps		GRBNUM\$	\$ means data
Good Read Beep Interval Time	Short	GRBITV0	
	Medium	GRBITV1	
Bad Read Beep	Off	BRBENA0	
	On	BRBENA1	
Bad Read Beep Volume	Loud	BRBVOL0	
	Medium	BRBVOL1	
	Low	BRBVOL2	
Bad Read Beep Duration	Medium	BRBDUR80	
	Short	BRBDUR40	
	Custom	BRBDUR\$	\$ means data
Bad Read Beep Frequency	Lowest	BRBFRQ800	
	Low	BRBFRQ1600	
	Medium	BRBFRQ2730	
	High	BRBFRQ4200	
	Custom	BRBFRQ\$	\$ means data

Number of Bad Read Beeps		BRBNUM\$	\$ means data
Bad Read Beep Interval Time	Short	BRBITV0	
	Medium	BRBITV1	
Good Read LED	Off	GRLENA0	
	On	GRLENA1	
Good Read LED Duration	Short (20ms)	GRLDUR20	
	Medium (120ms)	GRLDUR120	
	Long (220ms)	GRLDUR220	
	Prolonged (320ms)	GRLDUR320	
	Custom	GRLDUR\$	\$ means data
Good Read Vibration	Off	GRVENA0	
	On	GRVENA1	
Vibration Duration	Vibration Duration	GRVDUR\$	\$ means data
Good Read Indicator Timing	Good Read = Indicate before data transmission	GRBTIM0	
	Good Read = Indicate after data transmission	GRBTIM1	
Power On LED	Off	POLENA0	
	On	POLENA1	
Illumination	Off	ILLSCN0	
	On	ILLSCN1	
	Always On	ILLSCN2	
	Fade Up	ILLSCN3	
Illumination	Red LED	ILLCLR0	
	White LED	ILLCLR1	
	Both	ILLCLR2	
Aiming	Off	AMLENA0	
	On	AMLENA1	
	Always On	AMLENA2	
Scan Mode	Level Trigger Mode	SCNMOD0	
	Trigger Mode	SCNMOD1	
	Sense Mode	SCNMOD2	
	Continuous Mode	SCNMOD3	
	Pulse Mode	SCNMOD4	
	Aiming Mode	SCNMOD5	

		Flashing Mode	SCNMOD6	
		Batch Mode	SCNMOD7	
		Auto Mode	SCNMOD8	
Serial Port Trigger Instructions		Disable	SCNTCE0	
		Enable	SCNTCE1	
		Edit Start Scanning Instruction	SCNTCT\$	\$ means data
		Edit Stop Scanning Instruction	SCNTCP\$	\$ means data
Command Trigger Mode		Start Trigger Simulation	SCNCTM1	
		Stop Trigger Simulation	SCNCTM0	
Reading Interval		Reading Interval	SCNINV\$	\$ means data
After A Good Read (Sense Mode)		Go into Sensing Status	SENAGR0	
		Go into Scan Status	SENAGR1	
Image Stabilization Timeout (Sense Mode)		Image Stabilization Timeout (Sense Mode)	SENIST\$	\$ means data
One Reading Timeout		One Reading Timeout	ORTSET\$	\$ means data
Delay	Reread Delay	Off	RRDENA0	
		On	RRDENA1	
	Reread Delay time	Reread Delay time	RRDDUR\$	\$ means data
	Good Read Delay	Off	GRDENA0	
		On	GRDENA1	
	Good Read Delay Time	Good Read Delay Time	GRDDUR\$	\$ means data
Flash On/Flash Off Time (Flashing Mode)		Flash On Time	FONDUR\$	\$ means data
		Flash Off Time	FOFDUR\$	\$ means data
Sensing Trigger Conditions (Sense Mode)		Image Change Trigger	SENTRG0	
		Infrared Proximity Trigger	SENTRG1	
		Both	SENTRG2	
Sensitivity (Sense Mode)		Low	SENVL14	
		Medium	SENVL11	
		High	SENVL8	

		Enhanced	SENLVL5	
		Custom	SENLVL\$	\$ means data
Scanning Preferences		Normal	EXPLVL0	
		Reflections Eliminating	EXPLVL1	
		Mobile Mode	EXPLVL2	
		Normal Motion Tolerance	EXPLVL3	
		High Motion Tolerance	EXPLVL4	
		Mobile Mode 2	EXPLVL5	
		Disable The Switch	BECENA0	
		Enable The Switch	BECENA1	
Read Barcode On/Off		Read Barcode Off	SCNENA0	
		Read Barcode On	SCNENA1	
Smart Stand Mode		Off	SMTENA0	
		On	SMTENA1	
Decode Central Area		Whole Area Decoding	CADENA0	
		Specify Central Area Decoding	CADENA1	
		Aiming Bar Code Decoding	CADENA2	
	Central Area	Top of Central Area	CADTOP\$	\$ means data
		Bottom of Central Area	CADBOT\$	\$ means data
		Left of Central Area	CADLEF\$	\$ means data
		Right of Central Area	CADRIG\$	\$ means data
Output Interval (1D)		Set Output Interval to 0ms	CDAINV0	
		Set Output Interval to 50ms	CDAINV1	
		Set Output Interval to 100ms	CDAINV2	
		Set Output Interval to 150ms	CDAINV3	
Transmit Not Good Read Message		Disable	NGRENA0	
		Enable	NGRENA1	
	Edit NGR Message	Edit NGR Message	NGRSET\$	\$ means data
Image Mirror(OEM Only)		Normal	MIRROR0	
		Horizontal Mirror	MIRROR1	
		Vertical Flip	MIRROR2	

		Horizontal Mirror and Vertical Flip	MIRROR3	
Operating Modes		Power Off	PWROFF	
		Idle	PWRIDL	
		Sleep Mode	PWRSLP	
		Deep Sleep Mode	PWRDSP	
		Enable Auto Idle	ATIDLE1	
		Disable Auto Idle	ATIDLE0	
		Time Period from Idle to Sleep	ATIDUR	
Security Level (1D)		1	SAFLVL0	
		2	SAFLVL1	
		3	SAFLVL2	
		4	SAFLVL3	
Febrabn Barcode Transmit Delay	Transmit Delay per Character	Off	FEBSEN0	
		On	FEBSEN1	
	Custom Transmit Delay per Character		FEBSDT\$	\$ means data
	Transmit Delay per 12 Characters	Off	FEBMEN0	
		On	FEBMEN1	
	Custom Transmit Delay per 12 Characters	0ms	FEBMDT0	
		300ms	FEBMDT1	
		400ms	FEBMDT2	
		500ms	FEBMDT3	
		600ms	FEBMDT4	
		700ms	FEBMDT5	
		800ms	FEBMDT6	
		900ms	FEBMDT7	
Decoding Timeout			DETSET\$	\$ means data
USB Suspend		Disable USB Suspend	USPENA0	
		Enable USB Suspend	USPENA1	
Inquire Product Information		Inquire Product Information	QRYSYS	
		Inquire Firmware Version	QRYFWV	
		Inquire Decoder Version	QRYDCV	
		Inquire Hardware Information	QRYHWV	
		Inquire Product Name	QRYPDN	
		Inquire Product Serial Number	QRYP SN	

		Inquire Manufacturing Date	QRYDAT	
		Inquire Product OEM Serial Number (ESN)	QRYESN	
		Inquire Data Formatting Version	QRYDFM	
1D Code				
Global Settings		Disable All Symbologies	ALLENA0	
		Enable All Symbologies	ALLENA1	
		Disable 1D Symbologies	ALL1DC0	
		Enable 1D Symbologies	ALL1DC1	
		Disable 2D Symbologies	ALL2DC0	
		Enable 2D Symbologies	ALL2DC1	
		Disable All Postal Symbologies	ALLPST0	
		Enable All Postal Symbologies	ALLPST1	
		Video Reverse Off	ALLINV0	
		Video Reverse On	ALLINV1	
		Enhance Poor Quality 1D Barcode Decoding (Off)	ALL1DE0	
		Enhance Poor Quality 1D Barcode Decoding (On)	ALL1DE1	
		Disable Read UPC/EAN With Additional Codes	ALLADD0	
		Enable Read UPC/EAN With Additional Codes	ALLADD1	
		Must Read UPC/EAN With Additional Codes	ALLADD2	
Code 128	Restore Factory Defaults	Restore the Factory Defaults of Code 128	128DEF	
	Enable/Disable	Disable Code 128	128ENA0	
		Enable Code 128	128ENA1	
	Set Length	Set the Minimum Length	128MIN	
		Set the Maximum Length	128MAX	
	Transmit Check Character	Do Not Transmit	128CHK1	
		Transmit	128CHK2	
	Function Code 1 Transmit	On	128FNC1	
		Off	128FNC0	
EAN-8	Restore Factory Defaults	Restore the Factory Defaults of EAN-8	EA8DEF	
	Enable/Disable	Disable EAN-8	EA8ENA0	
		Enable EAN-8	EA8ENA1	
	Transmit Check Character	Do Not Transmit	EA8CHK1	
		Transmit	EA8CHK2	

	2-Digit Add-On	Disable 2-Digit Add-On Code	EA8AD20	
		Enable 2-Digit Add-On Code	EA8AD21	
	5-Digit Add-On	Disable 5-Digit Add-On Code	EA8AD50	
		Enable 5-Digit Add-On Code	EA8AD51	
	Add-On Code Required	Not Required	EA8REQ0	
		Required	EA8REQ1	
	Add-On Code Separator	Off	EA8SEP0	
		On	EA8SEP1	
	Convert EAN-8 to EAN-13	Disable EAN-8 Zero Extend	EA8EXP0	
		Convert EAN-8 to EAN-13	EA8EXP1	
EAN-13	Restore Factory Defaults	Restore the Factory Defaults of EAN-13	E13DEF	
	Enable/Disable	Disable EAN-13	E13ENA0	
		Enable EAN-13	E13ENA1	
	Transmit Check Character	Do Not Transmit	E13CHK1	
		Transmit	E13CHK2	
	2-Digit Add-On	Disable 2-Digit Add-On Code	E13AD20	
		Enable 2-Digit Add-On Code	E13AD21	
	5-Digit Add-On	Disable 5-Digit Add-On Code	E13AD50	
		Enable 5-Digit Add-On Code	E13AD51	
	Add-On Code Required	Not Required	E13REQ0	
		Required	E13REQ1	
	Add-On Code Separator	Off	E13SEP0	
		On	E13SEP1	
	EAN-13 Beginning with 290 Add-On Code Required	Don't Require	E132900	
		Require	E132901	
	EAN-13 Beginning with 378/379 Add-On Code Required	Don't Require	E133780	
		Require	E133781	
	EAN-13 Beginning with 414/419 Add-On Code Required	Don't Require	E134140	
		Require	E134141	
	EAN-13 Beginning with 434/439 Add-On Code Required	Don't Require	E134340	
		Require	E134341	
	EAN-13 Beginning with	Don't Require	E139770	

	977 Add-On Code Required	Require	E139771	
	EAN-13 Beginning with 978 Add-On Code Required	Don't Require	E139780	
		Require	E139781	
	EAN-13 Beginning with 979 Add-On Code Required	Don't Require	E139790	
		Require	E139791	
UPC-E	Restore Factory Defaults	Restore the Factory Defaults of UPC-E	UPEDEF	
	Enable/Disable	Disable UPC-E	UPEENA0	
		Enable UPC-E	UPEENA1	
	UPC-E0	Disable UPC-E0	UPEEN00	
		Enable UPC-E0	UPEEN01	
	UPC-E1	Disable UPC-E1	UPEEN10	
		Enable UPC-E1	UPEEN11	
	Transmit Check Character	Do Not Transmit	UPECHK1	
		Transmit Check	UPECHK2	
	2-Digit Add-On	Disable 2-Digit Add-On Code	UPEAD20	
		Enable 2-Digit Add-On Code	UPEAD21	
	5-Digit Add-On	Disable 5-Digit Add-On Code	UPEAD50	
		Enable 5-Digit Add-On Code	UPEAD51	
	Add-On Code Required	Not Required	UPEREQ0	
		Required	UPEREQ1	
	Add-On Code Separator	Off	UPESEP0	
		On	UPESEP1	
	UPC-E Preamble	No Preamble (<DATA>)	UPEPRE0	
		System Character (<SYSTEM CHARACTER><DATA>)	UPEPRE1	
		Country Code & System Character (<COUNTRY CODE><SYSTEM CHARACTER><DATA>)	UPEPRE2	
	Convert UPC-E to UPC-A	Disable UPC-E Extend	UPEEXP0	
		Convert UPC-E to UPC-A	UPEEXP1	

UPC-A	Restore Factory Defaults	Restore the Factory Defaults of UPC-A	UPADEF	
	Enable/Disable	Disable UPC-A	UPAENA0	
		Enable UPC-A	UPAENA1	
	Transmit Check Character	Do Not Transmit	UPACHK1	
		Transmit	UPACHK2	
	2-Digit Add-On	Disable 2-Digit Add-On Code	UPAAD20	
		Enable 2-Digit Add-On Code	UPAAD21	
	5-Digit Add-On	Disable 5-Digit Add-On Code	UPAAD50	
		Enable 5-Digit Add-On Code	UPAAD51	
	Add-On Code Required	Not Required	UPAREQ0	
		Required	UPAREQ1	
	Add-On Code Separator	Off	UPASEP0	
		On	UPASEP1	
	UPC-A Preamble	No Preamble (<DATA>)	UPAPRE0	
		System Character (<SYSTEM CHARACTER><DATA>)	UPAPRE1	
		Country Code & System Character (< COUNTRY CODE><SYSTEM CHARACTER><DATA>)	UPAPRE2	
Coupon	UPC-A/EAN-13 with Extended Coupon Code	Off	CPNENA0	
		Allow Concatenation	CPNENA1	
		Require Concatenation	CPNENA2	
	Coupon GS1 DataBar Output	Off	CPNGS10	
		On	CPNGS11	
Interleaved 2 of 5	Restore Factory Defaults	Restore the Factory Defaults of Interleaved 2 of 5	I25DEF	
	Enable/Disable	Disable Interleaved 2 of 5	I25ENA0	
		Enable Interleaved 2 of 5	I25ENA1	
	Set Length	Set the Minimum Length	I25MIN	
		Set the Maximum	I25MAX	
	Check Character Verification	Disable	I25CHK0	
		Enable But Do Not Transmit Check Character	I25CHK1	
		Enable And Transmit Check Character	I25CHK2	
	Febraban	Disable Febraban	I25FBB0	
		Enable Febraban, Do Not Expand	I25FBB1	
		Enable Febraban, Expand	I25FBB2	

ITF-14	Restore Factory Defaults	Restore the Factory Defaults of ITF-14	I14DEF	
	Enable/Disable	Disable	I14ENA0	
		Enable But Do Not Transmit Check Character	I14ENA1	
		Enable And Transmit Check Character	I14ENA2	
ITF-6	Restore Factory Defaults	Restore the Factory Defaults of ITF-6	IT6DEF	
	Enable/Disable	Disable	IT6ENA0	
		Enable But Do Not Transmit Check Character	IT6ENA1	
		Enable And Transmit Check Character	IT6ENA2	
Matrix 2 of 5	Restore Factory Defaults	Restore the Factory Defaults of Matrix 2 of 5	M25DEF	
	Enable/Disable	Disable Matrix 2 of 5	M25ENA0	
		Enable Matrix 2 of 5	M25ENA1	
	Set Length	Set the Minimum Length	M25MIN	
		Set the Maximum Length	M25MAX	
	Check Character Verification	Disable	M25CHK0	
		Enable But Do Not Transmit Check Character	M25CHK1	
		Enable And Transmit Check Character	M25CHK2	
Code 39	Restore Factory Defaults	Restore the Factory Defaults of Code 39	C39DEF	
	Enable/Disable	Disable Code 39	C39ENA0	
		Enable Code 39	C39ENA1	
	Set Length	Set the Minimum Length	C39MIN	
		Set the Maximum Length	C39MAX	
	Check Character Verification	Disable	C39CHK0	
		Enable But Do Not Transmit Check Character	C39CHK1	
		Enable And Transmit Check Character	C39CHK2	
	Start/Stop Character	Do Not Transmit	C39TSC0	
		Transmit	C39TSC1	
	Full ASCII	Disable Code 39 Full ASCII	C39ASC0	
		Enable Code 39 Full ASCII	C39ASC1	
	Code 32 Pharmaceutical (PARAF)	Disable	C39E320	
		Enable	C39E321	
	Code 32 Prefix	Disable	C39S320	
		Enable	C39S321	

	Code 32 Start/Stop Character	Do Not Transmit	C39T320	
		Transmit	C39T321	
	Code 32 Check Character	Do Not Transmit	C39C320	
		Transmit	C39C321	
Codabar	Restore Factory Defaults	Restore the Factory Defaults of Codabar	CBADEF	
	Enable/Disable	Disable Codabar	CBAENA0	
		Enable Codabar	CBAENA1	
	Set Length	Set the Minimum Length	CBAMIN	
		Set the Maximum Length	CBAMAX	
	Check Character Verification	Disable	CBACHK0	
		Enable But Do Not Transmit Check Character	CBACHK1	
		Enable And Transmit Check Character	CBACHK2	
	Start/Stop Character	Do Not Transmit	CBATSC0	
		Transmit	CBATSC1	
	Start/Stop Character Format	ABCD/ABCD	CBASCF0	
		ABCD/TN*E	CBASCF1	
		abcd/abcd	CBASCF2	
		abcd/tn*e	CBASCF3	
	CLSI Editing	Disable	CBACLS0	
		Enable	CBACLS1	
Code 93	Restore Factory Defaults	Restore the Factory Defaults of Code 93	C93DEF	
	Enable/ Disable	Disable Code 93	C93ENA0	
		Enable Code 93	C93ENA1	
	Set Length	Set the Minimum Length	C93MIN	
		Set the Maximum Length	C93MAX	
	Check Character Verification	Disable	C93CHK0	
		Enable But Do Not Transmit Check Character	C93CHK1	
		Enable And Transmit Check Character	C93CHK2	
GS1-128(UCC/EAN-128)	Restore Factory Defaults	Restore the Factory Defaults of GS1-128	GS1DEF	
	Enable/Disable	Disable GS1-128	GS1ENA0	
		Enable GS1-128	GS1ENA1	
	Set Length	Set the Minimum Length	GS1MIN	
		Set the Maximum Length	GS1MAX	

	Transmit Check Character	Don't Transmit	GS1CHK1	
		Transmit	GS1CHK2	
	Function Code 1 Transmit	On	GS1FNC1	
		Off	GS1FNC0	
GS1 DataBar(RSS)	Restore Factory Defaults	Restore the Factory Defaults of GS1-Databar	RSSDEF	
	Enable/Disable	Disable GS1-DataBar	RSSENA0	
		Enable GS1-DataBar	RSSENA1	
	Application Identifier "01"	Do Not Transmit	RSSTAI0	
		Transmit	RSSTAI1	
	GS1 DataBar Omnidirectional (RSS14)	Disable	RSSE140	
		Enable	RSSE141	
	GS1 DataBar Limited	Disable	RSSENL0	
		Enable	RSSENL1	
	GS1 DataBar Expand	Disable	RSSENE0	
		Enable	RSSENE1	
GS1 Composite	Restore Factory Defaults	Restore the Factory Defaults of GS1 Composite	CPTDEF	
	Enable/Disable	Disable GS1 Composite	CPTENA0	
		Enable GS1 Composite	CPTENA1	
	UPC/EAN Version	Disable	CPTUPC0	
		Enable	CPTUPC1	
Code 11	Restore Factory Defaults	Restore the Factory Defaults of Code 11	C11DEF	
	Enable/Disable	Disable Code 11	C11ENA0	
		Enable Code 11	C11ENA1	
	Set Length	Set the Minimum Length	C11MIN	
		Set the Maximum Length	C11MAX	
	Check Character Verification	Disable	C11CHK0	
		One Check Character, MOD11	C11CHK1	
		Two Check Characters, MOD11/MOD11	C11CHK2	
		Two Check Characters, MOD11/MOD9	C11CHK3	
		One Check Character, MOD11 (Len<=10), Two Check Characters, MOD11/MOD11 (Len>10)	C11CHK4	
		One Check Character, MOD11 (Len<=10), Two Check Characters, MOD11/MOD9 (Len>10)	C11CHK5	

	Transmit Check Character	Do Not Transmit	C11TCK0	
		Transmit	C11TCK1	
ISBN	Restore Factory Defaults	Restore the Factory Defaults of ISBN	ISBDEF	
	Enable/Disable	Disable ISBN	ISBENA0	
		Enable ISBN	ISBENA1	
	ISBN Format	ISBN-13	ISBT100	
		ISBN-10	ISBT101	
	2-Digit Add-On	Disable 2-Digit Add-On Code	ISBAD20	
		Enable 2-Digit Add-On Code	ISBAD21	
	5-Digit Add-On	Disable 5-Digit Add-On Code	ISBAD50	
		Enable 5-Digit Add-On Code	ISBAD51	
	Add-On Code Required	Not Required	ISBREQ0	
		Required	ISBREQ1	
Industrial 25	Add-On Code Separator	Off	ISBSEP0	
		On	ISBSEP1	
	Restore Factory Defaults	Restore the Factory Defaults of Industrial 2 of 5	L25DEF	
	Enable/Disable	Disable Industrial 2 of 5	L25ENA0	
		Enable Industrial 2 of 5	L25ENA1	
	Set Length	Set the Minimum Length	L25MIN	
		Set the Maximum Length	L25MAX	
Standard 25	Check Character Verification	Disable	L25CHK0	
		Enable But Do Not Transmit Check Character	L25CHK1	
		Enable And Transmit Check Character	L25CHK2	
	Restore Factory Defaults	Restore the Factory Defaults of Standard 25	S25DEF	
	Enable/Disable	Disable Standard 25	S25ENA0	
		Enable Standard 25	S25ENA1	
Plessey	Set Length	Set the Minimum Length	S25MIN	
		Set the Maximum Length	S25MAX	
	Check Character Verification	Disable	S25CHK0	
		Enable But Do Not Transmit Check Character	S25CHK1	
		Enable And Transmit Check Character	S25CHK2	
	Restore Factory Defaults	Restore the Factory Defaults of Plessey	PLYDEF	

	Enable/Disable	Disable Plessey	PLYENA0	
		Enable Plessey	PLYENA1	
	Set Length	Set the Minimum Length	PLYMIN	
		Set the Maximum Length	PLYMAX	
	Check Character Verification	Disable	PLYCHK0	
		Enable But Do Not Transmit Check Character	PLYCHK1	
		Enable And Transmit Check Character	PLYCHK2	
MSI Plessey	Restore Factory Defaults	Restore the Factory Defaults of MSI-Plessey	MSIDEF	
	Enable/Disable	Disable MSI-Plessey	MSIENA0	
		Enable MSI-Plessey	MSIENA1	
	Set Length	Set the Minimum Length	MSIMIN	
		Set the Maximum Length	MSIMAX	
	Check Character Verification	Disable	MSICHK0	
		One Check Character, MOD10	MSICHK1	
		Two Check Characters, MOD10/MOD10	MSICHK2	
		Two Check Characters, MOD10/MOD11	MSICHK3	
	Transmit Check Character	Do Not Transmit	MSITCK0	
		Transmit	MSITCK1	
ISSN	Restore Factory Defaults	Restore the Factory Defaults of ISSN	ISSDEF	
	Enable/Disable	Disable ISSN	ISSENA0	
		Enable ISSN	ISSENA1	
	2-Digit Add-On	Disable 2-Digit Add-On Code	ISSAD20	
		Enable 2-Digit Add-On Code	ISSAD21	
	5-Digit Add-On	Disable 5-Digit Add-On Code	ISSAD50	
		Enable 5-Digit Add-On Code	ISSAD51	
	Add-On Code Required	Not Required	ISSREQ0	
		Required	ISSREQ1	
	Add-On Code Separator	Off	ISSSEP0	
		On	ISSSEP1	
China Post 25	Restore Factory Defaults	Restore the Factory Defaults of China Post 25	CHPDEF	
	Enable/Disable	China Post 25 Decoding Off	CHPENAO	
		China Post 25 Decoding On	CHPENAI	
	Set Length	Minimum Length	CHPMIN	

		Maximum Length	CHPMAX	
	Check Character Verification	Disable	CHPCHK0	
		Enable But Do Not Transmit Check Character	CHPCHK1	
		Enable And Transmit Check Character	CHPCHK2	
AIM 128	Restore Factory Defaults	Restore the Factory Defaults of AIM-128	AIMDEF	
	Enable/Disable	Disable AIM-128	AIMENA0	
		Enable AIM-128	AIMENA1	
	Set Length	Set the Minimum Length	AIMMIN	
		Set the Maximum Length	AIMMAX	
	Transmit Check Character	Do Not Transmit Check Character(s)	AIMCHK1	
		Transmit Check Character(s)	AIMCHK2	
	Function Code 1 Transmit	On	AIMFNC1	
Off		AIMFNC0		
ISBT 128	Restore Factory Defaults	Restore the Default Settings of ISBT 128	IBTDEF	
	Enable/Disable	ISBT 128 Decoding Off	IBTENA0	
		ISBT 128 Decoding On	IBTENA1	
Code 49	Restore Factory Defaults	Restore the Default Settings of Code 49	C49DEF	
	Enable/Disable	Disable Code 49	C49ENA0	
		Enable Code 49	C49ENA1	
	Set Length	Set the Minimum Length	C49MIN	
		Set the Maximum Length	C49MAX	
Code 16K	Restore Factory Defaults	Restore the Default Settings of Code 16K	16KDEF	
	Enable/Disable	Disable Code 16K	16KENA0	
		Enable Code 16K	16KENA1	
	Set Length	Set the Minimum Length	16KMIN	
		Set the Maximum Length	16KMAX	
2D Code				
PDF417	Restore Factory Defaults	Restore the Factory Defaults of PDF 417	PDFDEF	
	Enable/Disable	Disable PDF 417	PDFENA0	
		Enable PDF 417	PDFENA1	
	Set Length	Set the Minimum Length	PDFMIN	

		Set the Maximum Length	PDFMAX	
	PDF417 Twin Code	Single PDF417 Only	PDFDOU0	
		Twin PDF417 Only	PDFDOU1	
		Both Single & Twin	PDFDOU2	
	PDF417 Inverse	Decode Regular PDF417 Bar Codes Only	PDFINV0	
		Decode Inverse PDF417 Bar Codes Only	PDFINV1	
		Decode Both	PDFINV2	
	ECI Output	Disable	PDFECI0	
		Enable	PDFECI1	
	Character Encoding Type	Default	PDFENC0	
		UTF-8	PDFENC1	
QR	Restore Factory Defaults	Restore the Factory Defaults of QR Code	QRDEF	
	Enable/Disable	Disable QR Code	QRCENA0	
		Enable QR Code	QRCENA1	
	Set Length	Set the Minimum Length	QRDMIN	
		Set the Maximum Length	QRDMAX	
	QR Twin Code	Single QR Only	QRDOU0	
		Twin QR Only	QRDOU1	
		Both Single & Twin	QRDOU2	
	Micro QR	Enable	QRMC1	
		Disable	QRMC0	
	QR Inverse	Decode Regular Data QR Bar Codes Only	QRINV0	
		Decode Inverse QR Bar Codes Only	QRINV1	
		Decode Both	QRINV2	
	ECI Output	Disable	QRCEI0	
		Enable	QRCEI1	
	Character Encoding Type	Default	QRENC0	
		UTF-8	QRENC1	

Maxicode	Restore Factory Defaults	Restore the Factory Defaults of Maxicode	MXCDEF	
	Enable/Disable	Disable Maxicode	MXCENA0	
		EnableMaxicode	MXCENA1	
	Set Length	Set the Minimum Length	MXCMIN	
		Set the Maximum Length	MXCMAX	

汉信码	Restore Factory Defaults	Restore the Factory Defaults of Chinese Sensible Code	CSCDEF	
	Enable/Disable	Disable Chinese Sensible Code	CSCENA0	
		Enable Chinese Sensible Code	CSCENA1	
	Set Length	Set the Minimum Length	CSCMIN	
		Set the Maximum Length	CSCMAX	
	Chinese Sensible Code Twin Code	Single Chinese Sensible Code Only	CSCDOU0	
		Twin Chinese Sensible Code Only	CSCDOU1	
		Both Single & Twin	CSCDOU2	
	Chinese Sensible Code Inverse	Decode Regular Chinese Sensible Bar Codes Only	CSCINV0	
		Decode Inverse Chinese Sensible Bar Codes Only	CSCINV1	
		Decode Both	CSCINV2	
GM	Restore Factory Defaults	Restore the Factory Defaults of GM Code	GMCDEF	
	Enable/Disable	Disable GM Code	GMCENA0	
		Enable GM Code	GMCENA1	
	Set Length	Set the Minimum Length	GMCMIN	
		Set the Maximum Length	GMCMAX	
Micro PDF417	Restore Factory Defaults	Restore the Default Settings of Micro PDF417	MPDDEF	
	Enable/Disable	Disable Micro PDF417	MPDENA0	
		Enable Micro PDF417	MPDENA1	
	Set Length	Set the Minimum Length	MPDMIN	
		Set the Maximum Length	MPDMAX	
Micro QR	Restore Factory Defaults	Restore the Factory Defaults of Micro QR	MQRDEF	
	Enable/Disable	Disable Micro QR	MQRENA0	
		Enable Micro QR	MQRENA1	
	Set Length	Set the Minimum Length	MQRMIN	
		Set the Maximum Length	MQRMAX	
Code One	Restore Factory	Restore the Factory Defaults of Code One	ONEDEF	

	Defaults			
	Enable/Disable	Disable Code One	ONEENA0	
		Enable Code One	ONEENA1	
	Set Length	Set the Minimum Length	ONEMIN	
		Set the Maximum Length	ONEMAX	
Postal				
USPS Postnet	Restore Factory Defaults	Restore the Factory Defaults of USPS Postnet	PNTDEF	
	Enable/Disable	Disable USPS Postnet	PNTENA0	
		Enable USPS Postnet	PNTENA1	
	Transmit Check Character	Do Not Transmit	PNTCHK1	
		Transmit	PNTCHK2	
USPS Intelligent Mail	Restore Factory Defaults	Restore the Factory Defaults of USPS Intelligent Mail	ILGDEF	
	Enable/Disable	Disable USPS Intelligent Mail	ILGENA0	
		Enable USPS Intelligent Mail	ILGENA1	
Royal Mail	Restore Factory Defaults	Restore the Factory Defaults of Royal Mail	ROYDEF	
	Enable/Disable	Disable Royal Mail	ROYENA0	
		Enable Royal Mail	ROYENA1	
USPS Planet	Restore Factory Defaults	Restore the Factory Defaults of USPS Planet	PLADEF	
	Enable/Disable	Disable USPS Planet	PLAENA0	
		Enable USPS Planet	PLAENA1	
	Transmit Check Character	Do Not Transmit	PLACHK1	
		Transmit Check	PLACHK2	
KIX Post	Restore Factory Defaults	Restore the Factory Defaults of KIX Post	KIXDEF	

	Enable/Disable	Disable KIX Post	KIXENA0	
		Enable KIX Post	KIXENA1	
Australian Postal	Restore Factory Defaults	Restore the Factory Defaults of Australian Postal	APLDEF	
	Enable/Disable	Disable Australian Postal	APLENA0	
		Enable Australian Postal	APLENA1	
Prefixes/Suffixes				
Global Settings All Prefixes/Suffixes		Disable	APSENA0	
		Enable	APSENA1	
Prefix Sequences		Code ID+Custom Prefix+AIM ID	PRESEQ0	
		Custom Prefix+Code ID+AIM ID	PRESEQ1	
Custom Prefix		Disable	CPRENA0	
		Enable	CPRENA1	
	Modify Custom Prefix	Modify Custom Prefix	CPRSET\$	\$ means data
AIM ID Prefix		Disable	AIDENA0	
		Enable	AIDENA1	
Code ID Prefix	Code ID Prefix	Disable	CIDENA0	
		Enable	CIDENA1	
	Default Code ID	Restore All Default Code IDs	CIDDEF	
	Modify 1D Symbologies Code ID	Code128	CID002	
		GS1-128 (UCC/EAN-128)	CID003	
		EAN-8	CID004	
		EAN-13	CID005	
		UPC-E	CID006	
		UPC-A	CID007	
		Interleaved 2 of 5	CID008	
		ITF-14	CID009	
		ITF-6	CID010	
		Matrix 2 of 5	CID011	
		Code 39	CID013	
		Codabar	CID015	
		Code 93	CID017	
		China Post 25	CID019	
		AIM 128	CID020	

		ISBT 128	CID021	
		COOP 25	CID022	
		ISSN	CID023	
		ISBN	CID024	
		Industrial 25	CID025	
		Standard 25	CID026	
		Plessey	CID027	
		Code 11	CID028	
		MSI Plessey	CID029	
		GS1 Composite	CID030	
		GS1 Databar (RSS)	CID031	
		Deutsche 14	CID128	
		Deutsche 12	CID129	
		Telepen	CID130	
		Code 49	CID132	
		Code 16K	CID133	
	Modify 2D Symbologies Code ID	PDF417	CID032	
		QR	CID033	
		Aztec	CID034	
		Data Matrix	CID035	
		MaxiCode	CID036	
		Chinese Sensible Code	CID039	
		GM	CID041	
		Micro PDF417	CID042	
		Micro QR	CID043	
		DPM Data Matrix	CID044	
		Code One	CID048	
	Modify Postal Symbologies Code ID	USPS Postnet	CID096	
		USPS Intelligent Mail	CID097	
		Royal Mail	CID098	
		USPS Planet	CID099	
		KIX Post	CID100	
		Australian Postal	CID101	
Custom Suffix	Custom Suffix	Disable	CSUENA0	
		Enable	CSUENA1	
	Modify Custom Suffix	Modify Custom Suffix	CSUSET\$	\$ means

				data
Terminating Character Suffix	Terminating Character Suffix	Disable	TSUENA0	
		Enable	TSUENA1	
	Modify Terminating Character Suffix	Modify Terminating Character Suffix	TSUSET\$	\$ means data
		Terminating Character CR (0x0D)	TSUSET0D	
		Terminating Character CR LF (0x0D,0x0A)	TSUSET0D0 A	
Data Formatting				
		Default Data Format	DFMDEF	
Data Formatter		Disable Data Formatter	DFMENA0	
		Enable Data Formatter, Required, Keep Prefix/Suffix:	DFMENA1	
		Enable Data Formatter, Required, Drop Prefix/Suffix	DFMENA2	
		Enable Data Formatter, Not Required, Keep Prefix/Suffix	DFMENA3	
		Enable Data Formatter, Not Required, Drop Prefix/Suffix	DFMENA4	
Add Data Format		Add Data Format	DFMADD\$	\$ means data
Clear Data Format		Clear One Data Format	DFMCLR\$	\$ means data
		Clear All Data Formats	DFMCAL	
Select A Data Format		Data Format 0	DFMUSE0	
		Data Format 1	DFMUSE1	
		Data Format 2	DFMUSE2	
		Data Format 3	DFMUSE3	
Change Data Format for a Single Scan		Single Scan Use Format 0	DFMSIN0	
		Single Scan Use Format 1	DFMSIN1	
		Single Scan Use Format 2	DFMSIN2	
		Single Scan Use Format 3	DFMSIN3	
Non-Match Error Beep		On	DFMTON1	
		Off	DFMTON0	
Query Data Formats		Query Data Formats	DFMQCU	
		Query Default Data Formats	DFMQFA	
Data Packing				

Data Packing	Disable Data Packing	PACKAG0	
	Enable Data Packing, format 1	PACKAG1	
	Enable Data Packing, format 2	PACKAG2	
Batch Barcode			
Batch Barcode	Enable Batch Barcode	BATCHS	
Image			
Image	Get Device Image Resolution	IMGGWH	
	Get Device Image Bit Depth	IMGGBD	
	Load Image	IMGGET	
	Load Barcode Area Image	IMGBGT	
Other			
Digit Barcodes	0	DIGIT0	
	1	DIGIT1	
	2	DIGIT2	
	3	DIGIT3	
	4	DIGIT4	
	5	DIGIT5	
	6	DIGIT6	
	7	DIGIT7	
	8	DIGIT8	
	9	DIGIT9	
	A	DIGITA	
	B	DIGITB	
	C	DIGITC	
	D	DIGITD	
	E	DIGITE	
	F	DIGITF	
Save/Cancel Barcodes	Save	DIGSAV	
	Delete the Last Digit	DIGDEL	
	Delete All Digits	DIGDAL	
	Cancel	DIGCAN	

Questions?

For any technical question, please contact us at :
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