# Single Line Handheld Scanner



P/N: 590-33051E-002

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#### **General handling precautions**

- Do not dispose of the scanner in fire.
- Do not put the scanner directly in the sun or by any heat source.
- Do not use or store the scanner in a very humid place.
- Do not drop the scanner or allow it to collide violently with other objects.
- Do not take the scanner apart without authorization.

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## 1 Introduction

With an impressive scanning speed, this scanner is a high-speed single line laser handheld scanner that brings about the most effective scanning capability any handheld scanner offers. Guaranteed to bring in efficiency for any retail, office or warehouse environment, it is also enhanced through the built-in Z-SCAN decoding technology. This one of a kind technology provides real-time scanning and hardware decoding capability that ensures an unbeatable first read success rate.

Ergonomically designed, this handheld scanner is available in two different scan engines to choose from. Compared to other similar products on the market, both versions guarantee an impressive, fast and accurate first read success rate. It automatically reads and interprets the world's most popular 1D barcodes. Either scanners pledge high-reliability and superior performance. This slender and lightweight handheld scanner is ruggedly encased. Its durable trigger switch is sturdy enough to withstand heavy usage. The LED display and beeper are programmable to cater to the users' own preference. Equipped with multi-interface communication, the scanner has an outstanding scanning performance that promises to help you achieve boundless possibilities.

## 2 Scanner and Accessories

The high-speed single line laser handheld scanner package contains:

- 1 ea. single line laser handheld scanner
- 1 ea. Communication Cable
- 1 ea. Power Adapter (only for specific RS-232 cables)
- 1 ea. User's Manual (this book)

1 ea. Optional scanner stand

If any contents are damaged or missing, please contact your dealer immediately.

Please leave this Users' Manual within easy access of person using the scanner.









## 3 Quick Start

- Connect the 10-pin RJ45 male connector into the jack on the scanner. When the connection is made, a "click" will be heard. If the scanner is powered directly from the Host supply, skip to step 4.
- 2. Connect the L-shaped plug of the power supply into the power jack on the cable.
- 3. Connect the power supply into an AC outlet. Double check that the AC input requirement of the power supply match the AC outlet.
- 4. Connect the communication cable to the host (refer to your host manual to locate the correct port.)
- 5. Turn on the Host system.
- 6. Once the scanner is properly installed, the red, green, and blue LED will turn on.

## 4 Connecting to a Host

- 1. Turn off the host system.
- 2. Connect the 10-pin RJ45 male connector into the jack on the scanner. When the connection is made, a "click" will be heard. If the scanner is powered directly from the host supply, skip to step 5.
- 3. If it is necessary, plug the L-shaped plug of the power supply into the power jack on the cable.
- 4. Connect the power supply into an AC outlet. (Double check that the AC input requirements of the power supply match the AC outlet.)
- 5. Connect the cable to the proper port on the host system.
- 6. Turn on the host system.
- 7. If the scanner is properly installed, the red-green-blue LED will turn once and 3 power-up beep will be heard.
- 8. Set the scanner to communicate with your particular POS terminal by scanning the appropriate bar codes. The programming varies on different terminals, for more information consult chapter 13.
- 9. Verify that the scanner is successfully reading bar codes and transmitting the correct content to the terminal.

## 5 Disconnecting the Cable from the Scanner

Prior to removing the cable from the scanner, it is highly advised that the power of the host system is turned off, and power supply disconnected from the cable.

1. Locate the small hole at the bottom of the scanner.



- 2. Use a metallic pin and insert into the hole.
- 3. Gently pull the strain-relief of the cable once a faint "click" is heard.

### 6 How to Scan

There are two ways of scanning a bar code. One method is through "Handheld Mode" and the other is through "Stand Mode." The following explains how these can be achieved.

- 6.1 Scanning in Handheld mode
  - 1. When the scanner is removed from the stand, the trigger scan is activated.
  - 2. Press the trigger and aim at the bar code.
  - 3. When decoding is successful, the scanner beeps and the LED indicate blue/green.
- 6.2 Scanning in Stand mode
  - 1. The blue LED will blink when the scanner is placed on the optional presentation stand. This indicates that the Stand mode scanning is activated.
  - 2. Present the bar code in the scan field.
  - 3. The bar code will automatically be decoded and transmitted.

## 7 Scanner Outline



## 8 Assembling the Optional Stand

The optional self-supporting stand is to facilitate the usage of your scanner. It moves freely and can be placed anywhere on countertops. It can be tilted to a maximum of 60 degrees.



To attach the scanner to the optional stand, hook the scanner on the two holes located at the front of the stand.



## 9 Visible Indicators

There are three (blue) LED indicator bars and two (green/red) LED indicators on top of the scanner. These indicate the operational status of the scanner.

LED Status	LED Indication
Blue, Red, and Green LEDs are off	These LED will not be on if the scanner has no power from the host or transformer.
	When the scanner is in stand-by mode, the trigger button is enabled. Present a barcode to the scanner and the red LED will turn on when the laser is turned on.
Steady Blue, Red, and Green	The scanner is in Bootload Mode (firmware upgrade status)
Steady Red	When the laser is active, the red LED is on. The red LED will remain on until the laser is deactivated.
Single Green and Blue Flash	A barcode has been successfully decoded.
Steady Green	A barcode has been successfully decoded, but the object is not removed from the scan window. The scanner is in programming mode.
Steady Red/Green	This indicates the scanner has a motor or laser failure. A beep is heard when a motor failure occurs. Return the unit for repair.
Constant Blue Flashes	While the scanner is on the stand, the laser will turn on (along with the red LED) when a barcode is presented in the scan field. The barcode will be automatically decoded and transmitted.
Alternate Red and Green Flashes	The scanner detects a power failure. Please check whether the power is properly connected.

## 10 Sound Indicators

When the scanner is in operation, it provides audible feedback. The beeps indicate the status of the scanner.

Веер	Indication			
One Beep	A barcode has been successfully decoded.			
Three Consequent Beeps	This indicates that the scanner has passed the self-test and is operating properly. When the scanner is powered up.			
Two Consequent Beep	This indicates that the scanner is in programming mode.			
Continuous Beep Tone	This is a failure indication. Return the unit for repair.			

## 11 Troubleshooting

Problem	Possible Cause	Solution
The scanner has no reaction; no LED, beeps, or laser	The power is not ON	Refer to the "Quick Start" section of the manual
The scanner is functioning but it is not decoding.	The label of the barcode might be disabled. The number of characters of the barcode label does not match the initial setting.	Enable the barcode type from the programming guide. Adjust the label length setting of the barcode type.
When using the KBW interface, the data transmission is slower than usual	The system is not compatible with the international ALT method.	Under properties, select the language property that is suitable for your keyboard.
A barcode is read but not accepted by the host device.	Either a wrong interface is selected or the interface is incorrectly set.	Check the interface, cable used and its settings.
Alternating red and green flashes	There is a power failure in this scanner.	Please check and see if the power is properly connected.
Steady red/green LED	There is a laser failure in the scanner.	Immediately power off the scanner and return the unit for repair.
Characters are being dropped.	The delay time in the inter- character needs to be increased.	Adjust the character delay time.

## 12 Configuration Modes

This scanner has three programming modes.

#### 12.1 Barcodes

This scanner can be configured by scanning the bar codes located under the "Programming Guide" section. Please refer to this guide for instructions.

#### 12.2 Serial Programming

This mode gives end-users the ability to send a series of commands using the serial port of the host system. For more information, please contact your dealer.

## 13 Programming Guide

Scanning a series of programming bar code labels can configure the series scanners. This allows decoding options and interface protocols to be tailored to a specific application. The configuration is stored in non-volatile memory and will not be lost by removing power from the scanner.

The scanner must be properly powered before programming. For RS-232C type scanners, an external power adapter must be used to supply DC power to the scanner. If a keyboard emulation type scanner is used with an IBM PC/XT/ AT, PS/2 or any fully compatible computers, power will be drawn from the keyboard port. No external power adapter is required. If keyboard emulation type scanner is used with any other non IBM PC compatible computers, an external power adapter may be needed.

During the programming mode, the laser scanner will acknowledge a good and valid reading with a short beep. It will give long beeps for either an invalid or bad reading.

### 13.1 Programming Options

Programmable options are divided into four groups. The first group includes the options that show the general behavior of the laser scanner. The second group governs the operation of RS-232C type serial ports. The third group selects the keyboard type that the keyboard emulation type will be emulated. The last group sets the decoding parameters for each barcode symbology.

#### 13.2 Default Parameters

This table gives the default settings of all the programmable parameters. The default settings will be restored whenever the "Reset" programming label is scanned and the laser scanner is in programming mode.

## 13.3 Factory Default Setting

Scanner Timing	Default		
Same code delay	500msec		
RS-232 communication	Default		
Baud rate	9600		
Parity	none		
Data Bits	8		
Stop Bit	1		
RTS/CTS	off		
Terminator	<cr><lf></lf></cr>		
Keyboard Wedge Communication	Default		
Terminal Type	PC/AT		
Keyboard	US keyboard		
Terminator	Enter(Alpha numeric)		
USB Communication	Default		
Terminator type	Enter		
Code mode	Scan code		
Keyboard	US keyboard		
Wand Emulation	Default		
Wand emulation speed	Normal		
Data output	Black=high		
Decoder Selection	Default		
EAN/UPC	Enable		
CODE 39	Enable		
Code 32	disable		
CODABAR	Disable		
ITF 2 OF 5	Enable		
MSI	disable		
Chinese Post code	disable		
Code 93	Enable		
Code 128	Enable		
EAN-128	Disable		
Beeper sound	Default		
Frequency	Medium		
Duration	100msec		
Led/Beep Before transmission	On		
Operating parameter	Default		
Trigger mode(handheld mode)	Enable		
Stand mode	Enable		
Header and Trailer	None		
Inter-Message delay	None		
Inter character delay	None		
Code Identifiers	Default		
Identifier code as ZEBEX standard	Disable		
Identifier code as AIM standard	Disable		
Code 39 identifier code	M		
ITF 2 of 5 identifier code	I		
Chinese post code identifier code	Н		
UPC-A identifier code	A		
UPC-E identifier code	E		
EAN-13 identifier code	F		
EAN-8 identifier code	FF		
Codabar identifier code	N		
Code 128 identifier code	К		
Code 93 identifier code	L		
MSI identifier code	Р		

Code	Message format			
EAN-13	D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 D13			
EAN-8	D1 D2 D3 D4 D5 D6 D7 D8			
UPCA	D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12			
UPCE	D1 D2 D3 D4 D5 D6 D7 D8			
CODE128	D1-Dx (default 3~62)			
EAN128	]C1 D1-Dx (default 3~62)			
CODE39	D1-Dx (default 3~62)			
CODABAR	D1-Dx (default 6~32)			
INTERLEAVED 2/5	D1-Dx (default 6~32)			
CHINESE POST CODE	D1-Dx (default 8~32)			
CODE93	D1-Dx (default 3~32)			
MSI	D1-Dx (default 6~32)			

13.4 Default data transmit format

#### 13.5 Program Procedure Using Barcode Manual



## 13.6 Parameter setting

Note: Default values are highlighted in grey background.

Note. Default values are i	lighlighted in grey background.					
	Start Of Configuration					
System Function Setting						
Barcode Value	Description					
	Reset (return to factory default)					
	Display firmware version					
	Return as customer default					
	Save as customer default					
	Return to USB default					
	Deturn to word emulation default					
	Return to RS232 default					
	IBM PC/AT/PS/2 Keyboard emulation					
	Abort (exit programming mode(no update)					





#### Scan Function Setting













#### Handheld Operation

Trigger mode

The scanner becomes inactive as soon as the data is transmitted. It must be trigaered to become active again.

Pulse mode

This scanner will light up and blink when press the scanner trigger switch once. And, the scanner will turn off for next pressing. The laser remains on for approximately 3 to 10 second after enter Pulse light

Auto trigger mode.

The mode is auto object detect to active laser. Bar code data is transmitted when the trigger button is pressed. Note: Not all models support this function setting.

Aim mode.

Normal is pulse mode but Bar code data is transmitted when the trigger button is pressed

Momentary mode.

The scanner will light up only when the trigger switch is pressed. The scanner will turn off when the trigger switch is released.

## Flash on/off timeout duration

Medium

Fast

Slow





#### Scan Function Setting (continued)







#### **Operation Function Setting**



**Good Read Beeper Tone Selection** 

Medium beeper tone

High beeper tone



Low beeper tone Speaker disable



**Beeper Sound Selection** Long

Short

Ultra Long

Medium Volume

Power-on tone

enable



Medium

Ultra Short

Loud Volume

Slight volume

Power-on tone disable

LED/Beep after transmission.

Use this bar code to indicate a "good read" after a • bar code has been successfully decoded.



#### LED/Beep before transmission

Use this bar code to indicate a good read" after successfully transmitting the bar code data to the host.



0ms	Inter Character Delay	2m
5ms		10
20ms		50

าร

ms

ms





Handshaking Protocol
None handshaking
ACK/NAK
Xon/Xoff
RTS/CTS
Enable BEEPER ON <bel> CHARACTER</bel>
Ignore BEEP ON <bel> CHARACTER</bel>
Disable ACK/NAK timeout beeper
Enable ACK/NAK timeout beeper(three sound beeper sound)
ACK/NAK response time 300ms
ACK/NAK response time 2s
ACK/NAK response time 500ms
ACK/NAK response time 3s
ACK/NAK response time 1s
ACK/NAK response time 5s
ACK/NAK response time infinity





Message Terminator RS-232 message terminator—none RS-232 message terminator—CR/LF RS-232 message terminator—C RS-232 message terminator—LF

RS-232 message terminator—H tab

RS-232 message terminator—STX/ETX

RS-232 message terminator—EOT

#### Keyboard Wedge Setting



2.

Keyboard Wedge Setting IBM PC/AT/PS/2 Keyboard emulation

International Keyboard mode.( ALT method).

Keyboard language support---USA

Keyboard language support---UK send scan code

Keyboard language support---GERMANY

Keyboard language support---FRENCH send scan code





#### Keyboard Wedge Setting (continued)

Keyboard language support---SPANISH send scan code

Keyboard language support---ITALIAN send scan code

Keyboard language support---Switzerland send scan code

Keyboard language support---Belgium send scan code

Keyboard language support---Japanese

Capital lock on

Capital lock off

Function key emulation enable

Function key emulation disable

Send number as normal data

Send number as keypad data

Message Terminator Keyboard terminator---none

Keyboard terminator---Enter

Keyboard terminator---H-TAB







#### 3. USB Interface Setting

#### USB interface

International Keyboard mode.( ALT method).



Keyboard language support---GERMANY

Keyboard language support---FRENCH send scan code

Keyboard language support---SPANISH send scan code

Keyboard language support---Japanese

Message Terminator Keyboard terminator---none

Keyboard terminator---Enter

Keyboard terminator---H-TAB







#### 4. Wand Emulation Setting

Wand emulation is not supported as standard, if needed, please contact your distributor.



#### Wand Emulation

All barcode will be decoded and transmitted in that symbology

Enable Wand output data format as CODE39

#### Wand emulation data output black=high

- Scan this bar code to set quiet zones and spaces low and bars =high.
- Wand emulation data output black=low
- Scan this bar code to set quiet zones and spaces high and bars=low
- Idle = high
- Idle state refers to the TTL logic level of the Wand Emulation signal when not in use
- Idle = low
- Idle state refers to the TTL logic level of the Wand Emulation signal when not in use

Wand emulation speed-----Low

- This option allows the transmission of wand emulation at 1ms narrow element width
- Wand emulation speed-----medium
- This option allows the transmission of wand emulation at 600us narrow element width Wand emulation speed-----normal

Wand emulation speed-----high

- This option allows the transmission of wand emulation at 300us narrow element width
- Wand emulation speed-----higher
- This option allows the transmission of wand emulation at 100 us narrow element width Wand emulation narrow/wide ratio 1:2

Wand emulation narrow/wide ratio 1:3



#### The Symbologies



**CODABAR Parameter Setting** 

Codabar enable

CODABAR disable

Codabar start/stop character transmission-----none

Codabar start/stop character transmission-----A,B,C,D

Codabar start/stop character transmission-----DC1~DC4

Codabar start/stop character transmission----a/t,b/n,c/\*,d/e

Codabar maximum length setting

Codabar minimum length setting

Save setting to confirm (for length setting)



Codabar concatenation disable

Codabar concatenation enable

No check character

Validate modulo 16,but don't transmit





#### **CODABAR Parameter Setting (continued)**

Validate modulo 16 and transmit

Codabar data redundant check=off

Codabar data redundant check=1

Codabar data redundant check=2

Code 39 Parameter Setting Code 39 enable

Code 39 disable

Code 32 enable

Code 32 disable

Code 39 data redundant check=off

Code 39 data redundant check=1

Code 39 data redundant check=2

Standard code 39

FULL ASCII code 39

Code 39 start/stop character transmission











Code 93 check digit calculate and transmit



#### Start Of Configuration





**Code 128** Code 128 enable Code 128 disable EAN 128 enable EAN 128 disable Code 128 data redundant check=off Code 128 data redundant check=1 Code 128 data redundant check=2 Code128 FNC2 concatenation enable Code128 FNC2 concatenation disable No check character Calculate but not transmitted

Save setting to confirm (for length setting)



Code 128 maximum length setting

Code 128 minimum length setting







Chinese Post Code Chinese post code enable Chinese post code disable Chinese post codedata redundant check=off Chinese post code data redundant check=1 Chinese post code data redundant check=2 Chinese post code maximum length setting

Chines post code code minimum length setting

Save setting to confirm (for length setting)



**MSI/PLESSY** 

MSI enable

MSI disable

MSI data redundant check= off

MSI data redundant check=1

MSI data redundant check=2

MSI/PLESSY maximum length setting

MSI/PLESSY minimum length setting

Save setting to confirm (for length setting)







#### **MSI/PLESSY** (continued)

MSI/Plessy double check digit calculate but not transmit

MSI/Plessy double check digit without calculate and transmit

MSI/Plessy double check digit calculate but only first digit transmit

MSI/Plessy double check digit calculate and both transmit

MSI/Plessy single check digit calculate but without transmit

MSI/Plessy single check digit calculate and transmit

## 

#### ITF 2 of 5

ITF 2 of 5 enable

ITF 2 of 5 disable

IATA code enable

#### IATA disable

ITF 25 data redundant check=off

ITF25 data redundant check=1

ITF25 data redundant check=2

ITF 2 of 5 code maximum length setting







ITF 2 of 5 (continued)

ITF 2 of 5 code minimum length setting

ITF 2 of 5 no check character

ITF 2 of 5 check digit calculate and transmit

ITF 2 of 5 check digit calculate but without transmit

ITF 2 of 5 one Fixed length setting

ITF 2 of 5 two Fixed length setting

ITF 2 of 5 length variable

Save setting to confirm (for length setting)



UPC/EAN/JAN EAN convert toISSN/ISBN enable

EAN convert to ISSN.ISBN disable

UPC/EAN/JAN enable

UPC/EAN/JAN disable

UPC/EAN/JAN ALL ENABLE

EAN-8 OR EAN-13 ENABLE

UPC-A AND EAN-13 ENABLE







**UPC/EAN/JAN** (continued) UPC-A AND UPC-E ENABLE **UPC-A ENABEL UPC-E ENABLE** EAN-13 ENABLE EAN-8 ENABEL UPC/EAN Addendum Disable Add on 5 only Add on 2 only Add on 2 or 5 Force UPC-E to UPC-A format enable Force UPC-E to UPC-A format disable Force UPC-A to EAN-13 format enable Force UPC-A to EAN-13 format disable Transmit UPC-A check digit enable Transmit UPC-A check digit disable Transmit UPC-E leading character enable



UPC/EAN/JAN (continued) Transmit UPC-E leading character disable

Transmit UPC-E check digit enable

Transmit UPC-E check digit disable

Transmit EAN-8 check digit enable

Transmit EAN-8 check digit disable

Transmit EAN-13 check digit enable

Transmit EAN-13 check digit disable

Transmit UPC-A leading character enable

Transmit UPC-A leading character disable

Add-on format with separator

Add-on format without separator

EAN/UPC +add-on (none mandatory)

EAN/UPC +add-on (mandatory)

EAN/UPC +add-on mandatory for 378/379 French Supplement requirement, not sent for other

EAN/UPC +add-on mandatory for 978/977 (bookland) Supplement requirement, not sent for other



#### **UPC/EAN/JAN** (continued)

EAN/UPC +addon mandatory for 434/439 German Supplement requirement, optionally for other

EAN/UPC +addon mandatory for 419/414 Euro amounts Supplement requirement, not sent for other

EAN/UPC +addon mandatory for 414/419 Euro Supplement requirement, optionally for other

EAN/UPC +addon mandatory for 491 Japanese (bookland) Supplement requirement, not sent for other

EAN/UPC +addon mandatory 491 Japanese (bookland) Supplement requirement, optionally for other

Disable all EAN/OPC + Add-on mandatory for specific country code

force EAN-8 to EAN-13 format enable

#### force EAN-8 to EAN-13 format disable

EAN/UPC +add-on mandatory for 414/419/378/379/978/977/434/439/529/ Euro Supplement requirement, optionally for other EAN/UPC +add-on mandatory for 414/419/378/379/978/977/434/439/529/ Euro Supplement requirement, not sent for other

EAN-13 country code first "0" can transmitted

EAN-13 country code first:"0" can't transmitted





#### Addendum Seek Timeout

Note: A higher timeout value setting offer more assurance that an addendum has been read correctly while a lower setting allows faster scanning performance.

Addendum seek timeout value=1 Addendum seek timeout value=2 Addendum seek timeout value=3 Addendum seek timeout value=4 Addendum seek timeout value=5 Addendum seek timeout value=6 Addendum seek timeout value=7 Addendum seek timeout value=8 Addendum seek timeout value=9 Addendum seek timeout value=10 2 digit addendum data redundant check=off 2 digit addendum data redundant check=1 2 digit addendum data redundant check=2 2 digit addendum data redundant check=3 5 digit addendum data redundant check=off





#### Data Editing



#### Addendum Seek Timeout (continued)

5 digit addendum data redundant check=1

5 digit addendum data redundant check=2

5 digit addendum data redundant check=3

#### Identifier Code Disable identifier code

Enable identifier code table as ZEBEX standard

Enable identifier code table as AIM standard.

CODE 39 identifier code setting

ITF 2 of 5 identifier code setting

CHINESE POST CODE identifier code setting

UPC-E identifier code setting

UPC-A identifier code setting

EAN-13 identifier code setting

EAN-8 identifier code setting





Identifier Code (continued) CODABAR identifier code setting

CODE 128 identifier code setting

CODE 93 identifier code setting

MSI identifier code setting

Save setting to confirm (for length setting)



Add code length as header enable (2 Bytes)

Add code length as header disable (2 Bytes)



Header And Trailer Header (Preamble)

Trailer (Postamble)

Truncate header character

Truncate trailer character





Code 39	ASCII	Hexa- code	Code 39	ASCII	Hexa- code
	Full ASCIINUL	00		Full ASCIISI Function key"Shift"	0F
	Full ASCIISOH Function key"Ins"	01		Full ASCIIDLE Function key"5(num)"	10
	Full ASCIISTX Function key"Del"	02		Full ASCIIDC1 Function key"F1"	11
	Full ASCIIETX Function key"Home"	03		Full ASCIIDC2 Function key"F2"	12
	Full ASCIIEOT Function key"End"	04		Full ASCIIDC3 Function key"F3"	13
	Full ASCIIENQ Function key"Up arrow"	05		Full ASCIIDC4 Function key"F4"	14
	Full ASCIIACK Function key "Down arrow"	06		Full ASCIINAK Function key"F5"	15
	Full ASCIIBEL Function key"Left	07		Full ASCIISYN Function key"F6"	16
	Full ASCIIBS Function key "Backspace"	08		Full ASCIIETB Function key"F7"	17
	Full ASCIIHT Function key "TAB"	09		Full ASCIICAN Function key"F8"	18
	Full ASCIILF Function key"Enter (alpha numeric"	0A		Full ASCIIEN Function key"F9"	19
	Full ASCIIVT Function key"right arrow"	0B		Full ASCIISUB Function key"F10"	1A
	Full ASCIIFF Function key"PgUp"	0C		Full ASCIIESC Function key"F11"	1B
	Full ASCIICR Function key "Enetr(num.)"	0D		Full ASCIIFS Function key"F12"	1C
	Full ASCIISO Function key"PgDn"	0E		Full ASCIIGS Function key"ESC"	1D





Code 39	ASCII	Hexa- code	Code 39	ASCII	Hexa- code
	Full ASCIIRS Function key"CTL(L)"	1E		Full ASCII	2D
	Full ASCIIUS Function key"ALT(L)"	1F		Full ASCII	2E
	Full ASCIISP	20		Full ASCII/	2F
	Full ASCII!	21		Full ASCII0	30
	Full ASCII"	22		Full ASCII1	31
	Full ASCII#	23		Full ASCII2	32
	Full ASCII\$	24		Full ASCII3	33
	Full ASCII%	25		Full ASCII4	34
	Full ASCII&	26		Full ASCII5	35
	Full ASCII'	27		Full ASCII6	36
	Full ASCII (	28		Full ASCII7	37
	Full ASCII)	29		Full ASCII8	38
	Full ASCII*	2A		Full ASCII9	39
	Full ASCII+	2B		Full ASCII:	3A
	Full ASCII,	2C		Full ASCII;	3B





Code 39	ASCII	Hexa- code	Code 39	ASCII	Hexa- code
	Full ASCII<	3C		Full ASCIIK	4B
	Full ASCII=	3D		Full ASCIIL	4C
	Full ASCII>	3E		Full ASCIIM	4D
	Full ASCII?	3F		Full ASCIIN	4E
	Full ASCII@	40		Full ASCIIO	4F
	Full ASCIIA	41		Full ASCIIP	50
	Full ASCIIB	42		Full ASCIIQ	51
	Full ASCIIC	43		Full ASCIIR	52
	Full ASCIID	44		Full ASCIIS	53
	Full ASCIIE	45		Full ASCIIT	54
	Full ASCIIF	46		Full ASCIIU	55
	Full ASCIIG	47		Full ASCIIV	56
	Full ASCIIH	48		Full ASCIIW	57
	Full ASCIII	49		Full ASCIIX	58
	Full ASCIIJ	4A		Full ASCIIY	59





Code 39	ASCII	Hexa- code	Code 39	ASCII	Hexa- code
	Full ASCIIZ	5A		Full ASCIIi	69
	Full ASCII[	5B		Full ASCIIj	6A
	Full ASCII\	5C		Full ASCIIk	6B
	Full ASCII]	5D		Full ASCIII	6C
	Full ASCII^	5E		Full ASCIIm	6D
	Full ASCII	5F		Full ASCIIn	6E
	Full ASCII`	60		Full ASCIIo	6F
	Full ASCIIa	61		Full ASCIIp	70
	Full ASCIIb	62		Full ASCIIq	71
	Full ASCIIc	63		Full ASCIIr	72
	Full ASCIId	64		Full ASCIIs	73
	Full ASCIIe	65		Full ASCIIt	74
	Full ASCIIf	66		Full ASCIIu	75
	Full ASCIIg	67		Full ASCIIv	76
	Full ASCIIh	68		Full ASCIIw	77





Code 39	ASCII	Hexa- code
	Full ASCIIx	78
	Full ASCIIy	79
	Full ASCIIz	7A
	Full ASCII{	7B
	Full ASCII	7C
	Full ASCII}	7D
	Full ASCII~	7E
	Full ASCIIDEL	7F



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