MK-5800BT

Bluetooth Photo Imager Barcode-Scanner Konfigurations-Anleitung

V1.1

Table of Contents

1 Erste Schritte

1.1 Über diese Anleitung

Diese Anleitung enthält Programmieranweisungen für den MK-5800BT 2D Barcoder Reader. Benutzer können den MK-5800BT 2D Barcoder Reader durch Scannen der in diesem Handbuch enthaltenen Programmierbarcodes konfigurieren.

1.2 Auslieferungszustand herstellen

Scannen Sie den nachfolgenden Barcode mit dem MK-5800BT für die Standard-Einstellungen.

0D0100.

Alle Werkseinstellungen wiederherstellen

1.3 Verbinden der Station:

1. Scan "Einstellung konfigurieren"

2. Scan "Umschalten auf SPP/Serielle Emulation "

3. Scan "Beenden der vorherigen Verbindung."

4. Scan "Barcode auf der Unterseite der Station - BT Address barcode"

5. Scan "Neu verbinden"

6. Scan "Speichern der BT SPP Einstellung"

7. Scan " Beenden der BT SPP Einstellung"

Für Apple-Geräte die IOS-Übertragung aktivieren, andere Geräte IOS-Übertragung deaktivieren..

Aktivieren für IOS-Geräte

Android, PC und Andere.

1.4 Pairing Smart Phone , Table PC

1. Scan "Einstellung konfigurieren"

2. Scan "Umschalten auf >HID-Tastatur Emulation "

3. Scan "Beenden der vorherigen Verbindung."

4. Scan " BT für andere Geräte sichtbar"

5. Scan " Speichern der HID-Tastatur-Einstellung"

6. Scan " Beenden der HID-Tastatur-Einstellung"

Für Apple-Geräte die IOS-Übertragung aktivieren, andere Geräte IOS-Übertragung deaktivieren..

Aktiviere iOS Verbindung

Deaktiviere iOS Verbindung

iPhone/iPad Touch Tastatur.

BT Funktion in iPad oder Smartphone aktivieren, danach nach dem Eintrag BT (NVC_MD_CS45) suchen um den Scanner zu verbinden.

2 Schnittstellen-Einstellung der Station

2.1 Station USB HID - Tastaturausgabe

USB HID-KB (Standard)

2.2 Station USB COM Port Emulation Ausgabe

USB COM Port Emulation

2.3 USB Länder-Sprachen-Einstellung

Tastaturlayouts variieren von Land zu Land. Die Voreinstellung ist 1-U.S. Tastatur

USA

Germany

Italy

France

Spain

Japan

Czech

Denmark

Belgium

Finland

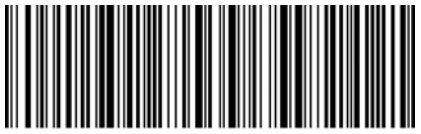
Dutch

Hungary

Finlan
d

2.4 Zeichen-Konvertierung

Scannen Sie den entsprechenden Barcode unten, um die Barcode-Daten wie gewünscht zu konvertieren.



Keine Zeichen-Konvertierung (Standard)

Ausgabe der Zeichen in Großbuchstaben

Ausgabe der Zeichen in Kleinbuchstaben

Beispiel: Wenn die Option “Ausgabe der Zeichen in Kleinbuchstaben” aktiviert ist, werden die Barcode-Daten “AbC” als “abc” übertragen.”

3 General Konfiguration

3.1 Tasten-Modus

Manueller Tastenmodus – Normal (Standard)

Manueller Tastenmodus – Cellphone

3.2 Dauerlesen Modus

Hiermit stellen Sie den Scanner in den Dauerlesen-Modus, ohne Tastendruck

090901.

Dauerlesen Modus – Normal

090902.

Dauerlesen Modus - Cellphone

090903.

Dauerlesen Modus – Continue Scan

3.3 Negative Darstellung von Barcodes

024B000.

Deaktivieren (Standards)

024B001.

Nur Lesen von negativ gedruckten Barcodes

024B002.

Lesen von Standard und negativ gedruckten Barcodes

3.4 Stromsparmodus

5 min

10 min

30 min

Immer an

3.5 Tonausgabe beim erfolgreichen Lesen

Aktivieren (Standard)

Deaktiviert

3.6 Lautstärke

Leise

Medium

Laut (Standard)

3.7 Dauer der Tonausgabe

Normal (Standard)

Kurz

3.8 Art der Tonausgabe

1 (Standard)

2

3

3.9 Verzögerung beim erneuten Lesen von Barcodes

Keine Verzögerung (Standard)

Verzögerung von 500 MS

Verzögerung von 2000 MS

4 Zeichen-Formatierung

4.1 Generelle Einstellung


090200.

Nach dem Barcode ein CR/Zeilenschaltung


090202.

Nach dem Barcode ein LF/Linefeed


090300.

Nach dem Barcode CR+LF


090201.

Nach dem Barcode ein TAB

4.2 Hinzufügen von Prefix-Zeichen - Ausgabe vor dem Barcode

080400.

Eigene Prefix-Zeichen programmieren

0D0400.

Speichern

0D0500.

Nicht speichern

Um eigene Prefix Zeichen festzulegen, scannen Sie den Barcode “Eigene Prefix-Zeichen programmieren” und die Hexadezimalen Zahlen im Anhang des ensprechenden Zeichens- paarweise, danach den Barcode “Speichern” Die Tabelle der Zeichen finden Sie im Anhang in der Hexadezimalen Tabelle.

Beispiel um die Zeichen “ODE” vor der Ausgabe des Barcodes zu programmieren

1. Finden Sie die HEX-Werte “ODE” in der ASCII Tabelle. (“ODE”: 4F, 44, 45)
2. Lesen des Barcodes”Eigene Prefix-Zeichen programmieren”.
3. Lesen Sie die numerischen Barcodes”9”,”9”, “4”, “F”, “4”, “4”, “4” and “5”im Anhang 3 .
4. Lesen Sie den Barcode Speichern.

4.3 Hinzufügen von Suffix-Zeichen - Ausgabe nach dem Barcode

Eigene Suffix-Zeichen programmieren

Speichern

Nicht speichern

Um eigene Suffix Zeichen festzulegen, scannen Sie den Barcode “Eigene Prefix-Zeichen programmieren” und die Hexadezimalen Zahlen im Anhang des ensprechenden Zeichens- paarweise, danach den Barcode “Speichern” Die Tabelle der Zeichen finden Sie im Anhang in der Hexadezimalen Tabelle.

Beispiel um die Zeichen “ODE” nach der Ausgabe des Barcodes zu programmieren

1. Finden Sie die HEX-Werte “ODE” in der ASCII Tabelle. (“ODE”: 4F, 44, 45)
2. Lesen des Barcodes ”Eigene Suffix-Zeichen programmieren”.
3. Lesen Sie die numerischen Barcodes”9”,”9”, “4”, “F”, “4”, “4”, “4” and “5”im Anhang 3 .
4. Lesen Sie den Barcode Speichern.

4.4 Alle Prefix und Suffix Zeichen löschen

Alle Prefix und Suffix Zeichen löschen (Standard)

5 Symbologies/Barcodes

5.1 Generelle Einstellung

5.1.1 Zurücksetzen der Werkseinstellung der Barcode-Einstellungen

Zurücksetzen Symbology auf Standard

Symbologies Barcodes Aktiviert:

Code 128, Code 39, UPC, EAN, Interleaved 2 of 5, Code 93, Coda Bar, GS1-128, DataMatrix, PDF417, QR, Maxi Code, Aztec.

5.1.2 Optimierungen der persönlichen Barcode-Einstellungen

Einstellungen für die meisten Anwendungen zum ‘Aktivieren dieser Barcodes.

Symbologies Enable:

UPC, EAN, Code128, QR, PDF417.

Nur diese Barcodes aktivieren

5.1.3 Aktivieren/Deaktivieren aller Barcodes

Wenn die Option “Deaktivieren von allen Barcodes” aktiv ist, kann der Scanner nur noch die Programmierbarcodes lesen, keine anderen Barodes. Macht Sinn, um einzelne Barcodes danach zu aktivieren.

Lesen von allen Barcodes

Deaktivieren von allen Barcodes

5.2 1D Barcodes/Symbologies

5.2.1 Code 128

Enable/Disable Code 128

Enable Code 128 (Standard)

Disable Code 128

Message Length

Message length can be set to the maximum value or minimum value. The value between the maximum and the minimum is valid.

The maximum value and minimum value can be set using “Programming Command”. Please check the programming command guide for the detail.

Code 128 max length command: 020A03. The parameter of this command can be set from min to 90.

Code 128 min length command: 020A02. The parameter of this command can be set from 0 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command: Max: 020A0325 ; Min: 020A0210.

5.2.2 EAN-8

Enable/Disable EAN-8

0214011.

Enable EAN-8 (Standard)

0214010.

Disable EAN-8

Transmit Check Digit

EAN-8 is 8 digits in length with the last one as its check digit used to verify the accuracy of the data.

0214021.

Transmit EAN-8 Check Digit (Standard)

0214020.

Do Not Transmit EAN-8 Check Digit

Add-On Code

An EAN-8 barcode can be augmented with a two-digit or five-digit add-on code to form a new one. In the examples below, the part surrounded by blue dotted line is an EAN-8 barcode while the part circled by red dotted line is add-on code.

0214031.

Enable 2-Digit Add-On Code

0214030.

Disable 2-Digit Add-On Code (Standard)

0214041.

Enable 5-Digit Add-On Code

0214040.

Disable 5-Digit Add-On Code (Standard)

Add-On Code Required

0214051.

EAN-8 Add-On Code Required

0214050.

EAN-8 Add-On Code Not Required (Standard)

ENA/JAN-8 Addenda Separator

When this feature is enabled, there is a space between barcode and addenda. When this feature is disabled, there is no space.

0214061.

Enable ENA/JAN-8 Addenda Separator (Standard)

0214060.

Disable ENA/JAN-8 Addenda Separator UPC

5.2.3 EAN-13

Enable/Disable EAN-13

0213011.

Enable EAN-13 (Standard)

0213010.

Disable EAN-13

Transmit Check Digit

0213021.

Transmit EAN-13 Check Digit (Standard)

0213020.

Do Not Transmit EAN-13 Check Digit

Add-On Code

0213031.

Enable 2-Digit Add-On Code

0213030.

Disable 2 Digit Add On Code (Standard)

Enable 5-Digit Add-On Code

Disable 5-Digit Add-On Code (Standard)

Add-On Code Required

EAN-13 Add-On Code Required

EAN-13 Add-On Code Not Required (Standard)

ENA/JAN-13 Addenda Separator

When this feature is enabled, there is a space between barcode and addenda. When this feature is disabled, there is no space.

Enable ENA/JAN-13 Addenda Separator (Standard)

Disable ENA/JAN-13 Addenda Separator

ISBN Translate

When enable this feature and is scanned, ENA-13 Book land symbols are translated into their equivalent ISBN number format.

Enable ISBN Translate

Disable ISBN Translate (Standard)

5.2.4 UPC-E

Enable/Disable UPC-E0/E1

Enable UPC-E0 (Standard)

Disable UPC-E0

Enable UPC-E1

Disable UPC-E1 (Standard)

UPC-E0 Check Digit

Enable UPC-E0 Check Digit (Standard)

Disable UPC-E0 Check Digit

UPC-E0 Expand

UPC-E0 expand expands the UPC-E code to the 12 digits, UPC-A format.

Enable UPC-E0 Expand

Disable UPC-E0 Expand (Standard)

UPC-E0 Addenda Required

When required is scanned, the scanner will only read UPC-E barcodes that have addenda.

Enable UPC-E0 Required

Disable UPC-E0 Required (Standard)

UPC-E0 Addenda Separator

Enable UPC-E0 Separator (Standard)

Disable UPC-E0 Separator

UPC-E0 Number System

The number system digit of UPC symbol is normally transmitted at the beginning of the scanned data, but the unit can be programmed so it will be not transmitted.

Enable UPC-E0 Number System (Standard)

Disable UPC-E0 Number System

UPC-E0 Addenda

Enable 2 Digit Addenda

Disable 2 Digit Addenda (Standard)

Enable 5 Digit Addenda

Disable 5 Digit Addenda (Standard)

5.2.5 UPC-A

Enable/Disable UPC-A

Enable UPC-A (Standard)

Disable UPC-A

UPC-A Check Digit

Enable UPC-A Check Digit (Standard)

Disable UPC-A Check Digit

UPC-A Addenda Required

When required is scanned, the scanner will only read UPC-E barcodes that have addenda.

Enable UPC-A Required

Disable UPC-A Required (Standard)

UPC-A Addenda Separator

Enable UPC-A Separator (Standard)

Disable UPC-A Separator

UPC-A: Number System

The number system digit of UPC symbol is normally transmitted at the beginning of the scanned data, but the unit can be programmed so it will be not transmitted.

Enable UPC-A Number System (Standard)

Disable UPC-A Number System

UPC-A: Addenda

Enable 2 Digit Addenda

Disable 2 Digit Addenda (Standard)

Enable 5 Digit Addenda

Disable 5 Digit (Standard)

5.2.6 Interleaved 2 Of 5

Enable/Disable Interleaved 2 Of 5

Enable Interleaved 2 Of 5 (Standard)

Disable Interleaved 2 Of 5

Message Length

Message length can be set to the maximum value, minimum value. The data between the maximum and the minimum is valid.

The maximum value and minimum value can be set using Programming Command. Please check the programming command guide for the detail.

Interleaved 2 of 5 max length command: 020404. The parameter of this command can be set from min to 80.

Interleaved 2 of 5 min length command: 020403. The parameter of this command can be set from 2 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command: Max: 02040425 ; Min: 02040310.

Interleaved 2 Of 5 Check Digit

No Check Char (Standard)

Validate And Transmit

Validate Not Transmit

5.2.7 Matrix 2 Of 5

Enable/Disable Matrix 2 Of 5

Enable Matrix 2 Of 5

Disable Matrix 2 Of 5 (Standard)

Message Length

Message length can be set to the maximum value, minimum value. The value is valid between the maximum and the minimum.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

Matrix 2 of 5 max length command: 020803. The parameter of this command can be set from min to 80.

Matrix 2 of 5 min length command: 020802. The parameter of this command can be set from 1 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command: Max: 02080325 ; Min: 02080210.

5.2.8 Industrial 2 Of 5

Enable/Disable Industrial 2 Of 5

Enable Industrial 2 Of 5

Disable Industrial 2 Of 5 (Standard)

Message Length

Message length can be set to the maximum value, minimum value. The value is valid between the maximum and the minimum.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

Industrial 2 of 5 max length command: 020603. The parameter of this command can be set from min to 48.

Industrial 2 of 5 min length command: 020602. The parameter of this command can be set from 1 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command: Max: 02060325 ; Min: 02060210.

5.2.9 Code 39

Enable/Disable Code 39

Enable Code 39 (Standard)

Disable Code 39

Transmit Start/Stop Character

Transmit Start/Stop Character

Do Not Transmit Start/Stop Character (Standard)

Code 39 Check Character

No Check Char (Standard)

Validate And Transmit

Validate No Transmit

Code 39 Append

This function allows the scanner to append several Code 39 barcode data together before transmitting to host. When the scanner encounters a Code 39 barcode with append character (ex. Space character), it buffers the data until it reads a Code 39 barcode which does not have append character. Then the data is transmitted in the order that the barcodes were read.

Enable Append

Disable Append (Standard)

Code 39 Full ASCII

Enable Code 39 Full ASCII

Disable Code 39 Full ASCII (Standard)

Message Length

Message length can be set to the maximum value, minimum value. The value is valid between the maximum and the minimum.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

Code 39 max length command: 020308. The parameter of this command can be set from min to 48.

Code 39 min length command: 020307. The parameter of this command can be set from 0 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command: Max: 02030825 ; Min: 02030710.

5.2.10 Coda Bar

Enable/Disable Coda Bar

Enable Coda Bar (Standard)

Disable Coda Bar

Message Length

Message length can be set to the maximum value, minimum value. The data between the maximum and the minimum is valid.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

Coda bar max length command: 020206. The parameter of this command can be set from min to 60.

Coda bar min length command: 020205. The parameter of this command can be set from 2 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command: Max: 02020625 ; Min: 02020510.

Transmit Start/Stop Character

Transmit Start/Stop Character

Do Not Transmit Start/Stop Character (Standard)

Coda bar Check Character

No Check Char (Standard)

Validate And Transmit

Validate No Transmit

5.2.11 Code 93

Enable/Disable Code 93

Enable Code 93 (Standard)

Disable Code 93

Message Length

Message length can be set to the maximum value, minimum value. The data between the maximum and the minimum is valid.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

Code 93 max length command: 020D03. The parameter of this command can be set from min to 80.

Code 93 min length command: 020D02. The parameter of this command can be set from 0 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command: Max: 020D0325 ; Min: 020D0210.

Code 93 Append

This function allows the scanner to append several Code 93 barcode data together before transmitting to host. When the scanner encounters a Code 93 barcode with append character (ex. Space character), it buffers the data until it reads a Code 93 barcode which does not have append character. Then the data is transmitted in the order that the barcodes were read.

Enable Code 93 Append

Disable Code 93 Append (Standard)

5.2.12 GS1-128

Enable/Disable GS1-128

Enable GS1-128 (Standard)

Disable GS1-128

Message Length

Message length can be set to the maximum value, minimum value. The data between the maximum and the minimum is valid.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

GS1-128 max length command: 020B03. The parameter of this command can be set from min to 80.

GS1-128 min length command: 020B02. The parameter of this command can be set from 0 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command: Max: 020B0325 ; Min: 020B0210.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

GS1-128 max length command: 020B03. The parameter of this command can be set from min to 80.

GS1-128 min length command: 020B02. The parameter of this command can be set from 0 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command: Max: 020B0325 ; Min: 020B0210.

5.2.13 MSI

Enable/Disable MSI

Enable MSI

Disable MSI (Standard)

Message Length

Message length can be set to the maximum value, minimum value. The data is valid between the maximum and the minimum.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

MSI max length command: 020E04. The parameter of this command can be set from min to 48.

MSI min length command: 020E03. The parameter of this command can be set from 4 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command: Max: 020E0425 ; Min: 020E0310.

MSI Check Character

020E021.

Validate Type10 Transmit

020E025.

Validate Type10 Then Type11 Char Transmit

020E024.

Validate Type10 Then Type11 Char NO Transmit

020E024.

Validate Type10 No Transmit

020E020.

Validate 2 Type10 No Transmit (Standard)

020E023.

Validate 2 Type10 Char Transmit

020E022.

Validate 2 Type10 Char No Transmit

020E026.

Disable MSI Check

5.2.14 Code 11

Enable/Disable Code 11

Disable Code 11 (Standard)

Enable Code 11

Code11 Check Digit(s)

One Check Digit

Two Check Digits (Standard)

5.3 2D Symbologies

5.3.1 PDF 417

Enable/Disable PDF 417

Enable PDF 417 (Standard)

Disable PDF 417

Enable/Disable Micro PDF 417

Enable Micro PDF 417

Disable Micro PDF 417 (Standard)

Message Length

Message length can be set to the maximum value, minimum value. The data is valid between the maximum and the minimum.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

PDF417 max length command: 021F06. The parameter of this command can be set from min to 2750.

PDF417 min length command: 021F05. The parameter of this command can be set from 1 to max. Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command: Max: 021F0625 ; Min: 021F0510.

5.3.2 QR Code

Enable/Disable QR Code

Enable QR Code (Standard)

Disable QR Code

Message Length

Message length can be set to the maximum value, minimum value. The data is valid between the maximum and the minimum is valid.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

QR max length command: 023703. The parameter of this command can be set from min to 7089.

QR min length command: 023702. The parameter of this command can be set from 1 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command: Max: 02370325 ; Min: 02370210.

QR Code Append

This function allows the scanner to append several QR barcode data together before transmitting to host. When the scanner encounters a QR barcode with append character (ex. Space character), it buffers the data until it reads a QR barcode which does not have append character. Then the data is transmitted in the order that the barcodes were read.

Enable QR Code Append (Standard)

Disable QR Code Append

5.3.3 Data Matrix

Enable/Disable Data Matrix

Enable Data Matrix (Standard)

Disable Data Matrix

Message Length

Message length can be set to the maximum value, minimum value. The data is valid between the maximum and the minimum.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

Data Matrix max length command: 023603. The parameter of this command can be set from min to 3116.

Data Matrix min length command: 023602. The parameter of this command can be set from 1 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command: Max: 02360325 ; Min: 02360210.

Data Matrix Code Page (Standard)

5.3.4 Maxi code

Enable/Disable Maxi code

Enable Maxi Code

Disable Maxi Code (Standard)

Message Length

Message length can be set to the maximum value, minimum value. The data is valid between the maximum and the minimum.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

Maxi Code max length command: 023403. The parameter of this command can be set from min to 150.

Maxi Code min length command: 023402. The parameter of this command can be set from 1 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command: Max: 02340325 ; Min: 02340210.

5.3.5 Aztec

Enable/Disable Aztec

Enable Aztec (Standard)

Disable Aztec

Message Length

Message length can be set to the maximum value, minimum value. The data is valid between the maximum and the minimum.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

Aztec max length command: 023306. The parameter of this command can be set from min to 3832.

Aztec min length command: 023305. The parameter of this command can be set from 1 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command: Max: 02330625 ; Min: 02330510.

Aztec Append

Enable Aztec Append (Standard)

Disable Aztec Append

5.3.6 Hanxin

Enable/Disable Hanxin

Enable Hanxin

Disable Hanxin (Standard)

Message Length

Message length can be set to the maximum value, minimum value. The data is valid between the maximum and the minimum.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

Hanxin max length command: 023803. The parameter of this command can be set from min to 7833.

Hanxin min length command: 023802. The parameter of this command can be set from 1 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command: Max: 02380325 ; Min: 02380210.

5.4 Postal Symbologies

5.4.1 China Postal Code

Enable/Disable China Postal Code

Enable China Postal Code

Disable China Postal Code (Standard)

5.4.2 Telepen

Enable/Disable Telepen

Enable China Telepen

Disable China Telepen (Standard)

6 Appendix

6.1 Appendix 1: ASCII Table

Hex	Dec	Char
00	0	NUL (Null char.)
01	1	SOH (Start of Header)
02	2	STX (Start of Text)
03	3	ETX (End of Text)
04	4	EOT (End of Transmission)
05	5	ENQ (Enquiry)
06	6	ACK (Acknowledgment)
07	7	BEL (Bell)
08	8	BS (Backspace)
09	9	HT (Horizontal Tab)
0a	10	LF (Line Feed)
0b	11	VT (Vertical Tab)
0c	12	FF (Form Feed)
0d	13	CR (Carriage Return)
0e	14	SO (Shift Out)
0f	15	SI (Shift In)
10	16	DLE (Data Link Escape)
11	17	DC1 (XON) (Device Control 1)
12	18	DC2 (Device Control 2)
13	19	DC3 (XOFF) (Device Control 3)
14	20	DC4 (Device Control 4)
15	21	NAK (Negative Acknowledgment)
16	22	SYN (Synchronous Idle)
17	23	ETB (End of Trans. Block)
18	24	CAN (Cancel)
19	25	EM (End of Medium)
1a	26	SUB (Substitute)
1b	27	ESC (Escape)
1c	28	FS (File Separator)
1d	29	GS (Group Separator)
1e	30	RS (Request to Send)
1f	31	US (Unit Separator)

Hex	Dec	Char
20	32	SP (Space)
21	33	! (Exclamation Mark)
22	34	" (Double Quote)
23	35	# (Number Sign)
24	36	$ (Dollar Sign)
25	37	% (Percent)
26	38	& (Ampersand)
27	39	` (Single Quote)
28	40	((Right / Closing Parenthesis)
29	41	) (Right / Closing Parenthesis)
2a	42	* (Asterisk)
2b	43	+ (Plus)
2c	44	, (Comma)
2d	45	- (Minus / Dash)
2e	46	. (Dot)
2f	47	/ (Forward Slash)
30	48	0
31	49	1
32	50	2
33	51	3
34	52	4
35	53	5
36	54	6
37	55	7
38	56	8
39	57	9
3a	58	: (Colon)
3b	59	; (Semi-colon)
3c	60	< (Less Than)
3d	61	= (Equal Sign)
3e	62	> (Greater Than)
3f	63	? (Question Mark)

Hex	Dec	Char
40	64	@ (AT Symbol)
41	65	A
42	66	B
43	67	C
44	68	D
45	69	E
46	70	F
47	71	G
48	72	H
49	73	I
4a	74	J
4b	75	K
4c	76	L
4d	77	M
4e	78	N
4f	79	O
50	80	P
51	81	Q
52	82	R
53	83	S
54	84	T
55	85	U
56	86	V
57	87	W
58	88	X
59	89	Y
5a	90	Z
5b	91	[(Left / Opening Bracket)
5c	92	\ (Back Slash)
5d	93	] (Right / Closing Bracket)
5e	94	^ (Caret / Circumflex)
5f	95	_ (Underscore)

6.2 Appendix 2: KB wedge character Table

Hex	Char	Hex	Char	Hex	Char
80	F1	81	F2	82	F3
83	F4	84	F5	85	F6
86	F7	87	F8	88	F9
89	F10	8A	F11	8B	F12
8C	L-Ctrl	8D	L-Shift	8E	L-Alt
8F	L-GUI	90	R-Ctrl	91	R-Shift
92	R-Alt	93	R-GUI	94	Caps Lock
95	Print Screen	96	Scroll Lock	97	Pause
98	Insert	99	Delete	9A	Home
9B	End	9C	Page Up	9D	Page Down
9E	Left Arrow	9F	Right Arrow	A0	Up Arrow
A1	Down Arrow	A2	Num Lock(keypad)	A3	1(keypad)
A4	2(keypad)	A5	3(keypad)	A6	4(keypad)
A7	5(keypad)	A8	6(keypad)	A9	7(keypad)
AA	8(keypad)	AB	9(keypad)	AC	0(keypad)
AD	/(keypad)	AE	*(keypad)	AF	-(keypad)
B0	+(keypad)	B1	Enter(keypad)	B2	.(keypad)
B3	Insert(keypad)	B4	Delete(keypad)	B5	Home(keypad)
B6	End(keypad)	B7	Page Up(keypad)	B8	Page Dn(keypad)
B9	Left Arrow(keypad)	BA	Right Arrow(keypad)	BB	Up Arrow(keypad)
BC	Down Arrow(keypad)				

6.3 Appendix 3: Digit Barcodes

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A

B

C

D

E

F