

TR-UMHW0006

**Tera**

**Model No.: HW0006**  
Wireless 2D Barcode Scanner

**User Manual**

Ver.04.1.01

# Attention

Scanner's working voltage 3.3V, charging voltage 5V.  
Please use the original connector to ensure the scanner  
works properly

Package contents: 1 Bar Code Scanner, 1 USB dongle, 1  
USB Cable, 1 User Manual

An asterisk (\*) next to an option indicates the default  
setting.

Scanners are factory programmed for the most common  
terminal and communications settings.

If you need to change these settings, programming is  
accomplished by scanning the barcodes in this manual.

Note: If there is no further setting command within  
20 seconds, the scanner will automatically exit the  
programming mode.

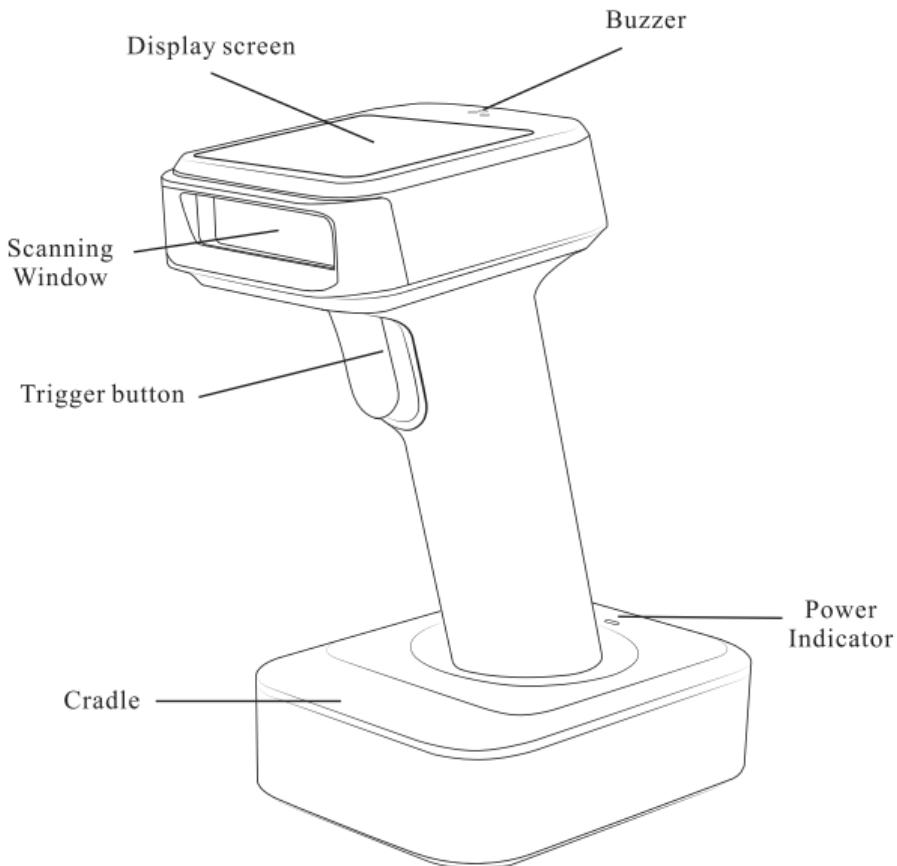
For correct and effective use of the product, please read  
this manual carefully and do not scan configuration  
barcodes at random. Some settings would otherwise be  
temporarily unavailable.

The scanner's keyboard layout default is a US keyboard.

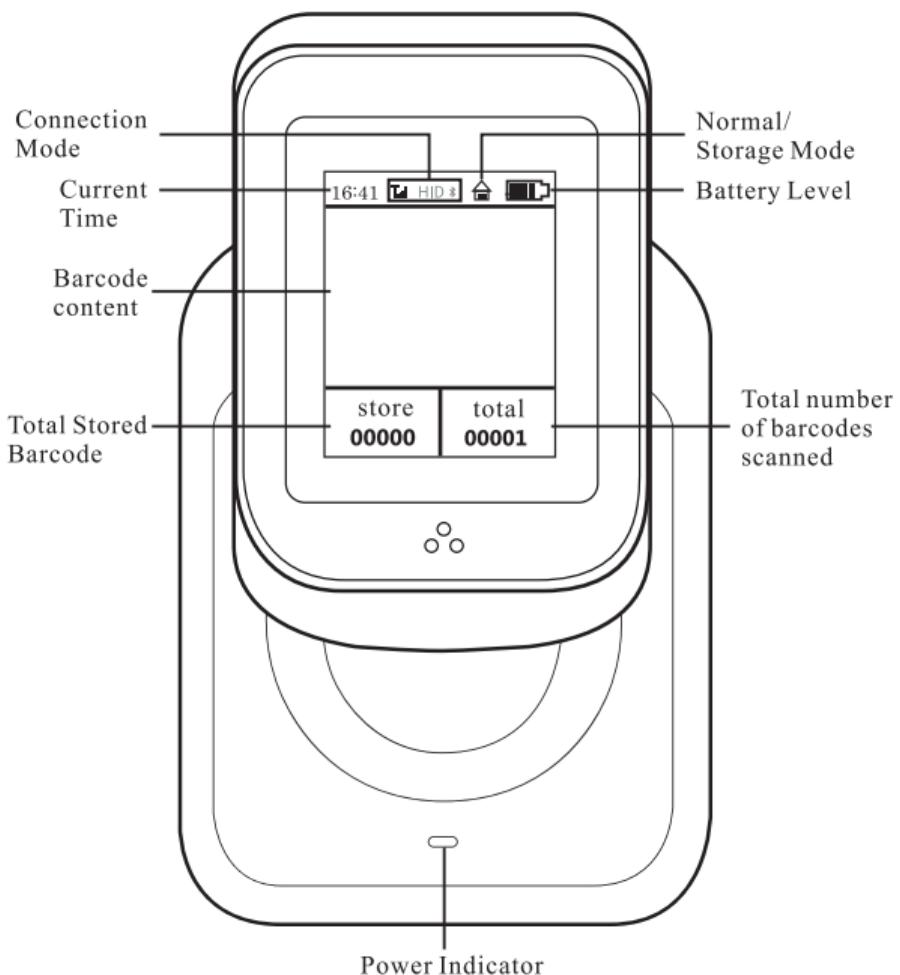
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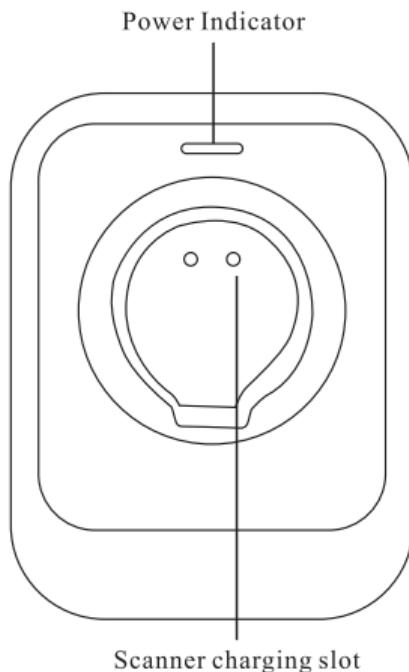
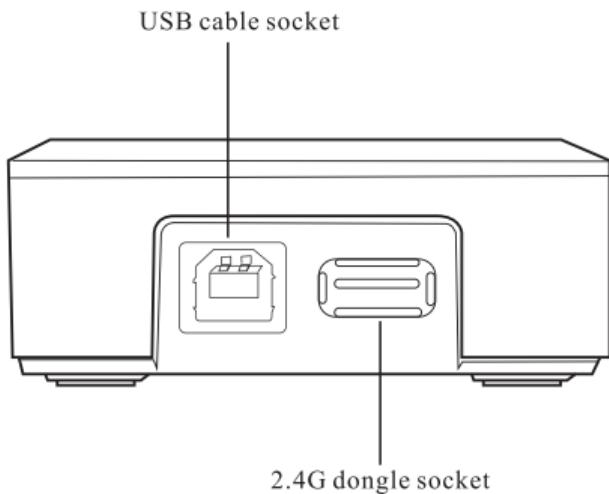
# Appearance Description



# Display screen description



## Side view of the cradle



# **Features**

- Smoothly switch between wired usb connection and wireless connection.
- One-click matching with various PC laptops.
- Outdoor wireless transmission distance up to 656ft unobstructed (through 2.4G wireless).
- Outdoor wireless transmission distance up to 98ft (through Bluetooth).
- Large storage capacity, safe and reliable.
- Up to 50,000 bar codes can be stored in Storage Mode.
- Switch between instant upload mode and storage mode freely.
- Support Windows XP, Win7, Win8, Win10, etc.
- Support Android, IOS devices.
- Support Bluetooth HID, SPP, BLE protocol.
- Unique power management system, long standby time.
- Support decoding large variety of barcodes.
- Durable trigger button, fitting perfect in your hand and comfortable to use.

# **Application**

\*Suitable for business (electrical appliances, books, clothing, medicine, cosmetics, etc.), retail, postal, telecommunications, warehousing, logistics, public security systems, customs system, banking system, medical system.

\*Compatible with Windows, Android, Linux, windows98 and other operation system. Plug and play, no driver needed. Compatible with all kinds of POS, laptop, cash registers, tax control machines, etc.

Compatible with all types of retail, invoicing, warehouse management and other third-party software.

\*Support many keyboard languages.

# **Specification**

Smoothly switch between wired usb connection and wireless connection

Wireless transmission protocol: 2.4G+Bluetooth

Memory: 16MB

CPU: ARM Cortex 32 bits

Bluetooth version: Bluetooth 4.1

Support Bar Code symbologies:

1D: Codabar, Code 11, Code93, MSI, Code 128, UCC/EAN-128, Code 39, EAN-8, EAN-13, UPC-A, ISBN, Industrial 25, Interleaved 25, Standard 25, 2/5 Matrix

2D: QR, PDF417, Data Matrix

Indicator: LED, buzzer, vibrator

Charging voltage/current: 5V/1A

Standby time: >30 days

# **Application environment**

Working temperature: 32°F-104° F/0°C-40°C

Storage temperature: -40°F-140°F/-40°C-60°C

Humidity: 5% to 95% relative humidity (no condensation)

Drop Test: Able to withstand impact from falling to concrete ground from 1.5 meters(5 feet) high.

Ambient light resistance: It will not be affected in normal office and factory lighting environments or directly exposed to sunlight.

Electrostatic discharge: meets 15kV air discharge and 8kV contact discharge requirements.

# **Relevant regulation**

Electrical safety: In accordance with UL1950, CSA C22.2 No.950, EN60950/IEC950 EMI/RFI:FCC Part 15 Class B,

European Union EMC Directive, Taiwan EMC

Environment: In accordance with RoHS compliant 2002/95/EEC

Scanner packed with an USB cable

The scanner will be charged as well as connected with the computer after plugging the USB cable into the PC.

The scanner has two modes: Wireless transmission mode and USB cable transmission mode.

After pressing the button to start the scanner, the scanner will automatically recognize whether the USB cable is connected. If the USB cable is recognized, the scanner will enter wired USB mode, and the data is transmitted via the USB cable automatically.

If the USB cable is not recognized, it will enter the wireless mode automatically and the data is transmitted via 2.4G wireless.

# **Factory Reset**

If scanner fails to operate due to faulty settings or other reasons, scan this bar code to restore factory settings.



Factory Reset



Version No.

## **Pair with PC, support XP, win7, win8, win10 (2.4G pairing steps)**

The scanner is plug and play, normally you don't need to scan any setup code to get the scanner pairs with the dongle because they pair automatically.

If they failed to pair automatically someday, please follow below steps to get them paired within 8 seconds after plugging in the dongle.

A: scan setup code “2.4G mode”



**2.4G mode**

B: scan setup code “Compulsory Pair with Dongle” to enter pair status, the left blue light flashes”



**Compulsory Pair with Dongle**

C: plug in the dongle, pairing succeeds when buzzer sounds “dee” and right blue light turns on.

Note: If enter pairing mode and the dongle is not detected with 1 minute, buzzer will emit 2 long deep sounds which indicates pairing failed, the scanner will return to scanning mode.

(Or pull button twice to exit pairing mode and return to scanning mode)

## **Pair with Android, iOS mobile phones or PC with Bluetooth function (Bluetooth pairing steps)**

### **Method 1**

A: start the scanner, press the button by 8 seconds, it will enter Bluetooth HID pair mode, the 2 blue lights flicker alternate.

B: open the Bluetooth function of your device, search “Barcode scanner HID”.

C: match the Bluetooth and enter paring mode.

D: it comes up the sound “di” after paired successfully, the right blue light turns on.

## **Method 2**

A. scan Bluetooth HID mode code



B. scan search Bluetooth code, enter pair mode, the 2 blue lights flicker alternate.



C: open the Bluetooth function of your device, search “Barcode scanner HID”.

D: match the Bluetooth and enter paring mode.

E: it comes up the sound “di” after paired successfully, the right blue light turns on.

## **Communication mode switching**



2.4G Mode



Bluetooth HID Mode



Bluetooth SPP Mode



Bluetooth BLE Mode

# **Android, iOS system keyboard activate or hide (Bluetooth transfer function)**

A: scan to activate or hide the corresponding keyboard.



Activate/hide the  
ISO keyboard



Double click to activate  
the ISO keyboard

Double click to h  
the ISO keyboa

## **Operating mode setting**

2 working mode under wireless mode: instant upload, storage mode  
Under instant upload mode, the data readout is uploaded to the computer directly. Buzzer will emit 1 low-frequency short sound which indicates the data is uploaded successfully. If failed, it will emit 3 low-frequency short sounds, the readout data will lost.



**Instant Upload Mode**

It's suggested to use storage mode if the scanner is working beyond the 2.4G transmission distance.

Under storage mode, all data readout will be stored in the internal memory.

To check the number of stored bar codes, scan “Total quantity of Stored Barcodes”. To upload stored bar codes to your computer, scan “Upload data”.

Under storage mode, each time a barcode is scanned successfully, buzzer will emit a short low frequency sound. If memory is full, buzzer will emit 3 short low frequency sound.



**Storage Mode**

Scan “Total quantity of Stored Barcodes” to see the barcode stored.



### Total quantity of Stored Barcodes

Scan “Upload data” to upload data to the computer, the stored barcodes will remain in memory after upload. To clear memory, scan “Clear Data”. Make sure stored barcodes have been uploaded before clearing memory.



### Upload data

Note: Make sure scanner is within transmission distance from dongle when uploading data.

Scan “Clear Data” to clear all stored barcodes, make sure the data upload successfully before clearing up the data.



### Clear Data

## Volume setting

Open/close sound or vibration setup codes



Open read sound



Close read sound



Vibration OFF



Vibration ON

# **Scanning mode**

## **1.Trigger mode**

Press button to scan. Scanning stops if a bar code is successful read or read time is exceeded.



## **2.Continuous Mode**

Scanning begins immediately. Scanning stops if a bar code is successful read or read time is exceeded. Scanner is then ready for the next bar code. No need to press the button.



Continuous Mode

## **3.Sensor Activated Mode**

When sensor detects a change in brightness, scanning will start. Scanning will stop after a successful read or scanning time exceeded. Scanner enters into detect brightness change mode regardless successfully or failed read last time. No need to press the button.



Sensor Activated Mode

## **Three levels of sensitivity are available**



High(Default)



Medium



Low

## **Transmission Speed (Adjust according to PC's reception speed)**



High



Medium



Low



Super Low

## **Sleep time Settings (time before scanner enters sleep mode)**



30sec



1 Minute



5 Minutes



30 Minutes



No sleep



Sleep Immediately

## **Language Selection**



Original type



\*GBK Data Encoding Format



Unicode



UTF



\*Japanese QR Setting

## Keyboard language setting

Method of changing the language

Scan the setup code “unicode”→“UTF”→“Language you need to change to”

If you want to change other languages not in this list, please contact our customer service to get the corresponding setup code.



English



Japanese

American Keyboard Output  
(PC only)

German



France



Spanish



Italian



GBK



UTF

## Terminator Settings

Choose the terminator you want to add



Add Carriage Return



Remove Carriage Return + Linefeed



Add Linefeed



Add TAB

## Upper / Lower Case Settings

When scanning bar codes that contain alphabets, use the following bar codes to configure upper or lower case.



No Change



All Upper Case



All Lower Case

For the safe and effective use of the product, please read this manual carefully before using the product. It is advisable to keep it for future reference.

The company reserves the right of final interpretation for this manual

If you need more technical support, please give us a call or send us an email. We are delighted to be of service to you.

## Symbology

### Command for all Symbologies



Read All Symbologies On



Read All Symbologies Off

## Command for All 1D Symbologies



Read All 1D Symbologies On



Read All 1D Symbologies Off

## Command for All 2D Symbologies



Read All 2D Symbologies On



Read All 2D Symbologies Off

## Code 128



Return to Code 128

## Default Settings



Code 128 On



Code 128 Off

## EAN-8



EAN-8 On



EAN-8 Off

## EAN-8 Addenda



Read 2-digit Addenda Off



Read 2-digit Addenda On



Read 5-digit Addenda Off



Read 5-digit Addenda On

## EAN-13



EAN-13 On



EAN-13 Off

## EAN-13 Addenda



Read 2-digit Addenda Off



Read 2-digit Addenda On



Read 5-digit Addenda Off



Read 5-digit Addenda On

## **UPCE0**



UPCE0 On



UPCE0 Off

## **UPCE1**



UPCE1 On



UPCE1 Off

## **UPCE1 Addenda**



Read 2-digit Addenda Off



Read 2-digit Addenda On



Read 5-digit Addenda Off



Read 5-digit Addenda On

## **UPC-A**



UPC-A On



UPC-A Off

## **UPC-A Addenda**



Read 2-digit Addenda Off



Read 2-digit Addenda On



Read 5-digit Addenda Off



Read 5-digit Addenda On

## **Interleaved 2 of 5**



Interleaved 2 of 5 On



Interleaved 2 of 5 Off

## **Matrix 2 of 5**



Matrix 2 of 5 On



Matrix 2 of 5 Off

## **Industrial 2 of 5**



Industrial 2 of 5 On



Industrial 2 of 5 Off

## IATA 2 of 5



IATA 2 of 5 On



IATA 2 of 5 Off

## Code 39



Code 39 On



Code 39 Off

## Code32



Code32 Off



Code32 On

## Full ASCII Code 39

Full ASCII Code 39 includes all of the character representations in ASCII. Scan the barcodes below to enable or disable the scanner to read barcodes containing Full ASCII character sets.



Full ASCII On



Full ASCII Off

## Codabar



Codabar On



Codabar On

## **Code 93**



Code 93 On



Code 93 Off

## **PDF 417**



PDF 417 On



PDF 417 Off

## **QR code**



QR code On



QR code Off

## **Data Matrix**



Data Matrix On



Data Matrix Off

## **Inverse Code**



Inverse Code On



Inverse Code Off

## **Save or Cancel**

The data scanned will only be saved when the scanner reads the “Save” code short after reading a barcode. If the scanner runs into problem when reading a barcode, you can make a cancellation of the reading besides reset.

For example, if the scanner reads the barcode: 123 and reads it in turn, a scan of the “Cancel 1-digit Previously Read” will make the output read 12 without the number 3, a scan of “Cancel Character String Previously Read” will output without 123, and “Cancel Current Setting” will even cancel the setting barcode command.



Save



Cancel 1-digit Previously Read



Cancel Character String  
Previously Read



Cancel Current Setting

Connect the scanner with the computer through USB cable, it will charge automatically. Note, the USB cable can be used for charging and scanning barcodes in the meantime



Show battery level

If you need other symbologies not listed here, please contact us.

## **Hide Prefix / Suffix**

A: scan “Hide Prefix” or “Hide Suffix”



Hide Prefix



Hide Suffix

B: select the number of digits you need to hide



Hide 1 digit



Hide 2 digits



Hide 3 digits



Hide 4 digit

Remark:

Note: To cancel prefix / suffix hiding, scan “Hide Prefix” or “Hide Suffix” again.

## **Prefix / Suffix Set Up**

A: Scan setup code “allow prefix” or “allow suffix”.



Allow Prefix



Allow Suffix

B. Select the character needed to be added as a prefix or suffix  
(appendix A)

Note: To cancel prefix/suffix already set up, scan “Allow Prefix” or  
“All Suffix” again.

## Add time as prefix or suffix (Date and Time stamp setting)

A. Scan “Add time as prefix” setup code to add current time before code



Add time as prefix

B. Scan “Add time as suffix” setup code to add current time after code



Add time as suffix

C. Scan “Cancel time as prefix or suffix” to cancel the output of  
current time before or after the barcode



Cancel time as prefix or suffix

## Real Time Update Setting

1. Press the trigger button to start up the scanner, connect the scanner with the computer through USB cable
2. Install the Update Time plug-in “Update\_time\_V1.0”
3. Open the Update Time plug-in and click the “Update Time” button to make the output time consistent with the time on your computer  
Please scan the following QR code to get the Update Time plug-in download link or type in the following download link to the browser.  
[https://www.dropbox.com/s/smhtklnw42xkxx/Update\\_time\\_V1.0\\_en.rar?dl=0](https://www.dropbox.com/s/smhtklnw42xkxx/Update_time_V1.0_en.rar?dl=0)



## Q & A

Commonly encountered problems

## **1.Bluetooth fails to connect in Android.**

Make sure your Android version is 3.0 or above.

## **2.Scanner is unable to scan some bar codes.**

Certain uncommon bar codes are not recognized by the scanner by default. Go into Settings and activate the bar code types you wish to scan. If you are unsure of the types, please consult the seller.

## **3.After pairing, scanned bar codes cannot be uploaded to computer or mobile phone.**

Certain uncommon bar codes are not recognized by the scanner by default. Go into Settings and activate the bar code types you wish to scan. If you are unsure of the types, please consult the seller.

## **4.After pairing, scanned bar codes cannot be uploaded to computer or mobile phone.**

- A. Make sure pairing is successful by checking for a blue LED indicator.
- B. Make sure scanner is not in Storage mode. In Storage mode, scanned bar codes will not be uploaded automatically. They can only be uploaded manually.
- C. Switch to instant upload mode. Simultaneously scanning and uploading should now be possible.

## **5.Computer or mobile phone cannot detect scanner by Bluetooth.**

Make sure the selected communication method is Bluetooth HID. Other methods require special testing tools. If you have such needs, please contact the seller.

## **6.Scanner has previously connected with computer or mobile phone by Bluetooth. How do I make the same connection again?**

Delete the old Bluetooth connection record and try again.

## **7.Reconnection is unsuccessful after unplugging and plugging in the dongle, or turning Bluetooth on and off.**

Make sure computer or mobile phone has not made connections with other devices, or that the scanner has not made connections with other computers or mobile phones. Reactivate the scanner and try again.

## **8.Connection unsuccessful after changing connection methods.**

Delete old Bluetooth connection record and try again.

## **9.How do I modify other scanner settings?**

Please contact the seller.

# Appendix A

## Control Character Chart

DEC	ASCII	Character Set 0	Character Set 1	Character Set 2	Character Set 3	Setting Code
1	SOH	NULL	Home	Ctrl+A	Alt+001	
2	STX	Ctrl+B	End	Ctrl+B	Alt+002	
3	ETX	Ctrl+C	Up Arrow	Ctrl+C	Alt+003	
4	EOT	NULL	Down Arrow	Ctrl+D	Alt+004	
5	ENQ	NULL	Left Arrow	Ctrl+E	Alt+005	
6	ACK	NULL	Right Arrow	Ctrl+F	Alt+006	
7	BEL	NULL	Shift+Tab	Ctrl+G	Alt+007	
8	BS	Back Space	Back Space	Back Space	Alt+008	
9	HT	Tab	Tab	Tab	Alt+009	
10	LF	Enter	Enter	Ctrl+P	Alt+010	

11	VT	NULL	NULL	Ctrl+Q	Alt+011	
12	FF	NULL	NULL	Ctrl+R	Alt+012	
13	CR	Enter	Enter	Enter	Alt+013	
14	S0	F1	Page Up	Ctrl+N	Alt+014	
15	S1	F2	Page Down	Ctrl+O	Alt+015	
16	DLE	F3	F11	Ctrl+P	Alt+016	
17	DC1	F4	NULL	Ctrl+Q	Alt+017	
18	DC2	F5	NULL	Ctrl+R	Alt+018	
19	DC3	F6	NULL	Ctrl+S	Alt+019	
20	DC4	F7	NULL	Ctrl+T	Alt+020	
21	NAK	F8	F12	Ctrl+U	Alt+021	

22	SYN	F9	F1	Ctrl+V	Alt+022	
23	TB	F10	F2	Ctrl+W	Alt+023	
24	CAN	F11	F3	Ctrl+X	Alt+024	
25	EM	F12	F4	Ctrl+Y	Alt+025	
26	SUB	NULL	F5	Ctrl+Z	Alt+026	
27	Esc	Esc	F6	Ctrl+[	Alt+027	
28	FS	ALT+028	F7	Ctrl+\	Alt+028	
29	GS	ALT+029	F8	Ctrl+]	Alt+029	
30	RS	NULL	F9	Ctrl+^	Alt+030	
31	US	NULL	F10	Ctrl+_	Alt+031	

# Appendix B

## Control Character Chart

DEC	ASCII	Setting Code
32	Space	
33	!	
34	"	
35	#	
36	\$	
37	%	
38	&	
39	'	
40	(	

41	)	
42	*	
43	+	
44	,	
45	-	
46	.	
47	/	
48	0	
49	1	

50	2	
51	3	
52	4	
53	5	
54	6	
55	7	
56	8	
57	9	
58	:	
59	;	

60	<	
61	=	
62	>	
63	?	
64	@	
65	A	
66	B	
67	C	
68	D	
69	E	

70	F	
71	G	
72	H	
73	I	
74	J	
75	K	
76	L	
77	M	
78	N	
79	O	

80	P	
81	Q	
82	R	
83	S	
84	T	
85	U	
86	V	
87	W	
88	X	
89	Y	

90	Z		100	d	
91	[		101	e	
92	\		102	f	
93	]		103	g	
94	^		104	h	
95	_		105	i	
96	`		106	j	
97	a		107	k	
98	b		108	l	
99	c		109	m	

110	n		120	x	
111	o		121	y	
112	p		122	z	
113	q		123	{	
114	r		124		
115	s		125	}	
116	t		126	~	
117	u		127	DEL	
118	v		128	Ç	
119	w		129	ç	

If you need any product support, please contact our customer service.

**Important Notice:** Please attach your Amazon Order Number and Product Model Number in the email.

### **Official Customer Service**

Email Addresses:

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