



ValueScan III

IDBB-4244MRB

Barcode Scanner

User Manual



80181501-001 Version: 1.4
December 20, 2019

Revision History

Changes to the user manual are listed below:

Version	Date	Description	Page #
1.0	2019/10/18	Initial release	
1.2	2019/11/20	Updated the specifications of the scanner	56
1.3	2019/12/02	Style update	
1.4	2019/12/20	Added Presentation Mode images	7

Regulatory Compliance

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

CAUTION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.



Note: All brands and trademarks are the property of their respective owners.

The specifications contained herein are subject to change without notice.

警告使用者:

這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

設備名稱：條碼閱讀器 Equipment name		型號（型式）：ValueScan III Type designation (Type)				
單元 Unit	限用物質及其化學符號 (Restricted substances and its chemical symbols)					
	鉛Lead (Pb)	汞Mercury (Hg)	鎘Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr ⁶⁺)	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
印刷電路板組件	—	○	○	○	○	○
機殼	○	○	○	○	○	○
線材	○	○	○	○	○	○
掃描模組	—	○	○	○	○	○
備考1. “○” 係指該項限用物質之百分比含量未超出百分比含量基準值。 Note 1: “○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.						
備考2. “—” 係指該項限用物質為排除項目。 Note 2: The “—” indicates that the restricted substance corresponds to the exemption.						

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1. Introduction

Your VALUESCAN III is a 1D CCD scanner that has been configured at the factory with default settings.

Because many host systems have unique formats and protocol requirements, ID TECH provides a wide range of configurable features that may be selected using this bar code-based configuration tool. After configuration, the scanner stores the settings in nonvolatile memory. The embedded memory saves the settings when the power is turned off.

Turn off the computer's power before connecting the scanner; power up the computer after the scanner is fully connected.

To change a parameter value, scan the appropriate bar codes in this guide. These new values replace the default values in memory.

Note: Most computer monitors allow you to scan bar codes directly on the screen. When scanning from the screen, make sure to set the document magnification to a level where you can see the bar code clearly and that bars or spaces are not merging.

1.1. Application Field

- Jewelry Tag
- Manufacturing
- Transportation & Logistics
- Healthcare

1.2. Features

- Makes daily work simple and easy
- 2500 pixels CCD image sensor
- Scan Speed \geq 270 times/sec
- Maximum reading resolution: 3mil (0.762mm)
- Depth of Field: 15~330mm (EAN, 13mil/0.33mm, PCS 90%)
- Drop resistance: 1.5 meters onto concrete
- Auto-sensing (presentation) mode available



※ *Just scan the Presentation Mode barcode on the Stand to easily switch to presentation mode for the VALUESCAN III scanner.*

Presentation Mode

2. Unpacking

Make sure the following items were included in your package:

- Scanner x1
- Stand x1
- Quick Start Guide x1
- USB Cable x1

When you receive your scanner, open the package immediately and inspect for shipping damage. If you discover any damage, contact the shipping company and file a claim. ID TECH is not responsible for any damage incurred during shipping. Save all packing materials for the shipping company to inspect.

Note: If any item is missing, please contact your local dealer.

3. Getting Started

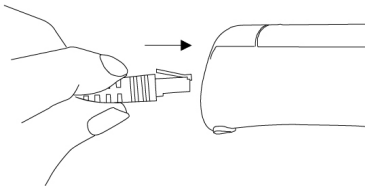
This section provides information about installing, connecting, and using your scanner.

3.1. Installation

Install your scanner with the steps below.

3.1.1. Setting Up Your Scanner

1. Plug the RJ45 connector into the scanner's RJ45 port until it clicks.



2. Insert the USB connector to your computer.
3. Turn on your computer. It will autodetect your scanner.
4. To test your scanner, start a text editing program like Notepad or Microsoft Word. Scan a bar code to see if the scanner can send data to your computer. If it's successful, you'll hear a beep and see the bar code data in the text editing program.

3.2. Scanning Barcodes

VALUESCAN III emits a light bar when scanning. To scan a barcode, make sure the aiming beam crosses every bar and space of the barcode. This bar needs to cross the bar code horizontally to decode it.



4. Controls and Settings

Customize your scanner to work efficiently. VALUESCAN III offers many features to match your preferences. The following section provides information about changing your scanner's controls and settings.

4.1. Version Information Setting Codes

Version (custom)



000A0

Display internal string (custom)



000A1

Display serial number (custom)



000A2

Factory default



000B0

Enable the code setting function



09990

Disable the code setting function



09991

4.2. Interface Mode Setting Codes

VALUESCAN III supports USB HID and virtual COM. By default, your scanner is able to detect the interface automatically. When it detects USB, it selects HID as your scanner's interface.

USB-HID (Default)



000602

USB Virtual Com



000603

Note: If you use the scanner to communicate with your computer via a serial interface (e.g., COM1 ... COM8), but your computer does not have a serial port, the scanner requires a virtual COM port driver. Use this driver to assign a virtual COM port connection number to devices connected via a USB port and to enable bidirectional communication between your computer and the VAUESCAN III.

Get the USB virtual COM port driver from the ID TECH global website.

Download and install the driver. After installing the driver, restart your computer. The system will then automatically detect your scanner.

4.3. Scan Mode Setting Codes

Trigger mode (default)



013340

Continuous scan mode



013344

Presentation mode



013380

Key delay



013342

Single not triggered



013341

Key delay not triggered



013343

Auto flashing



013345

4.4. Sound Setting Codes

Sound on (default)



014201

Sound off



014200

Buzzer frequency 2048



0145800

High volume sound



014300

Low volume sound



014301

Buzzer frequency 2731



0145AAA

4.5. Character Delete, Insert, and Replacement Settings

Code ID off (default)



01400

Code ID on



01401

Rear code ID on



01402

Display code front character
(default)



0201x

Hide code front blank



0200[SPACE]

Display code rear character (default)



0203

Hide code rear character n
("n" indicates a blank key.)



0202[SP]

Display characters inside code
(default)



0205-

Hide – inside code



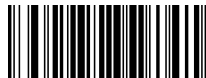
0204-

Disable A replace 0 in code (default)



020600

Enable A replace 0 in code



02060A

Display rear characters (default)



023300

Hide rear 5 characters



023305

Hide rear 1 characters



023301

Display front characters (default)



023400

Hide front 5 characters



023405

Display middle characters (default)



023900

Hide 5 middle characters



023905

Forward start from 4th character



024004

FUNC1 replace with 1



0160049

FUNC2 replace with 2



0161050

FUNC3 replace with 3



0162051

FUNC4 replace with 4



0163054

Disable enter replace (default)



0182013

Enter replace with 5



0182055

4.6. Serial Port Settings

Baud rate 600bps



000701

Baud rate 1200bps



000702

Baud rate 2400bps



000703

Baud rate 4800bps



000704

Baud rate 9600bps (default)



000705

Baud rate 19200bps



000706

Baud rate 38400bps



000707

Baud rate 57600bps



000708

Baud rate 115200bps



000709

Serial Port: No Check



001200

Serial port: XON/OFF



001201

Serial port: RTS/CTS



001202

Serial port handshake timeout 2s



0013020

Serial port handshake timeout 5s



0013050

Serial port 8-bit data



00080

Serial port 7-bit data



00081

Serial port 1 stop bit



00090

Serial port 2 stop bits



00091

Serial port No parity check



001000

Serial port odd parity check



001001

Serial port even parity check



001002

4.7. Normal Function Setting Codes

Enable upload setting barcodes



02501

Disable upload setting barcodes
(default)



02500

FUNC cast light upon cancel
(default)



01640

Disable change



02510

All uppercase



02511

All lowercase



02512

Uppercase interchange
with lowercase



02513

Enable command beep



01411

Disable command beep



01410

Forward image identify (default)



00161

Reverse image identify



00160

Fastest transmit rate



001500

Medium transmit rate (default)



001502

Lower transmit rate



001504

Lowest transmit rate



001506

4.8. Prefix and Suffix Settings

CR



0212@\r

CR+LF



0213@\r\n

All barcodes (rear) add ETX



0211@[ETX]

All barcodes (front) add F2



02160081

All barcodes (rear) add F2



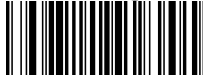
02110081

Cancel all barcodes (rear) format character



0210@

Add STX before barcodes



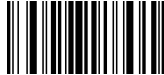
0217@[STX]

Cancel all boots before barcodes



0215@

Add prefix



02240

Add suffix



02241

Exit add pre/suffix Mode



02242

Clear all prefix



02220

Clear all suffix



02200

Enter hidden front character mode



02340

Enter hidden rear character mode



02341

Enter hidden middle character mode



02342

Enter the hidden Nth character mode



02343

4.9. Multi-Language Setting Codes

English (default)



0005000

Canada (French)



0005001

Dutch (Netherlands)



0005002

Spain (Spanish)



0005003

Argentina (Latin American)



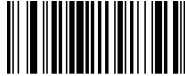
0005004

Brazil (Portuguese)



0005005

Denmark (Danish)



0005006

UK (English)



0005007

Italy (Italian142)



0005008

France (French)



0005009

German (Germany)



0005010

Norway (Northern Sami)



0005011

Sweden, Finland
(Swedish, Finnish)



0005012

Slovak (Slovakia)



0005013

Portuguesa (Portuguese)



0005014

Czech Republic (Czech)



0005015

Belgium (Dutch)



0005016

Turkey-F



0005017

Turkey-Q



0005018

Poland (Polish214)



0005019

Switzerland (German, French)



0005020

Croatia (Srb-Crt)



0005021

Hungary (Hungarian)



0005022

Japan (Japanese)



0005023

Russia (Russian)



0005024

Arabic (Egypt)



0005025

4.10. Character Tables

(For adding prefixes and suffixes)



1001
SOH



1003
ETX



1002
STX



1004
EOT



1006
ACK



1005
ENQ



1007
BEL



1009
TAB



1008
Backspace



1010
Line



1012
FF



1011
VT



1013
Enter



1015
SI



1014
SO



1016
DLE



1018
DC2



1017
DC1



1019
DC3



1021
NAK



1020
DC4



1022
SYN



1024
CAN



1023
ETB



1025
EM



1027
ESC



1026
SUB



1028
FS



1030
RS



1029
GS



1031
US



1033
!



1032
SPACE



1034
"



1036
\$



1035
#



1037
%



1039
'



1038
&



1040

(



1042

*



1041

)



1043

+



1045

-



1044

,



1046

.



1048

0

Note: Used to set address/prefix/suffix



1047

/



1049

1

Note:
Used to set address/prefix/suffix



1051

3

Note:
Used to set address/prefix/suffix



1050

2

Note: Used to set address/prefix/suffix



1052

4

Note:
Used to set
address/prefix/suffix



1054

6

Note:
Used to set address/prefix/suffix



1053

5

Note:
Used to set address/prefix/suffix



1055

7

Note:
Used to set
address/prefix/suffix



1057

9

Note:
Used to set address/prefix/suffix



1056

8

Note: Used to set address/prefix/suffix



1058

:



1060

<



1059



1061

=



1063

?

;



1062

>



1064

@



1066

B



1065

A



1067

C



1069

E



1068

D



1070

F



1072

H



1071

G



1073



1075

I



1074

K



1078

J



1076

N

L



1077

M



1081

1079

Q

O



1080

P



1084

1082

T

R



1083

S



1087

1085

W

U



1086

V



1088

X



1090

Z



1089

Y



1091

[



1093

]



1092

\



1094

^



1096

`



1095

-



1097

a



1099

c



1098

b



1100
d



1102
f



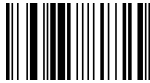
1101
e



1103
g



1105
i



1104
h



1106
j



1108
l



1107
k



1109
m



1111
o



1110
n



1112
p



1114
r



1113

q



1115

s



1117

u



1116

t



1118

v



1120

x



1119

w



1121

y



1123

{



1122

z



1124

|



1126

~



1125

}



1127
Delete



1129
F2



1128
F1



1130
F3



1132
F5



1131
F4



1133
F6



1135
F8



1134
F7



1136
F9



1138
F11



1137
F10



1139
F12



1141
HOME



1140
INSERT



1142
Page up



1144
END



1143
Delete



1145
Page down



1147
Left arrow



1146
Right arrow



1148
Down arrow



1149
Up arrow

4.11. Enable and Disable Barcodes

Enable code39



00221

Disable code39



00220

Code39 ID as m



0031m

Enable code39 Full ASCII (default)



00231

Disable code39 Full ASCII



00230

Disable code39 MOD43 Check
(default)



00240

Enable code39 MOD43 Check



00241

Enable code39 transmit check



00251

Disable code39 transmit check



00250

Disable code39 transmit*
(default)



00280

Enable code39 transmit*



00281

Disable code32 (default)



01950

Enable code32

Note: It will affect code39.



01951

Code39 TAB Mode



0212M\t

System characters hiding code32



01961

System characters sending
code32



01960

Setting the CODE39 to a
minimum length of 1
Software version available before
and after V7.53



003201

Setting the CODE39 to a
minimum length of 2 (default)
Software version available before
and after V7.53



003202

Setting the CODE39 to a
minimum length of 3
Software version available before
and after V7.53



003203

Code39 minimum length 1
(software version available
before V7.53)



00321

Code39 minimum length 2
(default)
Software version available after
V7.53



00322

Code39 minimum length 3
Software version available after
V7.53



00323

Enable UPC-A (default)



00341

Disable UPC-A



00340

UPC-A ID as e



0049e

Enable UPC-A change to EAN-13



00391

Disable UPC-A change to EAN-13
(default)



00390

Transmit UPC-A check digit
(default)



00421

No-transmit UPC-A check digit



00420

UPC-A display system digit



00400

UPC-A hide system digit



00401

Enable UPC-E (default)



00351

Disable UPC-E



00350

UPC-E ID as f



0050f

Enable UPC-E change to UPCA



00381

Disable UPC-E change to UPC-A
(default)



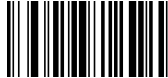
00380

UPC-E hiding system characters



00431

UPC-E sending system characters



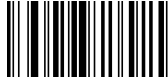
00430

UPC-E sending check digits



00441

UPC-E not sending check digits



00440

Enable EAN-13 (default)



00361

Disable EAN-13



00360

EAN-13 ID as d



0051d

Transmit EAN-13 Check digit
(default)



00461

No-transmit EAN-13 check digit



00460

Enable EAN-13 change to ISBN



00481

Disable EAN-13 change to ISBN
(default)



00480

Enable EAN-13 change to ISSN



01501

Disable EAN-13 change to ISSN
(default)



01500

Enable EAN-13 multiple verify



00541

Disable EAN-13 multiple verify
(default)



00540

Enable EAN-8 (default)



00371

Disable EAN-8



00370

EAN-8 ID as c



0052c

EAN-8 transmit check digit
(default)



00571

EAN-8 No-transmit check digit



00570

EAN-8 hide system digit



00561

EAN-8 display system digit
(default)



00560

Enable 5-digit supplement



00552

Enable 2-digit supplement



00551

Enable 2-digit
& 5-digit supplements



00553

Disable supplement (default)



00550

Enable code93 (default)



00621

Disable code93



00620

Code93 ID as i



0066i

Enable code93 multiple verify



00681

Disable code93 multiple verify
(default)



00680

Enable Code93 MOD47 (default)



01901

Disable Code93 MOD47



01900

Enable code128 (default)



00691

Disable code128



00690

Code128 ID as a



0081a

Disable code128 multiple verify
(default)



00840

Enable code128 multiple verify



00841

Enable codabar (default)



00851

Disable codabar



00850

Codabar ID as v



0094v

Codabar minimum length 4



008704

Codabar start /
stop character transmission



00861

Codabar start / stop character
without transmission (default)



00860

Enable interleaved 2 of 5 (default)



00961

Disable interleaved 2 of 5



00960

Interleaved 2 of 5 ID as n



0104n

Interleaved 2 of 5 minimum
length 4



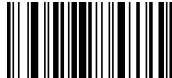
009704

Enable Interleaved 2 of 5 ID check



00981

Disable Interleaved 2 of 5 ID
check



00980

No transmission of check on
Interleaved 2 of 5 ID



00991

Transmission of check
on Interleaved 2 of 5 ID



00990

Enable bank mode



01001

Disable bank mode



01000

Enable industrial 2 of 5 (default)



01061

Disable industrial 2 of 5



01060

Industrial 2 of 5 ID as o



01130

Industrial 2 of 5 minimum length
3



010703

Enable MSI



01151

Disable MSI (default)



01150

MSI ID as s



0053s

MSI minimum length 4



011804

Enable Plessey



01161

Disable Plessey (default)



01160

Plessey ID as t



0117t

Plessey minimum length 3



011903

Enable code11 (default)



01261

Disable code11



01260

code11 ID as u



0131u

Code11 minimum length 4



012804

Code11 auto CK check



01271

Code11 C check (default)



01272

Code11 CK check




01273


Enable Matrix 25 (default)




Disable Matrix 25
01461


Matrix 25 ID as q
01460



Matrix 25 minimum length 2
00147q



Matrix 25 minimum length 3
014802


Enable postal 25
014803



Disable postal 25 (default)
01571


Postal 25 ID as r
01570


Postal 25 minimum length 5
0158r


Postal 25 minimum length 7
015905


Enable aerial 25
015907


Disable aerial 25 (default)
01871


01870


Aerial 25 ID as p



0188p

Aerial 25 minimum length 7



018907

All EAN change to ISSN



02371

Disable EAN change to ISSN
(default)



02370

All EAN change to ISBN



02361

Disable EAN change to ISBN
(default)



02360

Enable digital keyboard mode



02581

Disable digital keyboard mode



02580

Enable GS1 Omni-directional



01671

Disable GS1 Omni-directional
(default)



01670

GS1 Omni ID as j



0168j

Enable GS1 Limited



01771

Disable GS1 Limited (default)



01770

GS1 Limited ID as k



0178k

Note: The setting code type is **code128**. When generating a barcode, you must add **^3** before the barcode; for example: **^3+******* (required barcode).

The ASCII codes in the above table are all decimal.
For hexadecimal ASCII codes, refer to [ASCII Table 2](#).

5. Prefix / Suffix Code Setting Instructions

The pre/suffix code is divided into a common pre/suffix code and a private pre/suffix code. The common pre/suffix code means that the pre/suffix code is added before a barcode; the private pre/suffix code refers to a certain type of barcode, such as **code 128** codes and **code 39**, a specific barcode to which the pre/suffix is added. You can add up to 32 characters.

5.1. Common pre/suffix code:

There are two ways to add a pre/suffix code:

1. For the first method, scan a barcode additive, and the setting code is 0223X (prefix code) and 0221X (suffix code). 0223 and 0221 stands for one common pre/suffix code, where the value of X represents the added character and this X is a binary. For example, to add a common pre/suffix code A, the setting code is 0221A, which means that the suffix code A is added to all barcodes. Input the following data in the software.

The setting code is 0223A, which means that all barcodes are added with the first code A. Input the following data in the software.

For example, a common suffix code is added, and the setting code is 0221\r. Input the following data in the software.

2. In the second way, the prefix and suffix codes are added. Setting codes are scanned and set through ASCII code. The setting codes are 021100nn (suffix code) and 021600nn (prefix code). This ASCII setting is hexadecimal. Refer to ASCII Table 2 for specific parameters.

For example, to add the common suffix code A, the hexadecimal setting code is 02110041; to add the common prefix code A, the hexadecimal setting code is 02160041.

In addition, you must add a character after the barcode and then add Enter. To add the character "+" after the bar code and then add Enter, use the setting code is "0213@+\r"; the suffix code is "0212@non-accumulative, 0213@accumulative 2 times, and 0211@accumulative 3 times.

5.2. Adding an exclusive suffix code

One type of barcode must be added with an exclusive suffix code. For example, the Code 128 codes must be followed by the letter A; there are two ways to do so:

1. 0211 0141

See Table 1 below for explanation.

See ASCII code table 2.

2. 0212 A A

To accumulate, use 0213A and 0211A.

Please refer to [Code Table 1](#) for other types of barcodes.

Likewise, to add a specific barcode with a prefix code, all Code 128 codes are needed before the letter A; there are two ways to do so:

1. 0216 0141

See Table 1 below for explanation.

See ASCII code table 2.

2. 0217 A A

To accumulate, use 0218A.

5.3. Sleep time setting / button timeout setting

1. Sleep time setting code: **0310nnn**.
If X seconds of sleep is required and calculated in hexadecimal (4 for base), the formula is **$x/4=NNN$** .

For example, if it takes 60 seconds to automatically shut down, the setting code is 0310015.

If it takes five minutes to automatically shut down, the setting code is 0310015.

Sleep time limit: 42 minutes and 47 seconds.

2. Button timeout setting code: **0235nn**.
If the button timeout is 4S, the setting code is 023540.

5.3.1. Hiding Characters

The hidden suffix character setting code is **0233nn**. To hide the suffix 5 characters, the setting code is 023305.

The hidden prefix setting code is **0234nn**. If 023405 is hides the prefix 5 characters, just change the value of **nn** to change the number of hidden characters.

To hide middle characters, you must use two setting codes at the same time: **0239nn**, to hide **nn** characters in the middle, and **0240nn**, to start hiding characters after the first **nn** characters.

For example, if the barcode is 123456789 and you wish to hide 456, the setting codes are 023903 (to hide the three middle characters) and 024003 (to begin hiding characters after the third character). Using these codes together results in 123789.

5.4. Code Table 1 For Barcode Types

@	(00)	All
A	(01)	code128
C	(03)	EAN8
D	(04)	EAN13
E	(05)	UPCA
F	(06)	UPCE
I	(09)	CODE93
J	(0A)	GS1 OMNI
K	(0B)	GS1 LIM1
M	(0D)	CODE39
N	(0E)	Interleaved 2 of 5
O	(0F)	Industrial 2 of 5
P	(10)	Aerial25
Q	(11)	Matrix 25
R	(12)	Postal 25
S	(13)	MSI
T	(14)	PLESSEY
U	(15)	CODE11
V	(16)	CODABAR

Lookup table for specific keys and code values (ASCII code values available for standard characters):

F1	0x80
F2	0x81
F3	0x82
F4	0x83
F5	0x84
F6	0x85
F7	0x86
F8	0x87
F9	0x88
F10	0x89

F11	0x8A
F12	0x8B
Insert	0x8C
Home	0x8D
Page up	0x8E
Page down	0x91
Delete	0x8F
End	0x90
Right	0x92
Left	0x93
Down	0x94
Up	0x95

If CODE93 is added with the STX prefix code, according to the STX ASCII value that is 0x02, then the setting code content should be printed as shown below.

5.5. Tip 1

ASCII = [F3]'0"2"1"6"l' [STX]

Binary = [F3] + 0x30 + 0x32 + 0x31 + 0x37 + 0x49
+ 0x02

Setting barcode -->



5.6. Tip 2

ASCII = [F3] + '0' + '2' + '1' + '6' + '0' + '9' + '0' + '2'

And if CODE93 is added with Home prefix code:

ASCII = [F3] + '0' + '2' + '1' + '6' + '0' + '9' + '8' + 'D'

Note: Code93 corresponds to 09 <value of each code that is given in the note on the previous page>; the home key value is 0x8D.

6. ASCII Table 2

Decimal	Hexadecimal	Character
0	0	Null
1	1	Header start
2	2	Text start
3	3	Text end
4	4	Transmission end
5	5	Query
6	6	Confirmation
7	7	Ring
8	8	backspace
9	9	Level positioning character
10	0A	Line feed / new line
11	0B	Vertical positioning character
12	0C	Form feed / new page
13	0D	Enter
14	0E	Shift-out
15	0F	Shift-in
32	20	space
33	21	!
34	22	"
35	23	#
36	24	\$
37	25	%
38	26	&
39	27	'
40	28	(
41	29)
42	2A	*
43	2B	+
44	2C	,
45	2D	-
46	2E	.
47	2F	/
48	30	0
49	31	1
50	32	2
51	33	3

Decimal	Hexadecimal	Character
52	34	4
53	35	5
54	36	6
55	37	7
56	38	8
57	39	9
58	3A	:
59	3B	;
60	3C	<
61	3D	=
62	3E	>
63	3F	?
64	40	@
65	41	A
66	42	B
67	43	C
68	44	D
69	45	E
70	46	F
71	47	G
72	48	H
73	49	I
74	4A	J
75	4B	K
76	4C	L
77	4D	M
78	4E	N
79	4F	O
16	10	Data link translation
17	11	Device control 1
18	12	Device control 2
19	13	Device control 3
20	14	Device control 4
21	15	Reverse confirmation
22	16	Synchronous idle
23	17	Transmission block end
24	18	Cancel
25	19	Media end

Decimal	Hexadecimal	Character
26	1A	Interchange
27	1B	Translation
28	1C	File separator
29	1D	Group separator
30	1E	Record separator
31	1F	Unit separator
80	50	P
81	51	Q
82	52	R
83	53	S
84	54	T
85	55	U
86	56	V
87	57	w
88	58	X
89	59	Y
90	5A	Z
91	5B	[
92	5C	\
93	5D]
94	5E	^
95	5F	_
96	60	`
97	61	a
98	62	b
99	63	c
100	64	d
101	65	e
102	66	f
103	67	g
104	68	h
105	69	i
106	6A	j
107	6B	k
108	6C	l
109	6D	m
110	6E	n
111	6F	o

Decimal	Hexadecimal	Character
112	70	p
113	71	q
114	72	r
115	73	s
116	74	t
117	75	u
118	76	v
119	77	w
120	78	x
121	79	y
122	7A	z
123	7B	{
124	7C	
125	7D	}
126	7E	~
127	7F	DEL

7. Specifications

Standard Features

Symbologies UPC-A, UPC-E, EAN-13, EAN-8, Codabar, Code 39 Full ASCII, China Post, Plessey, MSI, Code 93, Code 128, Industrial 2 of 5, Interleave 2 of 5, Matrix 2 of 5, Code 11, ISBN, ISSN, Code32 (Italian Pharmcode), Code39 extended, GS1-128 and ITF-14, SISAS, GS1 Omnidirectional, GS1 Limited, Aviation25, RSS14

Depth of Field 25~100mm (Code39, 4mil, PCS90%)
15~330mm (EAN, 13mil, PCS90%)

Characteristics

Dimensions 102mm x 71mm x 177mm

Weight 190g

Power DC5V±1%

Trigger Switch >1,000,000 cycles

Light Source RED LED 620nm~630nm

Image Sensor 2500-point pixel CCD image sensors

Interface USB-HID, USB-Virtual COM

Indication LED, Beeper

Performance

Resolution 3mil (0.76mm)

Print Contrast Min. 20%

Scan Rate >=270 time/s

Scan Angle Yaw±55°, Rotation±30°, Pitch±65°

Environment

Light Strength 70,000 Lux

Temperature Operating temp.: -20°C to 50°C
Storage temp.: -40°C to 70°C

Humidity 5% to 95% (Non-condensing)

Drop Withstands multiple times 1.5meters drops to concrete

Sealing IP42

Regulatory

Regulatory Approvals CE, FCC, BSMI

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