IDAutomation W3USB Scanner Programming Manual www.idautomation.com



IDAutomation.com provides barcode fonts, components, label printing software and barcode readers, such as scanners and wands. To obtain support for this product, please visit www.idautomation.com/support/

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Chapter 1 Description

1.1 Introduction

The Decoder is an advanced and versatile decoding facility for barcoding systems. This manual provides an easy way to configure the decoding options and interface selections by scanning bar codes listed in the manual.

1.2 Codes Read

ALL UPC/EAN/JAN, Code 39, Code 39 Full ASCII, Code 128, Interleave 25, CODABAR/NW7

1.3 Installation

Installing the Keyboard Wedge Reader

To install the keyboard wedge reader, follow the steps below:

- 1. Turn off the power of PC or Terminal.
- 2. Unplug keyboard from PC or Terminal.
- 3. Make sure you have Y Cable with appropriate connector type for your PC or Terminal.
- 4. Connect Decoder into your PC or Terminal and its keyboard.
- 5. Turn on the power of PC or Terminal.

Installing the RS232 Reader

To install the RS232 reader, follow the steps below:

- 1. Turn off the power of PC or Terminal.
- 2. Make sure you have connector type for RS232, connect Decoder with your PC or Terminal.
- 3. Plug AC Adaptor or power cable into Decoder.
- 4. Turn on the power of PC or Terminal.

Installing the USB Reader

To install the USB Reader, plug the USB cable into the USB port of your PC or terminal. The USB reader will emulate a USB keyboard.

1.4 Pin Assignment

1. PC Keyboard Output

DIN 5 MALE



MiniDIN 6 MALE

Pin No.	Function
1	HOST DATA
3	GND
4	Vcc
5	HOST CLK
5~	6
3—	€ ■
1-⁄	<u> </u>

2. RS-232 Output

DB 9 Female

Pin No.	Function
2	TXD
3	RXD
5	GND
7	CTS
8	RTS
Power Lead	Vcc (+5V)

3. USB Interface

USB A Type Male

Pin No.	Function
1	Vcc
2	D-
3	D+
4	GND

DIN 5 FEMALE

Pin No. Function 1 KB CLK 2 KB DATA 4 GND 5 Vcc(+5V) 3 5 4

MiniDIN 6 FEMALE

Pin No.	Function
1	KB DATA
3	GND
4	Vcc
5	KB CLK









Chapter 2 Configuration - General

2.1 Flow Chart



2.2 Loop of Programming

The philosophy of programming parameters has been shown on the flow chart of 2.1. Basically the user should:

- 1. Scan Start of Configuration.
- Scan all necessary labels for parameters that meet applications.
- 3. Scan End of Configuration to end programming.
- 4. Scan Save Parameters to permanently save the settings you programmed.
- 5. To go back to the Default Settings, just scan label for Set All Defaults.

2.3 Factory Default Settings

The factory default settings are shown with < > and bold in the following sections. You can make your own settings by following the procedures in this manual. If you want to save the settings permanently, you should scan the label of "Save Parameters" in chapter 2.4, otherwise the settings will not be saved after the decoder power is off, and all settings will go back to previous settings.

By scanning "Set All Default" label, the settings will go back to the factory default settings.

2.4 Main Page of Configuration



Save Parameters -

The parameter settings will be saved permanently.

Set All Defaults -

Set all the parameters to the factory default settings.

Version Information -

Display the decoder version information and date code.

2.5 Interface Selection







Ch.3 Communication Parameters

3.1 RS232 Mode Parameters

A> Set Up BAUD Rate









B> Set Up Data Bits

7 Data Bits



C> Set Up Stop Bits









Space



E> Handshaking

<RTS/CTS Disable>















3.2 Keyboard Wedge Mode Parameters A> Terminal Type





Apple Desktop Bus(ADB)



B> Upper/Lower Case





C> Send Character by ALT Method





D> Select Numerical Pad





3.3 Output Characters Parameters

A> Select Terminator









Space







B> Time-out Between Characters





Ch.4 Bar Codes and Others

4.1 Symboligies Selection





EAN-13/JAN-13 **<ON>**

EAN-8/JAN-8 **<ON>**

CODE 39 **<ON>**

CODE 128 **<ON>**











OFF









4.2 UPC/EAN/JAN Parameters

A> Reading Type

UPCA=EAN13 <OFF>









Transmit Supplementals



B> Check Digit Transmission



Not Transmit Check Digit

4.3 Code 39 Parameters







B> Check Digit Transmission

<Do Not Calculate Check Digit>





Calculate Check Digit & Not Transmit



C> Output Start/Stop Character

<Disable>



Enable

4.4 Code 128 Parameters

A> Check Digit Transmission

Do Not Calculate Check Digit



Calculate Check Digit & Transmit





4.5 CODABAR/NW7 Parameters

A> Set Up Start/Stop Characters Upon Transmission





B> Transmission Type of Start/Stop









D Start











4.6 Interleave 25 Parameters

A> Check Digit Transmission







B> 44+4 Function





Ch.5 Miscellaneous Parameters 5.1 Language Selection





Italian





French





Swedish

Hungarian

















Reserved1





















5.3 Set Up Truncation

A> Truncate Front Digit(s)

<Truncate Front 0 Digit>

















<Truncate End 0 Digit>



Truncate End 2 Digits

Truncate End 3 Digits









5.4 Set Up Preamble and Postamble

A> Set Up Preamble





2.ASCII Table (Appendix B)

3.Complete

There are 4 characters allowed to be added to the preamble. To set Preamble character(s):

- 1. Scan the "Start" label.
- 2. Scan "Begin" label above.
- 3. Go to ASCII Table in Appendix B, find the corresponding characters, scan the labels in Appendix B.
- 4. Back to the current page, scan the "Complete" label above.
- 5. Scan the "End" label.

B> Set Up Postamble





2.ASCII Table (Appendix B)



There are 4 characters allowed to be added to the postamble. To set Postamble character(s):

- 1. Scan the "Start" label.
- 2. Scan "Begin" label above.
- Go to ASCII Table in Appendix B, find the corresponding characters, scan the labels in Appendix B.
- 4. Back to the current page, scan the "Complete" label above.
- 5. Scan the "End" label.

Appendix A NULL ETX ACK ΗT FF SI DC2 NAK CAN ESC RS

STX ENQ BS VT so DC1 DC4 ETB SUB GS

ASCII Table

SOH EOT BEL LF CR DLE DC3 SYN EΜ FS US SPACE # &) 2F 2 5 8 >

% (+ 2F 1 4 7 37 =

@ С F L 0 R U Х

в Е н Κ Ν Q 51 т w Ζ 1

A D G J Μ Ρ S V Y ١ с f o r u х {

b е h k n q t w z }

а d g j m р s v y DEL

 Save Parameters
 Image: Save Parameters

 Set All Defaults
 Image: Save Parameters

 Start Configuration
 Image: Save Parameters

 End Configuration
 Image: Save Parameters

 Version Information
 Image: Save Parameters