## ZhongLi ZL2200

Bar Code Scanner
User's Guide

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## Introduction

## Components



Figure 1. Scanner Components

## Maintenance

Smudges and dirt on the unit's window can interfere with the unit's performance. If the window requires cleaning, use only a mild glass cleaner containing no ammonia. When cleaning the window, spray the cleaner onto a lint free, nonabrasive cleaning cloth then gently wipe the window clean.
If the unit's housing requires cleaning, use a mild cleaning agent that does not contain strong oxidizing chemicals. Strong cleaning agents may discolor or damage the unit's exterior.
$\qquad$
Caution and Serial Number Labels


Figure 2. Label Location on the Bottom of the Scanner
$\qquad$

## Scanner Operation

## Audible Indicators

When the scanner is operational, the scanner provides audible feedback to indicate the status of the scanner and the last scan. Eight settings are available for the tone of the beep (normal, six alternate tones and no tone).

## One Beep - On Power Up

When the unit powers up, the green LED turns on, then the green LED flashes and the scanner beeps once. The green LED will remain on for the duration of the beep. The scanner is now ready to scan.

One Beep - During Operation
When the scanner successfully reads a bar code, the green LED will flash and the scanner beeps once (if programmed to do so). If the scanner does not beep once and the green light does not flash, then the bar code has not been successfully read.

## Visual Indicators

The scanner is equipped with a red LED and green LED, which indicate the scanner's state and the status of the current scan respectively when the unit is in operation.


Figure 3. LED Location

## Green and Red LEDs Are Off

The LEDs will not be illuminated if the scanner is not receiving power from the host or transformer.

## Steady Red

Steady green indicates normal pulse or continuous laser operation.
Accompanied by a razzberry tone, a steady green LED indicates that an invalid bar code has been scanned.

## Flashing Red

After a period of inactivity, the ON time of the pulsing laser will be shortened. During this time the green LED will flash. This indicates that the scanner is in a power saver mode. When a bar code enters the laser field, the scanner will wake up and return to normal pulse mode.

## Steady Red and Single Green Flash

When the scanner successfully reads a bar code, the green LED will flash and the scanner will beep. If the green LED does not flash and the scanner does not beep, the bar code has not been successfully read.

## Steady Green and Steady Red

After a successful read, the scanner transmits the data to the host device. Some communication modes require that the host inform the scanner when data is ready to be received. If the host is not ready to accept the information, the scanner's green LED will remain on until the data can be transmitted.

## Failure Modes

## One Razzberry Tone - On Power Up

This indicates the scanner has experienced a laser or flipper subsystem failure. Return the unit for repair to an Authorized Service Center.

## Continuous Razzberry Tone with no LEDs

If, upon power up, the scanner emits a continuous razzberry tone, then the scanner has an experienced an electronic failure. Return the unit for repair to an Authorized Service Center.

Three Beeps - On Power Up
If the scanner beeps three times on power up, then the non-volatile memory (NovRAM) that holds the scanner configuration has failed. You must return the unit for repair to an Authorized Service Center.

## Typical Depth of Field by Bar Code Element Width

| Bar Code Element <br> Width Depth of Field  <br>  Start <br> (From Scanner Face)  <br> (From Scanner Face)   |  |  |  |
| :---: | :---: | :---: | :---: |
|  | 5 mil | $47 \mathrm{~mm}\left(1.9^{\prime \prime}\right)$ | $111 \mathrm{~mm}\left(4.4^{\prime \prime}\right)$ |
| 0.19 mm | 7.5 mil | $20 \mathrm{~mm}\left(.8^{\prime \prime}\right)$ | $163 \mathrm{~mm}\left(6.4^{\prime \prime}\right)$ |
| 0.33 mm | 13 mil <br> UPC-A | $17 \mathrm{~mm}\left(0.7{ }^{\prime \prime}\right)$ | $232 \mathrm{~mm}\left(9.1^{\prime \prime}\right)$ |

## Troubleshooting Guide

The following guide is for reference purposes only. Contact a customer service representative to preserve the limited warranty terms.

| Symptoms | Possible Causes | Solution |
| :---: | :---: | :---: |
| All Interfaces |  |  |
| The unit has no LEDs, beep or laser. | No power is being supplied to the unit. | Check the transformer, the outlet and power strip. Make sure the cable is plugged into the unit. |
|  | No power is being supplied to the unit from host. | Some host systems cannot supply enough current to power the scanner. A power supply may be needed. |
| At power up the unit beeps two times and alternately flashes the LEDs. | There is a ROM failure. | A flash ROM upgrade is required. |
| At power up the unit beeps three times. | There is a nonvolatile RAM failure. | Contact a customer service representative. |
| At power up there is a continuous razz tone. | There has been a diagnostic failure. |  |
| At power up there is a razz tone and the green LED flashes. | There is a VLD failure. |  |
| At power up there is a razz tone and both LEDs flash. | There is a scanning mechanism failure. |  |
| The unit scans, communicates and beeps twice. | The same symbol timeout is set too short. | Adjust the same symbol timeout for a longer time. |
| The unit powers up, but does not beep. | The beeper may be disabled or no tone has been selected. | Enable beeper and select a tone. |


| Symptoms | Possible Causes | Solution |
| :--- | :--- | :--- |
| The unit powers <br> up, but does not <br> scan and/or <br> beep. | The unit is trying to <br> scan a particular <br> symbology that is not <br> enabled. | UPC/EAN, Code 39, interleaved 2 <br> of 5, Code 93, Code 128 and <br> Codabar are enabled by default. <br> Verify the type of bar code being <br> read has been selected. |
| The unit powers |  |  |
| up, but does not |  |  |
| scan and/or |  |  |
| beep. |  |  | | The bar code being |
| :--- |
| scanned does not |
| satisfy the configured |
| criteria for character |
| length lock or |
| minimum length. |$\quad$| Verify the bar code being scanned |
| :--- |
| falls into the configured criteria. |$\quad$| The scanner defaults to a |
| :--- |
| minimum of three-character bar |
| code. |

## Design Specifications

## Operational

| Light Source: | Visible Laser Diode (VLD) @ 650 nm |  |
| ---: | :--- | :--- |
| Laser Power: | Less than 1.0 mW average |  |
| Depth of Scan Field: | $17 \mathrm{~mm}-232 \mathrm{~mm}$ <br> $\left(0.7^{\prime \prime}-9.1^{\prime \prime}\right)$ | $0.33 \mathrm{~mm}(13 \mathrm{mil})$ UPC-A <br> Bar Code |
| Scan Speed: | $72 \pm 2$ scan lines per second |  |$\quad$| Scan Pattern: | Single scan line |
| ---: | :--- |
| Minimum Bar Width: | 4.5 mil |
| Decode Capability: | Reads standard 1D and GS1 DataBar symbologies. |
| System Interfaces: | USB |
| Print Contrast: | $20 \%$ minimum reflectance difference |
| No. Characters Read: | Up to 80 data characters. The maximum number will <br> vary based on symbology and density. |
| Scan Angle: | $55^{\circ}$ Horizontal |
| Pitch, Yaw: | $68^{\circ}, 52^{\circ}$ |
| Beeper Operation: | 7 tones or no beep |
| Indicators (LED): | Green = good read |
|  | Red = laser on, ready to scan |

## Mechanical

| Length: | $165 \mathrm{~mm}\left(6.5^{\prime \prime}\right)$ |
| ---: | :--- |
| Width: | $65 \mathrm{~mm}\left(2.6^{\prime \prime}\right)$ |
| Height: | $80 \mathrm{~mm} \mathrm{(3.2")}$ |
| Weight: | $182 \mathrm{~g} \mathrm{(6.42oz)}$ |

Specifications subject to change without notice.

Electrical

| Input Voltage: | $5 \mathrm{VDC}+/-0.2 \mathrm{~V}$ (USB port) |  |
| ---: | ---: | :--- |
| Operating Power: | Standby: |  |
|  | 700 mW |  |
|  | Decoding USB: | 1000 mW |
| Operating Current: | Standby: | 140 mA average @ 5VDC |
|  | Decoding USB: | 200 mA average @ 5VDC |
|  |  |  |

## Environmental

| Temperature: | Operating: | $0^{\circ} \mathrm{C}$ to $40^{\circ} \mathrm{C}\left(32^{\circ} \mathrm{F}\right.$ to $\left.104^{\circ} \mathrm{F}\right)$ |
| ---: | :--- | :--- |
|  | Storage: | $-40^{\circ} \mathrm{C}$ to $60^{\circ} \mathrm{C}\left(-40^{\circ} \mathrm{F}\right.$ to $\left.140^{\circ} \mathrm{F}\right)$ |
| Humidity: | $5 \%$ to $95 \%$ relative humidity, non-condensing |  |
| Light Levels: | Up to 100000 Lux (9290 footcandles $)$ |  |
| Shock: | Designed to withstand $1.0 \mathrm{~m}(3.3 \mathrm{ft})$ drops |  |
| Contaminants: | Sealed to resist airborne particulate contaminants |  |
| Ventilation: | None required |  |

Specifications subject to change without notice.

## Configuration Introduction

Your new scanner has been factory configured with a set of default parameters. Since many host systems have unique formats and protocol requirements, a wide range of configurable features that may be selected using this bar code based configuration tool are provided. Once the configuration is completed, the scanner stores the settings in nonvolatile memory (NOVRAM). NOVRAM saves the settings when the power is off.

Note: Bar code descriptions marked with an asterisk (*) define a feature that is a factory default. Bar codes marked with a tilde ( ) require the Multi-Code configuration method.

## Bar Code Configuration Methods

Scanners can be bar code configured in two ways: the Single-Code Method and the Multi-Code Method.

## Single-Code Method

Most features can be enabled or disabled using the Single-Code Method.

1. Power up the scanner.
2. Scan the bar code for the desired feature.
3. The scanner will emit a multi-toned beep to indicate the configuration has been saved to NOVRAM.

## Multi-Code Method

All features can be enabled or disabled using the Multi-Code Method.
A feature marked with a tilde $(\sim)$ requires the Multi-Code Method.

1. Power up the scanner.
2. Scan the Enter/Exit Configuration Mode bar code (3 beeps).
3. Scan the bar code for the desired feature (1 beep). Multiple features can be enabled/disabled before scanning the enter/exit configuration mode bar code.
4. Scan the Enter/Exit Configuration Mode bar code (3 beeps) and save the new configuration. To abort a configuration change, power off the scanner before scanning the Enter/Exit code.

## Enter/Exit Configuration Mode



## Returning to Factory Defaults

Scan the Recall Defaults bar code to erase all previous settings and return the scanner to its factory default communication protocol.

Recall Defaults


## Code Types and Decode Rules

Bar code descriptions marked with an asterisk (*) define a feature that is a factory default. Bar codes marked with a tilde ( $\sim$ ) require the Multi-Code configuration method.

## 2 of 5 Codes

## Additional Decode Features

$\left\|\left\|\left\|\left\|\left\|\left\|\left\|\left\|\left\|\left\|\left\|\left\|\left\|\left\|\left\|\| \sim \begin{array}{l}\sim\end{array} \quad \begin{array}{l}\text { Minimum Symbol Length }- \text { Single-line default } \\ \text { is 3. Combine this code with the proper code bytes } \\ \text { (on page 20), to specify the minimum number } \\ \text { of characters in all non-UPC/EAN bar codes. }\end{array}\right.\right.\right.\right.\right.\right.\right.\right.\right.\right.\right.\right.\right.\right.\right.$

## Supplements

| \|||||||||||||||||||||||||||||| | Enable Bookland (979) Supplement Required |
| :---: | :---: |
| $\left\\|\left\\|\left\\|_{1}\right\\|\right\\|\right\\|_{2}\\| \\|\left\\|_{5}\right\\|\\| \\|_{1}\\| \\|\left\\|_{4}\right\\|$ | Disable Bookland (979) Supplement Required |
| $\|\|\|\|\|\|\|\|\|\|\|\|\|\|\|\|\mid$ | Enable Bookland (978) Supplement Required |
| $\left\\|\left\\|\left\\|_{1}\right\\|\right\\|\right\\|\left\\|_{0}\right\\|\left\\|\left\\|_{1}\right\\|\right\\|\left\\|_{0}\right\\| \\|_{7}$ | Disable Bookland (978) Supplement Required |
| $\left\\|\left\|\left\\|_{1}\right\\|\left\\|\left\\|\left\\|_{0}\left\|\left\\|\left\|\left\\|_{1} \mid\right\\|_{3}\\| \\|_{1}\\| \\|\right.\right.\right.\right.\right.\right.\right.\right.$ | Enable 977 (2 Digit) Supplement Required The scanner will require a 2 digit supplement to be scanned when an EAN-13 code begins with 977. |
| $\left\\|\left\\|\left\\|_{1}\| \|\right\\|_{0}\| \|\right\\|_{1}\right\\|\left\\|_{3}\left\|\left\\|_{0} \mid\right\\|_{4} \\|\right.\right.$ | Disable 977 (2 Digit) Supplement Required |
| $\left\\|\left\\|\left\\|_{1}\right\\|\right\\|\right\\|\left\\|_{0} \mid\right\\|_{1}\\| \\|_{3}\\| \\|\left\\|_{1}\right\\|$ | Enable ISBN Check Digit Transmission |
|  | Disable ISBN Check Digit Transmission |
| \|||||||||||||||||||||||| | Enable Bookland to ISBN Conversion |
|  | * Disable Bookland to ISBN Conversion |

## Scanner Operation

## Redundant Scans




1 Redundant Scan - Requires 2 consecutive decodes of the same bar code data for a good scan.

## Data Transmission Delays

Use these codes to select the amount of delay between sending data characters from the scanner to the host. This helps prevent the scanner from overflowing host-input buffers.

* 1 msec Intercharacter Delay


10 msec Intercharacter Delay

25 msec Intercharacter Delay

~ Variable msec Intercharacter Delay - Scan this bar code and a sequence of code bytes on page 20 to set the delay between characters sent to the host system (range from 1 to 255 msecs.).

## Operation Modes


*Manual Trigger Mode - The scanner is activated by pressing the trigger. The scanner scans until a bar code is read, or the trigger is released.


Continuously Scan Mode - The scanner is always in active state.

## Prefixes/Suffixes

Scan the Enter Configuration Mode bar code before trying to set these features (see the Multi-Code Method on page 11.)

## User Configurable Prefixes, All Data


~ Configurable Prefix Character \#1 - A prefix ID can be added and assigned for data transmission. Use this code with a code byte sequence, on page 20, which represents the desired character.

~ Configurable Prefix Character \#2 - Assigns a second configurable prefix character.

## Standard Suffix Characters



* Enable CR Suffix - The scanner transmits a carriage return after each bar code.


## Disable CR Suffix

* Enable LF Suffix - The scanner transmits a line feed after each bar code. Disabled when keyboard wedge defaults are loaded.

Disable LF Suffix

Enable UPC Suffix ID - The scanner will transmit a suffix after any UPC/EAN bar code. The suffixes are A (UPC-A), E (UPC-E), $F$ (EAN-13) and $F$ (EAN-8).

* Disable UPC Suffix ID


## User Configurable Suffixes, All Data

Note: Scan the Enter/Exit Configuration mode code before trying to set this feature. Refer to Multi-Code Method on page 11.

|  | ~ Configurable Suffix Character \#1 - A suffix ID can be added and assigned for data transmission. Use this code with a 3 code byte sequence, on page 20 , which represents the desired character. |
| :---: | :---: |
|  | ~ Configurable Suffix Character \#2 - Assigns a second configurable suffix character. |

## Code Formatting




## Code Bytes Usage

The scanner must be in Configuration Mode for the features requiring code bytes for configuration. The Enter/Exit Configuration Mode bar code must be scanned before starting the configuration cycle. User configurable prefix/suffix characters can then be saved by scanning the 3 digit decimal equivalent of the ASCII character into the appropriate character location with the code byte bar codes.

Example: To add an asterisk (*) as a Prefix, scan the bar codes.

1. Enter/Exit Configuration Mode
(3 beeps)
2. Configurable Prefix \#1 (1 beep)
3. Code Byte 0 (1 beep)
4. Code Byte 4 (2 beeps)
5. Code Byte 2 (3 beeps)
6. Enter/Exit Configuration Mode (3 beeps)

Code Bytes 0-9
$\|\|\|\|\|\|\|\|\|\|\| \quad$ Code Byte 0


Code Byte 1

## Code Byte 2

## Code Byte 3

Code Byte 4


Code Byte 5

Code Byte 6

Code Byte 7


## Code Byte 8

Code Byte 9

## Code Type Table

| Code Byte |  |
| :---: | :--- |
| 004 | UPC-A |
| 002 | UPC-E |
| 003 | EAN-8 |
| 005 | EAN-13 |
| 080 | Code 39 |
| 081 | Codabar |
| 082 | Interleaved 2 of 5 |
| 083 | Code 128 |
| 084 | Code 93 |
| 091 | MSI Plessey |
| 092 | Code 11 |
| 093 | Airline 2 of 5 (15 digits) |
| 094 | Matrix 2 of 5 |
| 095 | Telepen |
| 096 | UK Plessey |
| 097 | Airline (13 digits) |
| 098 | Standard 2 of 5 |
| 099 | TRI-OPTIC |

## ASCII Reference Table

$\left.\begin{array}{|c|c|c|}\hline \text { HEX Value } & \begin{array}{c}\text { Decimal Valuel } \\ \text { Code Byte Value }\end{array} & \text { Character }\end{array} \begin{array}{c}\text { Control } \\ \text { Keyboard Eqv }\end{array}\right]$ NUL $\quad$ @

| HEX Value | Decimal Valuel Code Byte Value | Character | Control Keyboard Eqv |
| :---: | :---: | :---: | :---: |
| 1D | 029 | GS | $\wedge$ |
| 1E | 030 | RS | - |
| 1F | 031 | US | space,blank |
| 20 | 032 | SP |  |
| 21 | 033 | ! |  |
| 22 | 034 | " |  |
| 23 | 035 | \# |  |
| 24 | 036 | \$ |  |
| 25 | 037 | \% |  |
| 26 | 038 | \& |  |
| 27 | 039 | , | apostrophe |
| 28 | 040 | ( |  |
| 29 | 041 | ) |  |
| 2A | 042 | * |  |
| 2B | 043 | + |  |
| 2 C | 044 | , | comma |
| 2D | 045 | - | minus |
| 2E | 046 | . | period |
| 2F | 047 | 1 |  |
| 30 | 048 | 0 | number zero |
| 31 | 049 | 1 | number one |
| 32 | 050 | 2 |  |
| 33 | 051 | 3 |  |
| 34 | 052 | 4 |  |
| 35 | 053 | 5 |  |
| 36 | 054 | 6 |  |
| 37 | 055 | 7 |  |
| 38 | 056 | 8 |  |
| 39 | 057 | 9 |  |
| 3A | 058 | : |  |
| 3B | 059 | ; |  |


| HEX Value | Decimal Valuel Code Byte Value | Character | Control Keyboard Eqv |
| :---: | :---: | :---: | :---: |
| 3C | 060 | $<$ | less than |
| 3D | 061 | $=$ |  |
| 3E | 062 | > | greater than |
| 3F | 063 | ? |  |
| 40 | 064 | @ | shift P |
| 41 | 065 | A |  |
| 42 | 066 | B |  |
| 43 | 067 | C |  |
| 44 | 068 | D |  |
| 45 | 069 | E |  |
| 46 | 070 | F |  |
| 47 | 071 | G |  |
| 48 | 072 | H |  |
| 49 | 073 | I | letter I |
| 4A | 074 | J |  |
| 4B | 075 | K |  |
| 4 C | 076 | L |  |
| 4D | 077 | M |  |
| 4E | 078 | N |  |
| 4F | 079 | 0 | letter O |
| 50 | 080 | P |  |
| 51 | 081 | Q |  |
| 52 | 082 | R |  |
| 53 | 083 | S |  |
| 54 | 084 | T |  |
| 55 | 085 | U |  |
| 56 | 086 | V |  |
| 57 | 087 | W |  |
| 58 | 088 | X |  |
| 59 | 089 | Y |  |


| HEX Value | Decimal Valuel Code Byte Value | Character | Control Keyboard Eqv |
| :---: | :---: | :---: | :---: |
| 5A | 090 | Z |  |
| 5B | 091 | [ | shift K |
| 5 C | 092 | 1 | shift L |
| 5D | 093 | ] | shift M |
| 5E | 094 | $\wedge$ | à,shift N |
| 5F | 095 | - | \&, shift 0, underscore |
| 60 | 096 | - | accent grave |
| 61 | 097 | a |  |
| 62 | 098 | b |  |
| 63 | 099 | c |  |
| 64 | 100 | d |  |
| 65 | 101 | e |  |
| 66 | 102 | f |  |
| 67 | 103 | g |  |
| 68 | 104 | h |  |
| 69 | 105 | 1 |  |
| 6A | 106 | j |  |
| 6B | 107 | k |  |
| 6 C | 108 | I |  |
| 6D | 109 | m |  |
| 6E | 110 | n |  |
| 6F | 111 | 0 |  |
| 70 | 112 | p |  |
| 71 | 113 | q |  |
| 72 | 114 | $r$ |  |
| 73 | 115 | s |  |
| 74 | 116 | t |  |
| 75 | 117 | u |  |
| 76 | 118 | v |  |
| 77 | 119 | w |  |
| 78 | 120 | x |  |


| HEX Value | Decimal Valuel <br> Code Byte Value | Character | Control <br> Keyboard Eqv |
| :---: | :---: | :---: | :---: |
| 79 | 121 | y |  |
| 7A | 122 | z |  |
| 7B | 123 | $\{$ | vertical slash |
| 7C | 124 | 1 | alt mode |
| 7D | 125 | $\}$ | (alt mode) |
| 7E | 126 | $\sim$ | delete, rubout |
| 7F | 127 | DEL |  |

## Technical Assistance

Contact information for technical support, product service, and repair can be found at www.youjieaidc.com.

## Limited Warranty

Youjie warrants its products to be free from defects in materials and workmanship and to conform to Youjie's published specifications applicable to the products purchased at the time of shipment. This warranty does not cover any Youjie product which is (i) improperly installed or used; (ii) damaged by accident or negligence, including failure to follow the proper maintenance, service, and cleaning schedule; or (iii) damaged as a result of (A) modification or alteration by the purchaser or other party, (B) excessive voltage or current supplied to or drawn from the interface connections, (C) static electricity or electro-static discharge, (D) operation under conditions beyond the specified operating parameters, or (E) repair or service of the product by anyone other than Youjie or its authorized representatives.

This warranty shall extend from the time of shipment for the duration published by Youjie for the product at the time of purchase ("Warranty Period"). Any defective product must be returned (at purchaser's expense) during the Warranty Period to Youjie factory or authorized service center for inspection. No product will be accepted by Youjie without a Return Materials Authorization, which may be obtained by contacting Youjie. In the event that the product is returned to Youjie or its authorized service center within the Warranty Period and Youjie determines to its satisfaction that the product is defective due to defects in materials or workmanship, Youjie, at its sole option, will either repair or replace the product without charge, except for return shipping to Youjie.
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All provisions of this Limited Warranty are separate and severable, which means that if any provision is held invalid and unenforceable, such determination shall not affect the validity of enforceability of the other provisions hereof. Use of any peripherals not provided by the manufacturer may result in damage not covered by this warranty. This includes but is not limited to: cables, power supplies, cradles, and docking stations. Youjie extends these warranties only to the first end-users of the products. These warranties are non-transferable.

The duration of the limited warranty for the 90 days.

