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Zebra Technologies Corporation
Lincolnshire, IL U.S.A.
http://www.zebra.com

Warranty

For the complete Zebra hardware product warranty statement, go to: http://www.zebra.com/warranty.

For Australia Only

For Australia Only. This warranty is given by Zebra Technologies Asia Pacific Pte. Ltd., 71 Robinson Road, #05-02/03, Singapore 068895, Singapore. Our goods come with guarantees that cannot be excluded under the Australia Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Zebra Technologies Corporation Australia's limited warranty above is in addition to any rights and remedies you may have under the Australian Consumer Law. If you have any queries, please call Zebra Technologies Corporation at +65 6858 0722. You may also visit our website: http://www.zebra.com for the most updated warranty terms.
**Introduction**

The LS3008 scanner combines excellent scanning performance and advanced ergonomics to provide the best value in a lightweight laser scanner. Whether used as a hand-held scanner or in hands-free mode in a stand, the scanner ensures comfort and ease of use for extended periods of time. Before programming the scanner, scan the appropriate bar code(s), beginning on page 8, to communicate with the host.

**Parts**

![Diagram of LS3008 scanner parts]

**Inserting and Removing the Interface Cable**

To connect the interface cable, insert the interface cable’s modular connector into the cable interface port.

To remove the interface cable, unplug the installed cable’s modular connector by depressing the connector clip with the tip of a screwdriver.
Aiming

Scanning
## Beeper Definitions

The scanner issues different beep sequences and patterns to indicate status. The table below defines beep sequences that occur during both normal scanning and while programming the scanner.

<table>
<thead>
<tr>
<th>Beeper Sequence</th>
<th>Indication</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Standard Use</strong></td>
<td></td>
</tr>
<tr>
<td>Low/medium/high beep</td>
<td>Power up.</td>
</tr>
<tr>
<td>Short high beep</td>
<td>A bar code symbol was decoded (if decode beeper is enabled).</td>
</tr>
<tr>
<td>4 long low beeps</td>
<td>A transmission error was detected in a scanned symbol. The data is ignored. This occurs if a unit is not properly configured. Check option setting.</td>
</tr>
<tr>
<td>5 low beeps</td>
<td>Conversion or format error.</td>
</tr>
<tr>
<td>Low/high/low beep</td>
<td>ADF transmit error.</td>
</tr>
<tr>
<td>High/high/high/low beep</td>
<td>RS-232 receive error.</td>
</tr>
<tr>
<td><strong>Parameter Menu Scanning</strong></td>
<td></td>
</tr>
<tr>
<td>Short high beep</td>
<td>Correct entry scanned or correct menu sequence performed.</td>
</tr>
<tr>
<td>Low/high beep</td>
<td>Input error, incorrect bar code or “Cancel” scanned, wrong entry, incorrect bar code programming sequence; remain in program mode.</td>
</tr>
<tr>
<td>High/low beep</td>
<td>Keyboard parameter selected. Enter value using bar code keypad.</td>
</tr>
<tr>
<td>High/low/high/low beep</td>
<td>Successful program exit with change in the parameter setting.</td>
</tr>
<tr>
<td>Low/high/low/high beep</td>
<td>Out of host parameter storage space. Scan Set Defaults on page 8.</td>
</tr>
<tr>
<td><strong>Code 39 Buffering</strong></td>
<td></td>
</tr>
<tr>
<td>High/low beep</td>
<td>New Code 39 data was entered into the buffer.</td>
</tr>
<tr>
<td>3 Beeps - long high beep</td>
<td>Code 39 buffer is full.</td>
</tr>
</tbody>
</table>
**LED Definitions**

In addition to beeper sequences, the scanner communicates with the user using a two-color LED display. The table below defines LED colors that display during scanning.

<table>
<thead>
<tr>
<th>LED</th>
<th>Indication</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>No power is applied to the scanner, or the scanner is on and ready to scan.</td>
</tr>
<tr>
<td>Green</td>
<td>A bar code was successfully decoded.</td>
</tr>
<tr>
<td>Red</td>
<td>A data transmission error or scanner malfunction occurred.</td>
</tr>
</tbody>
</table>
## Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
<th>Possible Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nothing happens when the trigger is</td>
<td>No power to the scanner.</td>
<td>Check the system power. Ensure the power supply is connected if the configuration requires a power supply.</td>
</tr>
<tr>
<td>pulled.</td>
<td>Interface/power cables are loose.</td>
<td>Check for loose cable connections.</td>
</tr>
<tr>
<td>Laser comes on, but symbol does not</td>
<td>Scanner is not programmed for the correct bar code type.</td>
<td>Ensure the scanner is programmed to read the type of bar code scanned. Refer to the LS3008 Product Reference Guide, p/n 72E-86092-xx, for more information.</td>
</tr>
<tr>
<td>decode.</td>
<td>Bar code symbol is unreadable.</td>
<td>Check the symbol to ensure it is not defaced. Try scanning test symbols of the same bar code type.</td>
</tr>
<tr>
<td>Distance between scanner and bar code</td>
<td>Move the scanner closer to or further from the bar code.</td>
<td></td>
</tr>
<tr>
<td>is incorrect.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Symbol is decoded but not transmitted</td>
<td>Scanner is not programmed for the correct host type.</td>
<td>Scan the appropriate host type bar code.</td>
</tr>
<tr>
<td>to the host.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scanned data is incorrectly</td>
<td>Scanner is not programmed to work with the host.</td>
<td>Ensure proper host is selected. Check the scanner’s host type parameters or editing options. For RS-232, ensure the scanner’s communication parameters match the host’s settings. For a keyboard wedge configuration, ensure the system is programmed for the correct keyboard type, and the CAPS LOCK key is off. Ensure editing options (e.g., UPC-E to UPC-A conversion) are properly programmed. Refer to the LS3008 Product Reference Guide, p/n 72E-86092-xx, for more information.</td>
</tr>
<tr>
<td>displayed on the host.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Programming Bar Codes

Following are some frequently used programming bar codes.

**NOTE** For additional host types, refer to the LS3008 Product Reference Guide, p/n 72E-86092-xx, available on the LS3008 CD, or on the Zebra Web site: http://www.zebra.com/support.

Set Defaults

Scan **SET DEFAULTS** to set all parameters to their default values.

![SET DEFAULTS](image)

Scanning Modes

Scan the appropriate bar code below to determine the scanning pattern.

- **SINGLE LINE ONLY** - No up and down scan line movement (no raster).
- **MULTI-LINE SMART RASTER** - The scan line begins as a single line and moves up and down (rasters) when a partial scan of a bar code is detected, or no bar code is decoded 500 ms after the trigger is pulled.
- **MULTI-LINE ALWAYS RASTER** (default) - Rastering (up and down scan line movement) begins immediately.

![SINGLE LINE ONLY](image)

![MULTI-LINE SMART RASTER](image)

![MULTI-LINE ALWAYS RASTER (Default)](image)
Host Type

If a Synapse cable is used (i.e., part number STIxx-xxxx), the scanner auto detects the Synapse cable and there is no need to scan bar codes to enable the Synapse host.

If a USB interface is used, the scanner auto detects the USB and defaults to the HID keyboard interface. See page 12 to select the IBM hand-held host type. Refer to the *LS3008 Product Reference Guide*, p/n 72E-86092-xx, for additional USB host types.

If a Keyboard Wedge, RS-232, Wand Emulation, Scanner Emulation, or IBM 46XX is used, the appropriate host type must be scanned. Select the appropriate host type from the bar codes that follow.

**Keyboard Wedge Host Type**

![Barcode for IBM PC/AT and IBM PC COMPATIBLES]

IBM PC/AT and IBM PC COMPATIBLES

**Country Keyboard Types (Country Codes)**

![Barcode for NORTH AMERICAN (Default)]

NORTH AMERICAN (Default)

![Barcode for FRENCH Windows]

FRENCH Windows

![Barcode for FRENCH CANADIAN Windows 95/98]

FRENCH CANADIAN Windows 95/98

![Barcode for French Canadian Windows XP/2000]

French Canadian Windows XP/2000
Country Keyboard Types (Country Codes)

GERMAN Windows

SPANISH Windows

ITALIAN Windows

SWEDISH Windows

UK ENGLISH Windows

JAPANESE Windows

PORTUGUESE-BRAZILIAN Windows
**RS-232 Host Types**

- STANDARD RS-232
- ICL RS-232
- NIXDORF RS-232 MODE A
- NIXDORF RS-232 MODE B
- FUJITSU RS-232
- OPOS/JPOS
USB Host Types

IBM 46XX Host Types

Wand Emulation Host Type

Many Wand hosts require input as Code 39 data. Scan the following bar codes to enable or disable transmission of data to the Wand host as Code 39 data.
**Scanner Emulation Host Type**

Scan the bar code below to enable the Scanner Emulation host.

![Enable Scanner Emulation Host Barcode]

**Carriage Return/Line Feed**

To append a carriage return/line feed to all transmitted data, scan the following bar codes in the order shown. To cancel this operation, the **SET DEFAULTS** bar code on page 8, or refer to the *LS3008 Product Reference Guide*.

![Scan Options Barcode]

![Data Suffix Barcode]

![Enter Barcode]
Ergonomic Recommendations

CAUTION In order to avoid or minimize the potential risk of ergonomic injury follow the recommendations below. Consult with your local Health & Safety Manager to ensure that you are adhering to your company's safety programs to prevent employee injury.

- Reduce or eliminate repetitive motion
- Maintain a natural position
- Reduce or eliminate excessive force
- Keep objects that are used frequently within easy reach
- Perform tasks at correct heights
- Reduce or eliminate vibration
- Reduce or eliminate direct pressure
- Provide adjustable workstations
- Provide adequate clearance
- Provide a suitable working environment
- Improve work procedures.

Regulatory Information

This guide applies to Model Number: LS3008

All Zebra devices are designed to be compliant with rules and regulations in locations they are sold and will be labeled as required.

Any changes or modifications to Zebra equipment, not expressly approved by Zebra, could void the user's authority to operate the equipment.

Local language translations are available at the following web site: http://www.zebra.com/support.
Power Supply

Use ONLY a LISTED, Type no. 50-14000 (5Vdc/500mA minimum) or PWRS-14000 (5Vdc/500mA minimum), Direct Plug-In Power supply, marked Class 2 or LPS (IEC60950-1, SELV). Use of Alternative Power Supply will invalidate any approvals given to this unit and may be dangerous.

Radio Frequency Interference Requirements-FCC

Note: 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.

Radio Frequency Interference Requirements – Canada

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Marking and European Economic Area (EEA)

Statement of Compliance

Zebral hereby declares that this device is in compliance with all the applicable Directives, 2004/108/EC, 2006/95/EC and 2011/65/EU. A Declaration of Conformity may be obtained from http://www.zebra.com/doc.
Other Countries

Ukraine

Laser Devices


The laser classification is marked on one of the labels on the device.

Class 1 Laser devices are not considered to be hazardous when used for their intended purpose. The following statement is required to comply with US and international regulations:

**CAUTION** Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure.

Class 2 laser scanners use a low power, visible light diode. As with any very bright light source, such as the sun, the user should avoid staring directly into the light beam. Momentary exposure to a Class 2 laser is not known to be harmful.

Scanner Labeling

![Scanner Labeling Image]
In accordance with IEC60825-1 and EN60825, the following information is provided to the user:


Service Information

If you have a problem with your equipment, contact Zebra Support for your region. Contact information is available at: http://www.zebra.com/support.
When contacting Zebra Support, please have the following information available:
• Serial number of the unit
• Model number or product name
• Software type and version number
Zebra responds to calls by e-mail, telephone or fax within the time limits set forth in service agreements.
If your problem cannot be solved by Zebra Support, you may need to return your equipment for servicing and will be given specific directions. Zebra is not responsible for any damages incurred during shipment if the approved shipping container is not used. Shipping the units improperly can possibly void the warranty.
If you purchased your Zebra business product from a Zebra business partner, please contact that business partner for support.
For the latest version of this guide go to: http://www.zebra.com/support.