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This Zebra Product may include Zebra Software, Commercial Third Party Software, and Publicly Available software. Refer to Product Reference Guide for complete copyright, conditions and disclaimer information.

**Warranty**

For the complete hardware product warranty statement, go to: [http://www.zebra.com/warranty](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](http://www.zebra.com) for the most updated warranty terms.

**Service Information**

If you have a problem using the equipment, contact your facility’s Technical or Systems Support. If there is a problem with the equipment, they will contact the Global Customer Support Center at: [http://www.zebra.com/support](http://www.zebra.com/support).

For the latest version of this guide go to: [http://www.zebra.com/support](http://www.zebra.com/support).
Scanner Features

- LED
- Scan Window
- Trigger A
- Trigger B
- RFID LED
- RFID Module
Cord Attachment/Removal
Programming Bar Codes

Set Defaults

Carriage Return/Line Feed

USB Host Types

HID Keyboard Emulation

IBM Hand-Held USB

SNAPI with Imaging Interface

SNAPI Without Imaging
IBM 46XX Host Types

Port 5B

Port 9B

Port 17

RS-232 Host Types

Standard RS-232

Nixdorf RS-232 Mode A

Nixdorf RS-232 Mode B
RS-232 Host Types (continued)

- ICL RS-232
- Fujitsu RS-232
- OPOS/JPOS

RFID Same Tag Timeout

- Disable
- 2 Seconds
- 5 Minutes
RFID Trigger Modes

- Continuous
- Single Tag
- Continuous Re-report
- Continuous Flush

RFID Data Transmission Format

- Raw
- GS1-128
- EPC URI
Data Capture

Hands-Free Scanning

Hand-Held Scanning

Triggers

Trigger A

Trigger B
Hands-Free RFID

Hand-Held RFID
### LED Indications

<table>
<thead>
<tr>
<th>Indication</th>
<th>LED</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hand-Held Scanning / RFID</strong></td>
<td></td>
</tr>
<tr>
<td>The scanner is on and ready to scan/read, or no power to the scanner</td>
<td>Off</td>
</tr>
<tr>
<td>The scanner successfully decoded a bar code or read an RFID tag</td>
<td>Green</td>
</tr>
<tr>
<td>Transmission error</td>
<td>Red</td>
</tr>
<tr>
<td><strong>Hands-Free (Presentation) Scanning</strong></td>
<td></td>
</tr>
<tr>
<td>No power to the scanner</td>
<td>Off</td>
</tr>
<tr>
<td>The scanner is ready to scan</td>
<td>Green</td>
</tr>
<tr>
<td>A bar code is successfully decoded</td>
<td>Off momentarily</td>
</tr>
<tr>
<td>Transmission error</td>
<td>Red</td>
</tr>
</tbody>
</table>

### Beeper Indications

<table>
<thead>
<tr>
<th>Indication</th>
<th>Beeper Sequence</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Standard Use</strong></td>
<td></td>
</tr>
<tr>
<td>Power up</td>
<td>Low/medium/high beep</td>
</tr>
<tr>
<td>A bar code is successfully decoded</td>
<td>Short medium beep</td>
</tr>
<tr>
<td>Transmission error, data is ignored</td>
<td>4 long low beeps</td>
</tr>
<tr>
<td><strong>RFID</strong></td>
<td></td>
</tr>
<tr>
<td>An RFID tag was read (if RFID read beeper is enabled)</td>
<td>Medium/high (two-tone) beep</td>
</tr>
<tr>
<td>Unexpected RFID indication</td>
<td>High/medium/low/low beeps</td>
</tr>
<tr>
<td><strong>Parameter Menu Scanning</strong></td>
<td></td>
</tr>
<tr>
<td>Successful parameter setting</td>
<td>High/low/high/low beep</td>
</tr>
<tr>
<td>Correct programming sequence performed</td>
<td>High/low beep</td>
</tr>
<tr>
<td>Incorrect programming sequence, or Cancel bar code scanned</td>
<td>Low/high beep</td>
</tr>
</tbody>
</table>
Optimum Arm Position

Avoid Extreme Wrist Angles

Avoid Bending and Reaching

Alternate left and right hands. Taking breaks and task rotation recommended.
# Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Scanner not working</strong></td>
<td></td>
</tr>
<tr>
<td>No power to scanner</td>
<td>Check system power; ensure power supply, if required, is connected</td>
</tr>
<tr>
<td>Incorrect interface cable used</td>
<td>Use correct interface cable</td>
</tr>
<tr>
<td>Interface/power cables are loose</td>
<td>Ensure all cable connections are secure</td>
</tr>
<tr>
<td><strong>Scanner does not decode bar code</strong></td>
<td></td>
</tr>
<tr>
<td>Scanner not programmed for bar code type</td>
<td>Ensure the scanner is programmed to read the type of bar code being scanned</td>
</tr>
<tr>
<td>Bar code is unreadable</td>
<td>Ensure the bar code is not defaced; scan a test bar code of the same bar code type</td>
</tr>
<tr>
<td>Distance between scanner and bar code is</td>
<td>Move the scanner closer to or further from the bar code</td>
</tr>
<tr>
<td>incorrect</td>
<td></td>
</tr>
<tr>
<td><strong>Scanner decodes bar code but does not transmit data to host</strong></td>
<td></td>
</tr>
<tr>
<td>Scanner not programmed for correct host</td>
<td>Scan appropriate host parameter bar codes</td>
</tr>
<tr>
<td>interface</td>
<td></td>
</tr>
<tr>
<td>Interface cable is loose</td>
<td>Ensure all cable connections are secure</td>
</tr>
<tr>
<td><strong>Scanned data incorrectly displayed on host</strong></td>
<td></td>
</tr>
<tr>
<td>Scanner not programmed for correct host</td>
<td>Scan appropriate host parameter bar codes</td>
</tr>
<tr>
<td>interface</td>
<td></td>
</tr>
</tbody>
</table>
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

The guide applies to the following Model Numbers: DS9808-RUS, DS9808-RWW, and DS9808REU. Local language translations are available at the following website: www.zebra.com/support
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.

Caution

Declared maximum operating temperature: 40° C / 104° F

This guide is available on local languages, translations are available at the following website:
http://www.zebra.com/support

Wireless Device Country Approvals

Regulatory markings, subject to certification, are applied to the device signifying the radio(s) is/are approved for use in the following countries: United States, Canada, Mexico, and Europe. Please refer to the Declaration of Conformity (DoC) for details of other country markings.
This is available at http://www.zebra.com/doc

Note: Europe includes, Austria, Belgium, Bulgaria, Croatia, Czech Republic, Cyprus, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovak Republic, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.
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 Transmitters (Part 15)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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.

Radio Transmitters

This device complies with RSS 210 of Industry & Science Canada. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.

Label Marking: The Term "IC:" before the radio certification only signifies that Industry Canada technical specifications were met.

⚠️ Warnings for Use of Wireless Devices

Please observe all warning notices with regard to the usage of wireless devices.

Potentially Hazardous Atmospheres

You are reminded of the need to observe restrictions on the use of radio devices in fuel depots, chemical plants etc. and areas where the air contains chemicals or particles (such as grain, dust, or metal powders).

Safety in Hospitals

Wireless devices transmit radio frequency energy and may affect medical electrical equipment. Wireless devices should be switched off wherever you are requested to do so in hospitals, clinics or healthcare facilities. These requests are designed to prevent possible interference with sensitive medical equipment.
Pacemakers

Pacemaker manufacturers recommended that a minimum of 15cm (6 inches) be maintained between a handheld wireless device and a pacemaker to avoid potential interference with the pacemaker.

These recommendations are consistent with independent research and recommendations by Wireless Technology Research. Persons with Pacemakers:

- Should ALWAYs keep the device more than 15cm (6 inches) from their pacemaker when turned ON.
- Should not carry the device in a breast pocket.
- Should use the ear furthest from the pacemaker to minimise the potential for interference.
- If you have any reason to suspect that interference is taking place, turn OFF your device.

Other Medical Devices

Please consult your physician or the manufacturer of the medical device, to determine if the operation of your wireless product may interfere with the medical device.

RF Exposure Guidelines

International

The device complies with internationally recognized standards covering human exposure to electromagnetic fields from radio devices. For information on “International” human exposure to electromagnet fields refer to the Zebra Declaration of Conformity (DoC) at http://www.zebra.com/doc.

For further information on the safety of RF energy from wireless devices - see www.zebra.com/corporateresponsibility located under Wireless Communications and Health

Safety Information

Reducing RF Exposure – Use Properly

Only operate the device in accordance with the instructions supplied.

Handheld Devices

To comply with FCC RF exposure requirements, this device must be operated in the hand with a minimum separation distance of 23cm or more from a person's body. Other operating configurations should be avoided.

Europe Handheld Devices

To satisfy EU RF exposure requirements, a mobile transmitting device must operate with a minimum separation distance of 8.3cm or more from a person's body.
Marking and European Economic Area (EEA)

RFID devices for use through the EEA have the following restrictions:

- Maximum radiated transmit power of 2W ERP in the frequency range 865.6-867.6MHz

Statement of Compliance for Wireless Devices Integrated into Terminals

Zebra hereby declares that this device is in compliance with all applicable Directives, 2014/30/EU, 2014/35/EU and 2011/65/EU. The full text of the EU Declaration of Conformity is available at the following internet address: http://www.zebra.com/doc.

Laser Devices


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

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.

Caution
class 2 laser light
when open.
Do not stare into beam.

Attention : lumière
eraser en cas d'ouverture.
Ne pas regarder dans le faisceau.

Vorsicht
laserlicht klasse 2,
wen abdeckung geöffnet.
Nicht in den strahl blicken.

Power Supply

Use only a approved power supply output rated at 12 VDC / 3.3 A (center positive connector).

The power supply shall be Listed to UL/CSA 60950-1; and certified to IEC60950-1 and EN60950-1 with SELV outputs.

Use of alternative power supply will invalidate any approval given to this device and may be dangerous.
Waste Electrical and Electronic Equipment (WEEE)

For EU Customers: All products at the end of their life must be returned to Zebra for recycling. For information on how to return product, please go to: http://www.zebra.com/weee.