Manuals+ — User Manuals Simplified.

ZEBRA LI4278 Linear Imager Instructions

LI4278 LINEAR IMAGER
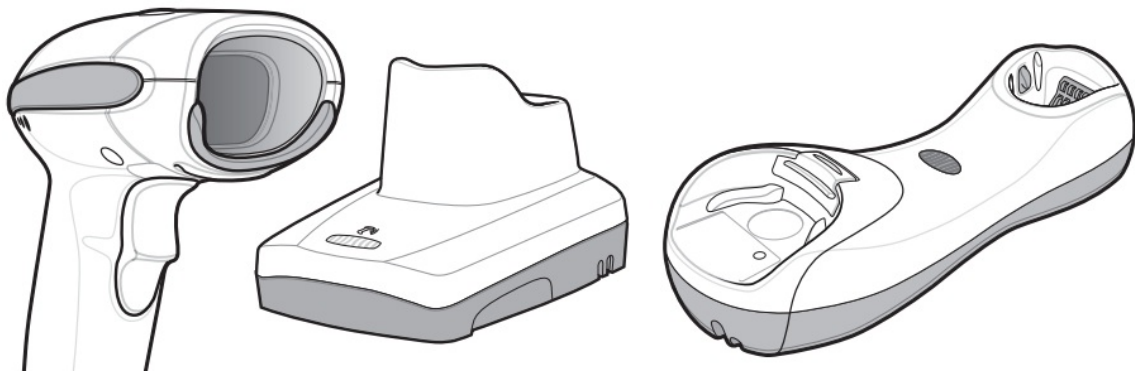
Contents

SCANNING

Aiming

✓ |||||||||||||| 012345   ✗ |||||||||||||| 012345

RECOMMENDED USAGE GUIDE – OPTIMUM BODY POSTURE

Avoid Extreme Wrist Angles

⚠ AVOID EXTREME WRIST ANGLES
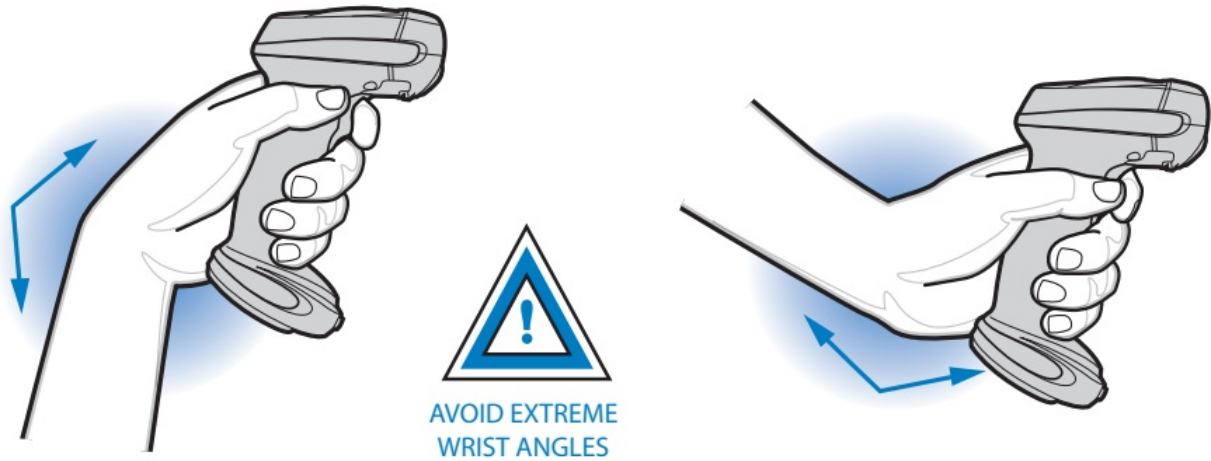
Avoid Bending

⚠ AVOID BENDING

Avoid Reaching

AVOID REACHING

Health and Safety Recommendations

⚠ **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.

BEEPER INDICATIONS

Standard Use

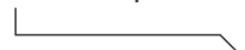| Low/medium/high beep	Short medium beep	4 long low beeps	4 short beeps
Power up	Bar code decoded	Transmission error detected; data is ignored	Low battery

Parameter Menu Scanning

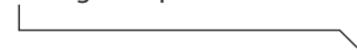| High/low/high/low beep	High/low beep	Low/high beep
Successful parameter setting	Correct programming sequence performed	Incorrect programming sequence or "Cancel" bar code scanned
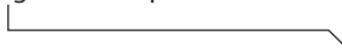
Wireless Operation

High/low/high/low beep	High/low beep	Low/high beep
Pairing bar code scanned	Bluetooth disconnection	Bluetooth connection established

LED INDICATIONS

Hand-Held Scanning

Off	Green	Red
Scanner is on and ready to scan, or no power to scanner	Bar code is successfully decoded	Transmission error

Hands-Free (Presentation) Scanning

Off	Green	Off Momentarily	Red
No power to scanner	Scanner is ready to scan	Bar code is successfully decoded	Transmission error

Charging

Off	Green - Slow Continuous	Green - Fast Continuous	Green - Solid
No power to scanner	Non-critical battery temperature fault	Scanner is charging	Scanner is fully charged

Local Contact:_____

TROUBLESHOOTING

Scanner not working

No power to scanner	Scanner is disabled
Check system power; battery may be discharged; charge scanner in cradle; check battery door is closed; ensure battery end cap is secured	Ensure that correct host interface cable is used

Scanner decoding bar code, but data not transmitting to host

Scanner not programmed for correct host interface	Scanner not paired to host-connected interface	Interface cable is loose	Cradle lost connection to host
Scan appropriate host parameter bar codes	Pair the scanner to the cradle	Ensure all cable connections are secure	In this order: disconnect power supply; disconnect host cable; wait three seconds; reconnect host cable; reconnect power supply; reestablish pairing

LED indicates low battery start-up

Low battery start-up	Cradle communication error
Wait for red LED to turn green indicating scanner is charging	Inspect contacts; remove and reinsert scanner in cradle

Scanner not decoding bar code

Scanner not programmed for bar code type	Bar code unreadable	Distance between scanner and bar code incorrect
Ensure scanner is programmed to read type of bar code being scanned	Ensure bar code is not defaced; try scanning test bar code of same bar code type	Move scanner closer to or further from bar code

Scanned data incorrectly displayed on host

Scanner not programmed for correct host interface

Scan appropriate host parameter bar codes

LED indicates battery temperature

Battery is above or below normal operating temperature

Do not use scanner; move scanner to location with normal operating temperature; refer to the Product Reference Guide for more information

HELPFUL BAR CODES

ADD AN ENTER KEY (Carriage Return/Line Feed)

To add an Enter key after scanned data, scan all THREE bar codes in numerical order.

1
SCAN OPTIONS

2
<DATA><SUFFIX 1>

3
ENTER

ADD A TAB KEY

To add a Tab key after scanned data, scan all THREE Enter key bar codes (left) in numerical order then scan all FIVE bar codes below in numerical order.

1
SCAN SUFFIX

2
7

3
0

4
0

5
9

REGULATORY INFORMATION

Zebra reserves the right to make changes to any product to improve reliability, function, or design. Zebra does not assume any product liability arising out of, or in connection with, the application or use of any product, circuit, or application described herein. No license is granted, either expressly or by implication, estoppel, or otherwise under any patent right or patent, covering or relating to any combination, system, apparatus, machine, material, method, or process in which Zebra products might be used. An implied license exists only for equipment, circuits,

and subsystems contained in Zebra products.

Power Supply

Use only approved power supply. The power supply shall be Listed to UL/CSA 60950-1 and clarified 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.

Warranty

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

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.

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 Zebra Global Customer Support Center at: **http://www.zebra.com/support**.

For the latest version of this guide go to: **http://www.zebra.com/support**.

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**.

Health and Safety Recommendation

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.

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- Reduce or eliminate direct pressure
- Provide adjustable workstations
- Provide adequate clearance
- Provide a suitable working environment
- Improve work procedures.

This guide applies to Model Number: LI4278 and LI4278A. All Zebra devices are designed to be compliant with rules and regulations in locations they are sold and will be labeled as required.Local language translations are available at the following website: **http://www.zebra.com/support**.

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

Bluetooth® Wireless Technology

This is an approved Bluetooth® product. For more information or to view End Product Listing, please visit **https://www.bluetooth.org/tpg/listings.cfm**.

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, Japan, China, S. Korea, Australia, Europe 1,2. and United Kingdom Please refer to the Declaration of Conformity (DoC) for details of other country markings. This is available at **http://www.zebra.com/doc**.

Note1: For 2.4GHz or 5GHz Products: Europe includes, Austria, Belgium, Bulgaria, 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 and Switzerland.

Note 2: The use of RFID Devices have varying restrictions of use; please refer to the Zebra Declaration of Conformity (DoC) for details.

⚠ **Operation of the device without regulatory approval is illegal.**

⚠ **Warnings for Use of Wireless Devices**

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

Safety in Aircraft

Switch of your wireless device whenever you are instructed to do so by airport or airline stat. If your device others a rights mode' or similar feature, consult airline stat as to its use in light.

Safety in Hospitals

Wireless devices transmit radio frequency energy and may affect medical electrical equipment.

Wireless devices should be switched of wherever you are requested to do so in hospitals, clinics or health care 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 minimize 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**

Safety Information

Reducing RF Exposure – Use Properly

Only operate the device in accordance with the instructions supplied.

International

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

LED Devices

Complies with IEC/EN60825-1:2001 & EN 62471: 2008 and IEC62471: 2006 Class 1 LED output.

LED Output – this device contains two LEDs for illumination and aiming.

Aim/Illumination

Optical Output: 0.87mW

Pulse Duration: Continuous

Emitted Wavelength: 590-650nm

Viewing the LED output with certain optical instruments (for example, eye loupes, magnifiers and microscopes) may pose an eye hazard.

Caution: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous LED light exposure.

Statement of Compliance

Zebra hereby declares that this radio equipment is in compliance with Directive 2011/65/EU and 1999/5/EC or 2014/53/EU (2014/53/EU supersedes 1999/5/EC from 13th June 2017).

The full text of the EU Declaration of Conformity is available at the following internet address: **http://www.zebra.com/doc**.

Batteries

Taiwan – Recycling

♻ EPA (Environmental Protection Administration) requires dry battery producing or importing firms in accordance with Article 15 of the Waste Disposal Act are required to indicate the recycling marks on the batteries used in sales, giveaway or promotion. Contact a qualified Taiwanese recycler for proper battery disposal.

Battery Information

Zebra rechargeable battery packs are designed and constructed to the highest standards within the industry. However, there are limitations to how long a battery can operate or be stored before needing replacement. Many factors affect the actual life cycle of a battery pack, such as heat, cold, harsh environmental conditions and severe drops. When batteries are stored over six (6) months, some irreversible deterioration in overall battery quality may occur. Store batteries at half of full charge in a dry, cool place, removed from the equipment to prevent loss of capacity, rusting of metallic parts and electrolyte leakage. When storing batteries for one year or longer, the charge level should be verified at least once a year and charged to half of full charge. Replace the battery when a significant loss of run time is detected. Standard warranty period for batteries is 30 days, regardless if the battery was purchased separately or included as part of the mobile computer or bar code scanner.

Battery Safety Guidelines

- The area in which the units are charged should be clear of debris and combustible materials or chemicals. Take particular care where the device is charged in a non commercial environment.

- Follow battery usage, storage, and charging guidelines found in the user's guide.
- Improper battery use may result in a fire, explosion, or other hazard.
- To charge the mobile device battery, the battery and charger temperatures must be between +32 ºF and +104 ºF (0 ºC and +40 ºC)
- Do not use incompatible batteries and chargers. Use of an incompatible battery or charger may present a risk of fire, explosion, leakage, or other hazard. If you have any questions about the compatibility of a battery or a charger, contact Zebra Global Customer Support Center.
- For devices that utilize a USB port as a charging source, the device shall only be connected to products that bear the USB-IF logo or have completed the USB-IF compliance program.
- Do not disassemble or open, crush, bend or deform, puncture, or shred.
- Severe impact from dropping any battery-operated device on a hard surface could cause the battery to overheat.
- Do not short circuit a battery or allow metallic or conductive objects to contact the battery terminals.
- Do not modify or remanufacture, attempt to insert foreign objects into the battery, immerse or expose to water or other liquids, or expose to fire, explosion, or other hazard.
- Do not leave or store the equipment in or near areas that might get very hot, such as in a parked vehicle or near a radiator or other heat source. Do not place battery into a microwave oven or dryer.
- Battery usage by children should be supervised.
- Please follow local regulations to promptly dispose of used re-chargeable batteries.
- Do not dispose of batteries in fire.
- Seek medical advice immediately if a battery has been swallowed.

Radio Frequency Interference Requirements -FCC

Tested to comply with FCC Standards
FOR HOME OR OFFICE USE

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 of 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.

Radio Transmitters

T This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.

2. This device must accept any interference, including interference that may cause undesired operation of the device.

$\mathsf{C}\,\mathsf{\epsilon}$ Marking and European Economic Area (EEA)

Statement of Compliance

Zebra hereby declares that this radio equipment is in compliance with Directives 2014/53/EU and 2011/65/ EU. Any radio operation limitations within EEA countries are identified in Appendix A of EU Declaration of Conformity. The full text of the EU Declaration of Conformity is available at: zebra.com/doc.
EU Importer: Zebra Technologies B.V
Address: Mercurius 12, 8448 GX Heerenveen, Netherlands

UK CA United Kingdom Statement of Compliance

Zebra hereby declares that this radio equipment is in compliance with the Radio Equipment Regulations 2017 and the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012.
Any radio operation limitations within UK are identified in Appendix A of UK Declaration of Conformity.
The full text of the UK Declaration of Conformity is available at: zebra.com/doc.
UK Importer: Zebra Technologies Europe Limited Address: Dukes Meadow, Millboard Rd, Bourne End, Buckinghamshire, SL8 5XF

Zebra Technologies Corporation Lincolnshire, IL U.S.A.

72-154896-08 Revision A – February 2023

Documents / Resources

ZEBRA LI4278 Linear Imager [pdf] Instructions
LI4278 Linear Imager, LI4278, Linear Imager, Imager

References

- **Anatel — Agência Nacional de Telecomunicações**
- **Zebra Technologies | Visible. Connected. Optimized.**
- **Zebra Technologies | Visible. Connected. Optimized.**
- **Support and Downloads | Zebra**
- **Product Warranty Information | Zebra**
- **WEEE and EU Battery Directive FAQs | Zebra**
- **Launch Studio - Listing Search**