



# RS5100/RSBT5/RS2100 Regulatory Guide



MN-003560-07EN Rev. A

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www.zebra.com

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## Warranty

For the complete Zebra hardware product warranty statement, go to:  
[zebra.com/warranty](https://zebra.com/warranty).

## Service Information

Before you use the unit, it must be configured to operate in your facility's network and run your applications.

If you have a problem running your unit or using your 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 at [zebra.com/support](https://zebra.com/support).

For the latest version of this guide go to:  
[zebra.com/support](https://zebra.com/support).

## Regulatory Information

This device is approved under Zebra Technologies Corporation.

This guide applies to Model Numbers RS5100, RSBT5, and RS2100.

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

Local language translations are available at the following website: [zebra.com/support](https://zebra.com/support).

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

Declared maximum operating temperature: 50°C.

**CAUTION**  
Only use Zebra approved and UL Listed accessories, battery packs and battery chargers.

Do NOT attempt to charge damp/wet mobile computers or batteries. All components must be dry before connecting to an external power source.

## Bluetooth® Wireless Technology

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

## Frequency of Operation – FCC and IC

## 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.

## Warnings for Use of Wireless Devices

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

## Potentially Hazardous Atmospheres – Vehicles Use

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 and any other area where you would normally be advised to turn off your vehicle engine.

## 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 15 cm (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

## 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: [zebra.com/doc](https://zebra.com/doc).

For further information on the safety of RF energy from wireless devices - see [zebra.com/responsibility](https://zebra.com/responsibility) located under Corporate Responsibility.

## Europe

## Handheld Devices

This device was tested for typical body worn operation. Use only Zebra tested and approved belt-clips, holsters, and similar accessories to ensure EU Compliance.

## US and Canada Handheld Devices

This device was tested for typical body worn operation. Use only Zebra tested and approved belt-clips, holsters, and similar accessories to ensure FCC Compliance. The use of third-party belt-clips, holsters, and similar accessories may not comply with FCC RF exposure compliance requirements, and should be avoided.

## Laser Devices

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

## SE5500

- Wavelength: 500-570 nm
- Maximum Output: 1 mW
- Pulse Duration: 4 ms
- Beam Divergence: 18°
- Repetition Rate: 16.7 ms

## SE4770

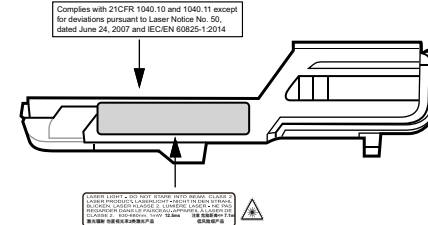
- Wavelength: 630-680 nm
- Maximum Output: 1 mW
- Pulse Duration: 12.5 ms
- Beam Divergence: 42.7
- Repetition Rate: 16.9 ms

## SE4780

- Wavelength: 630-680 nm
- Maximum Output: 1 mW
- Pulse Duration: 8 ms
- Beam Divergence: 42.7
- Repetition Rate: 16.7 ms

## Scanner Labeling RS5100/RSBT5

## SE4770

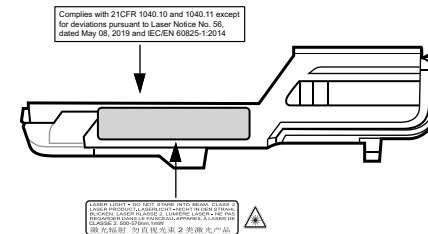


Labels read:

LASER LIGHT - DO NOT STARE INTO BEAM. CLASS 2 LASER PRODUCT. 630-680 nm 1 mW 12.5ms 注意 危险距离 <= 7.1m 低风险级产品 .

Complies with 21CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007 and IEC/EN 60825-1:2014.

## SE5500

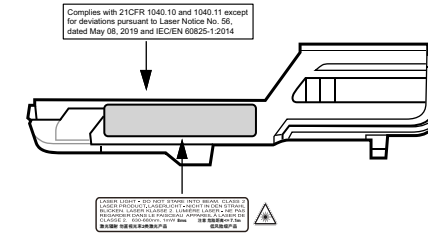


Labels read:

LASER LIGHT - DO NOT STARE INTO BEAM. CLASS 2 LASER PRODUCT. 500-570 nm 1 mW 4 ms

Complies with 21 CFR1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 56, DATED May 08, 2019 and IEC/EN 60825-1:2014.

## SE4780



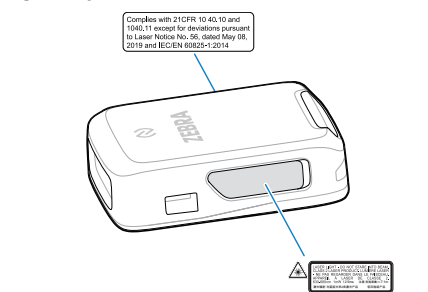
Labels read:

LASER LIGHT - DO NOT STARE INTO BEAM. CLASS 2 LASER PRODUCT. 630-680 nm 1 mW 8ms 注意 危险距离 <= 7.1m 低风险级产品 .

Complies with 21 CFR1040.10 and 1040.11 except for deviations pursuant to Laser No. 56, DATED May 8, 2019 and IEC/EN 60825-1:2014.

## RS2100

## SE4770

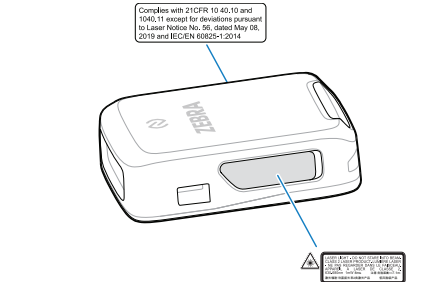


Labels read:

LASER LIGHT - DO NOT STARE INTO BEAM. CLASS 2 LASER PRODUCT. 630-680 nm 1 mW 12.5ms 注意 危险距离 <= 7.1m 低风险级产品 .

Complies with 21 CFR1040.10 and 1040.11 except for deviations pursuant to Laser No. 56, DATED May 8, 2019 and IEC/EN 60825-1:2014.

## SE4780



Labels read:

LASER LIGHT - DO NOT STARE INTO BEAM. CLASS 2 LASER PRODUCT. 630-680 nm 1 mW 8ms 注意 危险距离 <= 7.1m 低风险级产品 .

Complies with 21 CFR1040.10 and 1040.11 except for deviations pursuant to Laser No. 56, DATED May 8, 2019 and IEC/EN 60825-1:2014.

## LED Devices

Classified as 'EXEMPT RISK GROUP' according to IEC 62471:2006 and EN 62471:2008.

- Pulse Duration of 17.7 ms for SE4770
- Pulse Duration of CW for SE5500 Batteries
- Pulse Duration of 4 ms for SE4780

## 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

 **CAUTION** Risk of explosion if battery is replaced by an incorrect type. Dispose of batteries according to instructions.

Use only Zebra approved batteries. Accessories which have battery charging capability are approved for use with the following battery models:  
RSS100/RSBT5  
Model BT-000397 (3.7 Vdc, 480 mAh)  
Model BT-000398 (3.7 Vdc, 735 mAh).

Zebra approved rechargeable battery packs are designed and constructed to the highest standards within the industry. However, there are limitations as 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 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 all Zebra batteries is one year, regardless if the battery was purchased separately or included as part of the mobile computer or bar code scanner. For more information on Zebra batteries, please visit: [zebra.com/batterybasics](http://zebra.com/batterybasics).

## Battery Safety Guidelines

The area in which the units are charged should be clear of debris and combustible materials or chemicals. Particular care should be taken 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 +41 °F and +104 °F (5 °C and +40 °C)
- 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 support.
- 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.
- In the event of a battery leak, do not allow the liquid to come in contact with the skin or eyes. If contact has been made, wash the affected area with large amounts of water and seek medical advice.
- If you suspect damage to your equipment or battery, contact Zebra support to arrange for inspection.

## Radio Frequency Interference Requirements-FCC

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.  
**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

Innovation, Science and Economic Development Canada  
ICES-003 Compliance Label: CAN ICES-3 (B)/NMB-3(B)

## Radio Transmitters

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions: (1) This device may not cause interference; and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radio électrique subi même si le brouillage est susceptible d'en compromettre le fonctionnement.

## CE Marking and European Economic Area (EEA)

EU Importer / Importador de la UE / UE-Importeur / Importatore UE / Importador da UE / Importer UE / Uvoznik za EU / Importateur UE  
ZEBRA TECHNOLOGIES B.V.  
Mercurius 12, 8448 GX, Heerenveen, Netherlands

## Statement of Compliance

Zebra hereby declares that this radio equipment is in compliance with the Directives, 2014/53/EU and 2011/65/EU.

The full text of the EU Declaration of Conformity is available at the following internet address: [zebra.com/doc](http://zebra.com/doc).

## UK Statement of Compliance CA

Radio enabled devices: Zebra hereby declares that this 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 Conformities is available at: [zebra.com/doc](http://zebra.com/doc).

## UK Importer

ZEBRA TECHNOLOGIES EUROPE LIMITED  
Address: Dukes Meadow, Millboard Rd, Bourne End, Buckinghamshire SL8 5XF

## Korea Warning Statement for Class B ITE

| 기종별                     | 사용자안내문                                                                 |
|-------------------------|------------------------------------------------------------------------|
| B 급 기기<br>(가정용 방송통신기자재) | 이 기기는 가정용 (B 급) 전자파적합기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다. |

## Other Countries

### Brazil

Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados

### Chile

Conforme a Resolución 755 parte j.1), se ajustará el dispositivo a operar en interiores en las siguientes bandas con una potencia máxima radiada no superior a 150mW: 2.400 a 2.483,5MHz  
Para la tecnología NFC en la banda 13.553 a 13.567 kHz, la intensidad de campo eléctrico no excederá 20 mV/m a 30 metros, conforme a Resolución 755 parte Art 1. e).

### China

通过访问以下网址可下载当地语言支持的产品说明书  
[zebra.com/support](http://zebra.com/support)  
锂电池安全警示语：  
警告：请勿拆装，短路，撞击，挤压或者投入火中  
注意：如果电池被不正确型号替换，或出现鼓胀，会存在爆炸及其他危险  
请按说明处置使用过的电池  
电池浸水后严禁使用  
合格证：



## 光学辐射安全

GB/T 7247.1-2024 等同采用 IEC60825-1:2014 标准  
;GB44703; 危险距离 <= 7.1 m

| 光辐射安全风险等级 |     | △ 注意 |                                  |
|-----------|-----|------|----------------------------------|
| 高风险等级     | 本产品 |      | 2类激光产品<br>勿直视激光束<br>危险距离 <= 7.1m |
| 中风险等级     |     |      |                                  |
| 低风险等级     |     |      |                                  |
| 免除级       |     |      |                                  |

在危险距离之内不应照射人体及其他非预期物体（如动物）；  
请严格按照随附文档的规定进行操作、使用

## Eurasian Customs Union

## Евразийский Таможенный Союз

Данный продукт соответствует требованиям знака ЕАС.

## EAC

## Mexico

La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

## Taiwan

### 臺灣

低功率電波輻射性電機管理辦法

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用 者均不得擅自 變更頻率、加大功率或變更原設計之特性及 功能。

低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經 發現有干擾現象時，應立即停用，並改善至無干擾時方得繼 續使用。

前述合法通信，指依電信管理法規定作業之無線電通信。低功 率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射 性電機設備之干擾。

公司資訊 台灣斑馬科技股份有限公司 / 台北市信義區松高路 9 號 13 樓

## Ukraine

Дане обладнання відповідає вимогам технічного регламенту № 1057, 2008 на обмеження щодо використання деяких небезпечних речовин в електричних та електронних пристроях.

## Thailand

เครื่องโทรคมนาคมและอุปกรณ์นี้ มีความสอดคล้องตามข้อกำหนดของ กทช.

## Turkish WEEE Statement of Compliance

EEE Yönetmeliğine Uygundur.

## Waste Electrical and Electronic Equipment (WEEE)

For all EU and UK Customers: For products at the end of their life, please refer to recycling/disposal advice at [zebra.com/weee](http://zebra.com/weee).

## CMM Disclosure

| 有害物质                   | 部件名称 (Parts)           |
|------------------------|------------------------|
|                        | 电路模块 (Circuit Modules) |
| 铅 (Pb)                 | X                      |
| 汞 (Hg)                 | ○                      |
| 镉 (Cd)                 | ○                      |
| 六价铬 (Cr(VI))           | ○                      |
| 多溴联苯 (PBB)             | ○                      |
| 多溴二苯醚 (PBDE)           | ○                      |
| 邻苯二甲酸双(2-乙基己基)酯 (DEHP) | ○                      |
| 邻苯二甲酸丁苄酯(BBP)          | ○                      |
| 邻苯二甲酸二丁酯(DBP)          | ○                      |
| 邻苯二甲酸二异丁酯(DIBP)        | ○                      |

○: 表示该有害物质在该部件所有均质材料中的含量不超出电器电子产品有害物质限制使用国家标准要求。

X: 表示该有害物质至少在该部件的某一均质材料中的含量超出电器电子产品有害物质限制使用国家标准要求。

以上未列出的部件，表明其有害物质含量均不超出电器电子产品有害物质限制使用国家标准要求。

This table was created to comply with China RoHS requirements.