

Regulatory Information

This device is approved under Zebra Technologies Corporation.

This guide applies to the following model numbers:

- WS5012

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 translation / (BG) Превод на местен език / (CZ) Překlad do místního jazyka / (DE) Übersetzung in die Landessprache / (EL) Μετάφραση τοπικής γλώσσας / (ES) Traducción de idiomas locales / (ET) Kohaliku keele tõlge / (FI) Paikallinen käännös / (FR) Traduction en langue locale / (HR) Prijevod na lokalni jezik / (HU) Helyi nyelvű fordítás / (IT) Traduzione in lingua locale / (JA) 現地語翻訳 / (KR) 현지 언어 번역 / (LT) Vietinės kalbos vertimas / (LV) Tulkojums vietējā valodā / (NL) Vertaling in lokale taal / (PL) Tłumaczenie na język lokalny / (PT) Tradução do idioma local / (RO) Traducere în limba locală / (RU) Перевод на местный язык / (SK) Preklad do miestneho jazyka / (SL) Prevajanje v lokalni jezik / (SR) Превод на локални језик / (SV) Översättning av lokalt språk / (TR) Yerel dil çevirisi / (ZH-CN) 当地语言翻译 / (ZH-TW) 當地語言翻譯

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: 40°C.



CAUTION: Only use Zebra approved and NRTL-certified accessories, battery packs, and battery chargers.

Do NOT attempt to charge damp/wet mobile computers, printers 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 on the Bluetooth SIG listing, please visit bluetooth.com.

Regulatory Markings

Regulatory markings subject to certification are applied to the device. Refer to the Declaration of Conformity (DoC) for details of other country markings. The DoC is available at: zebra.com/doc.

The regulatory marks specific to this device (including UL, FCC, and ISED) are available on the screen of the device by following these instructions:

Go to **Settings > Regulatory**.

Health and Safety Recommendations

This section provides important health and safety recommendations.

Ergonomic Recommendations

To avoid or minimize the potential risk of ergonomic injury, always follow good ergonomic workplace practices. Consult with your local Health and Safety Manager to ensure that you are adhering to your company's safety programs to prevent employee injury.

Safety in Hospitals and Aircraft



Wireless devices transmit radio frequency energy that may affect medical electrical equipment and aircraft's operation.

Wireless devices should be switched off wherever you are requested to do so in hospitals, clinics, healthcare facilities or by airline staff.

These requests are designed to prevent possible interference with sensitive types of equipment.

Medical Devices Compatibility

It is recommended that a minimum separation distance of 20 cm (8 in.) be maintained between a wireless device and medical devices such as pacemakers, defibrillators, or other implantable devices to avoid potential interference with the medical device. Pacemaker users should keep the device on the opposite side of the pacemaker or turn the device off if they suspect interference. Please consult your physician or the medical device manufacturer to determine if the operation of your wireless product may interfere with the medical device.

RF Exposure Guidelines



CAUTION: Important Safety Information

Reducing RF Exposure – Use Properly

Only operate the device in accordance with the instructions supplied.

The device complies with internationally recognized standards covering human exposure to electromagnetic fields. For information on international human exposure to electromagnetic fields, refer to the Zebra Declaration of Conformity (DoC) at zebra.com/doc.

Use only Zebra-tested and approved headsets, belt clips, holsters, and similar accessories to ensure RF exposure compliance. If applicable, follow the instructions for use as detailed in the accessory guide.

The use of third-party belt clips, holsters, and similar accessories may not comply with RF exposure compliance requirements and should be avoided.

For further information on the safety of RF energy from wireless devices, refer to RF exposure and assessment standards section at zebra.com/responsibility.

To satisfy RF exposure requirements, this device must operate with a minimum separation distance of 1 cm or more from a user's body and nearby persons.

Optical Devices



Laser

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.

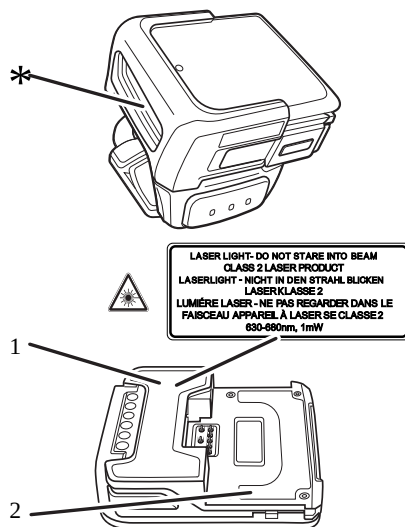


CAUTION: Use of controls, adjustments, or the performance of procedures other than those specified in the supplied product documentation may result in hazardous laser light exposure.

SR560

- Wavelength: 630-680 nm
- Maximum output: 1 mW
- Pulse duration: 8 ms
- Beam divergence: 42.7 °
- Repetition rate: 16.7 ms

Scanner Labeling



Labels read:

1. Laser Light — do not stare into beam.
Class 2 Laser product. 630-680 nm, 1 mW (applied to List red laser scanner models)
 2. 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.
 3. Caution — Class 2 laser light when open. Do not stare into the beam.
- * CAUTION: Laser light emitted from this aperture.

LED

Risk Group classified according to IEC 62471:2006 and EN 62471:2008.

- SR560 Pulse Duration: 4 msExempt Group RG0
- SE4770 Pulse Duration: 17.7 msExempt Group RG0

Batteries and Power Packs

This information applies to Zebra-approved batteries and power packs containing batteries.

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:

- Model BT-000446A (3.85 VDC, 2400 mAh)
- Model BT-000446B (3.85 VDC, 1300 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 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 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 host device. For more information on Zebra batteries, please visit: zebra.com/batterydocumentation and select the Battery Best Practices link.

Battery Safety Guidelines



IMPORTANT: SAFETY INSTRUCTIONS – SAVE THESE INSTRUCTIONS



WARNING: When using this product basic safety precautions should always be followed, including the following:

- 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.
- Read all the instructions before using the product.
- 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.
- Batteries subjected to extremely low air pressure may result in an explosion or the leakage of flammable liquid or gas.
- To charge the mobile device battery, the battery and charger temperatures must be between 2°C and 46°C (35.6°F and 114.8°F).

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- 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. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion, or risk of injury.
 - 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, disassemble, or remanufacture, attempt to insert foreign objects into the battery, immerse or expose to water, rain, snow 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.
 - To reduce the risk of injury, close supervision is necessary when used near children.
 - Please follow local regulations to promptly dispose of used re-chargeable batteries.
 - Do not dispose of batteries in fire. Exposure to temperatures over 100°C (212°F) may cause explosion.
 - 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.

Marking and European Economic Area (EEA)

Statement of Compliance

Zebra hereby declares that this radio equipment complies with Directives 2014/53/EU and 2011/65/EU.

Appendix A of the EU Declaration of Conformity identifies any radio operation limitations within EEA countries. The full text of the EU Declaration of Conformity is available at zebra.com/doc.

Environmental Compliance

For compliance declarations, recycling information, and materials used for products and packaging, please go to zebra.com/environment.

EU Importer: Zebra Technologies B.V

Address: Mercurius 12, 8448 GX Heerenveen, Netherlands

Waste Electrical and Electronic Equipment (WEEE)

For EU and UK Customers: For products at the end of their life, refer to recycling/disposal advice at zebra.com/weee.

United States and Canada Regulatory

Radio Frequency Interference Notices

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.

Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems, including drones.

The operation of this device is prohibited on oil platforms and aircraft, except that the operation of this device in 5.925-6.425 GHz is permitted in large aircraft while flying above 10,000 feet.

Installation on outdoor fixed infrastructure is prohibited.

Radio Frequency Interference Requirements – Canada

This device complies with Innovation, Science and Economic Development 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.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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.

This device is restricted to indoor use when operating in the 5,150 to 5,350 MHz frequency range.

Lorsqu'il fonctionne dans la plage de fréquences 5 150–5 350 MHz, cet appareil doit être utilisé exclusivement en extérieur.

RF Exposure Requirements - FCC and ISED

The FCC has granted Equipment Authorization for this device with all reported SAR levels evaluated in compliance with the FCC RF emission guidelines. SAR information on this device is on file with the FCC and can be found under the Display Grant section of [fcc.gov/oet/ea/fccid](https://www.fcc.gov/oet/ea/fccid).

To satisfy RF exposure requirements, this device must operate with a minimum separation distance of 1 cm or more in front of the user's mouth and nearby persons.

Pour satisfaire aux exigences d'exposition RF, cet appareil doit fonctionner avec une distance de séparation minimale de 1 cm devant la bouche de l'utilisateur ou des personnes à proximité.

To satisfy RF exposure requirements, this device must be wrist-worn only and, where applicable, used only with Zebra-tested and approved accessories.

Pour être conforme à la réglementation relative à l'exposition RF, cet appareil doit être uniquement porté au poignet ou à la cheville et, lorsque cela est applicable, utilisé uniquement avec des accessoires testés et approuvés par Zebra.

日本



このデバイスと一緒に販売されている充電式バッテリーには、回収、処理、リサイクルできる貴重な金属やその他の素材が含まれています。充電式バッテリーパックを安全に廃棄する方法については、最寄りのリサイクルセンターにお問い合わせください。

Brasil

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

Este produto está homologado pela Anatel de acordo com os procedimentos regulamentados para avaliação da conformidade de produtos para telecomunicações e atende aos requisitos técnicos aplicáveis, incluindo os limites de exposição da Taxa de Absorção Específica referente a campos elétricos, magnéticos e eletromagnéticos de radiofrequência.

Valores máximo de SAR medidos: 0,269 W/kg

中国

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。

如果配套使用外部电源适配器，请确保其已通过CCC 认证。

使用微功率短距离无线电发射设备应当符合国家无线电管理有关规定

- (一) 符合“微功率短距离无线电发射设备目录和技术要求”的具体条款和使用场景，采用的天线类型和性能，控制、调整及开关等使用方法；
- (二) 不得擅自改变使用场景或使用条件、扩大发射频率范围、加大发射功率（包括额外加装射频功率放大器），不得擅自更改发射天线；
- (三) 不得对其他合法的无线电台（站）产生有害干扰，也不得提出免受有害干扰保护；
- (四) 应当承受辐射射频能量的工业、科学及医疗（ISM）应用设备的干扰或其他合法的无线电台（站）干扰；

- (五) 如对其他合法的无线电台（站）产生有害干扰时，应立即停止使用，并采取措施消除干扰后方可继续使用；
- (六) 在航空器内和依据法律法规、国家有关规定、标准划设的射电天文台、气象雷达站、卫星地球站（含测控、测距、接收、导航站）等军民用无线电台（站）、机场等的电磁环境保护区域内使用微功率设备，应当遵守电磁环境保护及相关行业主管部门的规定；
- (七) 禁止在以机场跑道中心点为圆心、半径5000米的区域内使用各类模型遥控器；
- (八) 有关支持的工作环境条件，请参阅本指南的最高工作温度以及电池信息和电源信息部分。



光学辐射安全

GB/T 7247.1-2024等同采用IEC60825-1:2014标准; GB44703



光辐射安全风险等级	
高风险等级	本产品
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

产品中有害物质的名称及含量

有害物质	部件名称(Parts)	
	金属部件 (Metal Parts)	电路模块 (Circuit Modules)
铅 (Pb)	X	X
汞 (Hg)	O	O
镉 (Cd)	O	O
六价铬 (Cr(VI))	O	O
多溴联苯 (PBB)	O	O
多溴二苯醚 (PBDE)	O	O

邻苯二甲酸双(2-乙基己基)酯 (DEHP)	O	O
邻苯二甲酸丁苄酯 (BBP)	O	O
邻苯二甲酸二丁酯 (DBP)	O	O
邻苯二甲酸二异丁酯 (DIBP)	O	O
O: 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.		

Евразийский Таможенный Союз (EAC)

Данный продукт соответствует требованиям знака EAC.



France

Cet appareil a été testé et déclaré conforme aux limites applicables d'exposition aux radiofréquences (RF).

Le débit d'absorption spécifique (DAS) local quantifie l'exposition de l'utilisateur aux ondes électromagnétiques de l'équipement concerné.

Les valeurs SAR les plus élevées sont disponibles sur la déclaration de conformité (DoC) disponible sur: zebra.com/doc.

México

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.

Opción 1: Ir a Ajustes > Acerca del teléfono.

Opción 2: Vaya a la aplicación Teléfono: Marque *#06#.

臺灣

低功率射頻器材技術規範

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。

應避免影響附近雷達系統之操作

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



行政院環保署 (EPA) 要求乾電池製造或進口商，需依廢棄物清理法第 15 條之規定，於販售、贈送或促銷的電池上標示回收標誌。請聯絡合格的台灣回收廠商，以正確棄置電池。

限用物質含有情況標示聲明書

設備名稱：穿戴式電腦			型號（型式）：WS5012, WS5012 RFID Model Type designation (Type) : WS5012, WS5012 RFID			
單元Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛 (Pb)	汞 (Hg)	鎘 (Cd)	六價鉻 (Cr+6)	多溴聯苯 (PBB)	多溴二苯醚 (PBDE)
印刷電路板及電子組件 Printed Circuit	—	O	O	O	O	O
金屬零件 Metal Parts	—	O	O	O	O	O
電纜及電纜組件 Cables and Cable Assemblies	O	O	O	O	O	O
塑料和聚合物零件 Plastic and Polymer Parts	O	O	O	O	O	O
光學與光學元件— Optics and Optical Components	O	O	O	O	O	O
打印頭 Printhead	O	O	O	O	O	O
備考1. “超出0.1 wt %” 及 “超出0.01 wt %” 係指限用物質之百分比含量超出百分比含量基準值。 備考2. “O” 係指該項限用物質之百分比含量未超出百分比含量基準值。 備考3. “—” 係指該項限用物質為排除項目。 Note 1: “Exceeding 0.1 wt%” and “exceeding 0.01 wt%” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition. Note 2: “O” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence. Note 3: The “—” indicates that the restricted substance corresponds to the exemption.						

Türkiye

TÜRK WEEE Uyumluluk Beyanı

EEE Yönetmeliğine Uygundur.

United Kingdom

UK Importer: Zebra Technologies Europe Limited

Address: Dukes Meadow, Millboard Rd, Bourne End, Buckinghamshire, SL8 5XF

Warranty

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

Service Information

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

If you have a problem running your device or using your equipment, contact your facility's Technical or System Support. If there is a problem with the equipment, they will contact Zebra support at zebra.com/support.

For the latest version of the guide, go to zebra.com/support.

Software Support

Zebra wants to ensure that customers have the latest entitled software at the time of device purchase to keep the device operating at peak performance levels. To confirm that your Zebra device has the latest entitled software available at the time of purchase, go to zebra.com/support.

Check for the latest software from **Support > Products**, or search for the device and select **Support > Software Downloads**.

If your device does not have the latest entitled software as of your device purchase date, email Zebra at entitlementservices@zebra.com and ensure you include the following required device information:

- Model number
- Serial number
- Proof of purchase
- Title of the software download you are requesting.

If it is determined by Zebra that your device is entitled to the latest version of software, as of the date you purchased your device, you will receive an email containing a link directing you to a Zebra website to download the appropriate software.

Product Support Information

- For information on using this product, refer to the User Guide/Product Reference Guide at zebra.com/ws501-info.
- To find quick answers to known product behaviors, access our knowledge articles at supportcommunity.zebra.com/s/knowledge-base.
- Ask your questions in our Support community at supportcommunity.zebra.com.
- Download product manuals, drivers, software, and view how-to videos at zebra.com/support.
- To request a repair for your product, go to zebra.com/repair.

Patent Information

To view Zebra patents, go to ip.zebra.com.