

DIGITAL SCANNER

DS4678

Quick Reference Guide

MN-004891-05EN Rev. A



Zebra Technologies | 3 Overlook Point | Lincolnshire, IL 60069 USA
zebra.com

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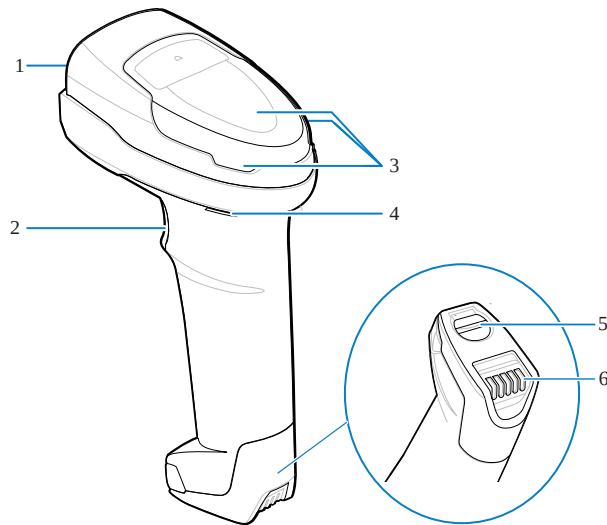
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Scanner Features

This section lists the features of the DS4678.

Figure1 Rear View



1	Scan window
2	Scan trigger
3	LEDs
4	Beeper
5	Battery/PowerCap Compartment Knob
6	Charging Contacts

Aiming

Aim the DS4678 scan window at the center of the barcode.

If necessary, the scanner turns on its illumination LEDs to illuminate the barcode. The scanner decodes barcodes only when the dot is on the barcode. The first example in [Figure: Scanner Aiming](#) shows an acceptable aiming option, while the second shows an aiming pattern that will not decode.

Figure 2 Scanner Aiming

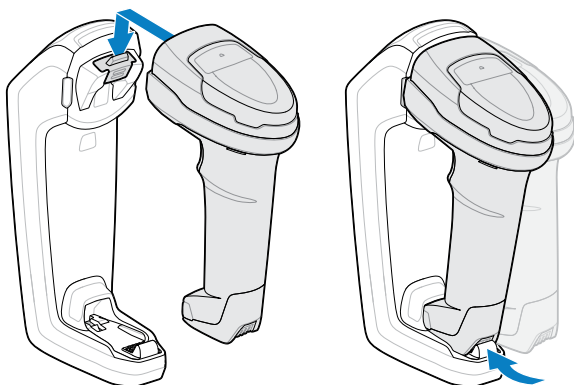
The aiming dot is smaller when the scanner is closer to the barcode and larger when it is farther away. Scan barcodes with smaller bars or elements (mil size) closer to the scanner and those with larger bars or elements (mil size) farther from the scanner.

The scanner beeps to indicate that it successfully decoded the barcode. For more information on beeper and LED definitions, see the [Scanner Indications Table](#).

Inserting the Scanner into the CR8178A-SC Cradle

The CR8178A-SC cradle charges the DS4678. Insert the scanner into the cradle to charge.

1. Insert the scanner into the cradle top first, ensuring that the cradle latch depression connects with the scanner latch on the cradle.
2. Push the handle until it clicks into place, engaging the contacts in the cradle and the scanner.



Inserting/Removing the Battery/PowerCap

The battery/PowerCap ships separately from the scanner. Place the battery/PowerCap into the DS4678. Replace the DS4678 battery/PowerCap with a fresh one when the existing battery/PowerCap is unhealthy or has a low charge.



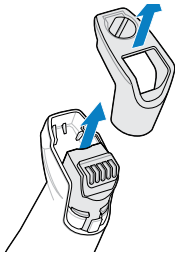
IMPORTANT: PowerCap requires firmware version PAAGYS00-005-R00 or newer.

1. Unlock the battery/PowerCap cover.

Use a disk (for example, a coin) to rotate the lock counterclockwise.

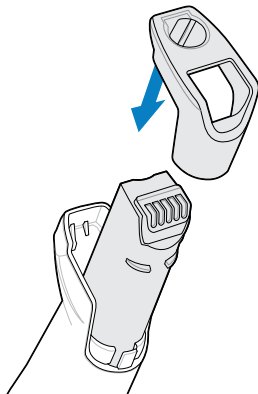


2. Remove the battery/PowerCap cover.



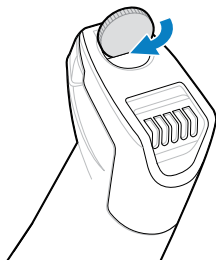
3. Insert/remove the battery/PowerCap.

4. Replace the battery/PowerCap cover.



5. Lock the battery/PowerCap cover.

Use a disk (for example, a coin) to rotate the lock clockwise.



6. Charge the battery/PowerCap before use.

Connecting to a Host

Connect the cradle to a host device. This enables the DS4678 to share scan data and configuration information with the host.

1. Connect the host to the cradle.

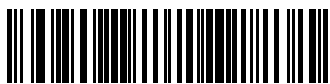
Go to the host type section ([USB](#), [RS-232](#), [Keyboard Wedge](#), or [IBM](#)) for a diagram illustrating the connection.

2. Pair the scanner by inserting it into the cradle. The scanner indicates a successful pairing with a low/high beep.
3. Ensure the cradle detects the correct host type.
 - If the cable automatically detects the correct host type, the scanner is ready for use.
 - If the cable fails to detect the correct host type, scan the relevant barcode in the host type section.

USB Host Interface

Connect the DS4678 to the USB device. If necessary, scan the appropriate barcode to finish connecting the devices.

Figure 3 USB Connection



*USB HID Keyboard



IBM Hand-held USB



OPOS (IBM Hand-held with Full Disable)

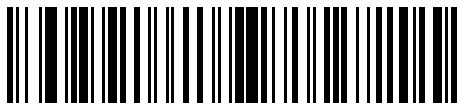


Symbol Native API (SNAPI) with Imaging Interface

RS-232 Host Connection

Connect the DS4678 to the RS-232 device. If necessary, scan the appropriate barcode to finish connecting the devices.

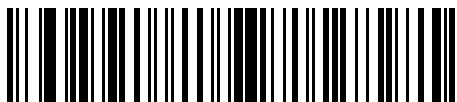
Figure 4 RS-232 Connection



*Standard RS-232



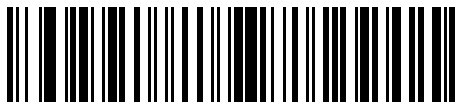
ICL RS-232



Nixdorf RS-232 Mode A



Nixdorf RS-232 Mode B



OPOS/JPOS

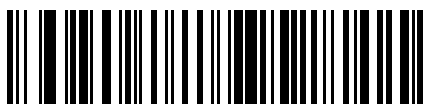


Fujitsu RS-232

Keyboard Wedge Host Connection

Connect the DS4678 to the keyboard wedge device. If necessary, scan the appropriate barcode to finish connecting the devices.

Figure 5 Keyboard Wedge cradle connection



IBM PC/AT & IBM PC Compatibles

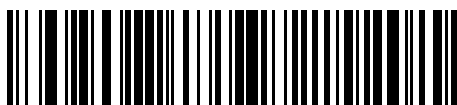


*IBM AT Notebook

IBM Host Connection

Connect the DS4678 to an IBM 46XX device. If necessary, scan the appropriate barcodes.

Figure 6 IBM 46XX Connection



Non-IBM Scanner Emulation (Port 5B)



Hand-Held Scanner Emulation (Port 9B)

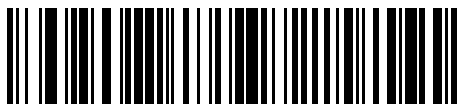


Table-Top Scanner Emulation (Port 17)

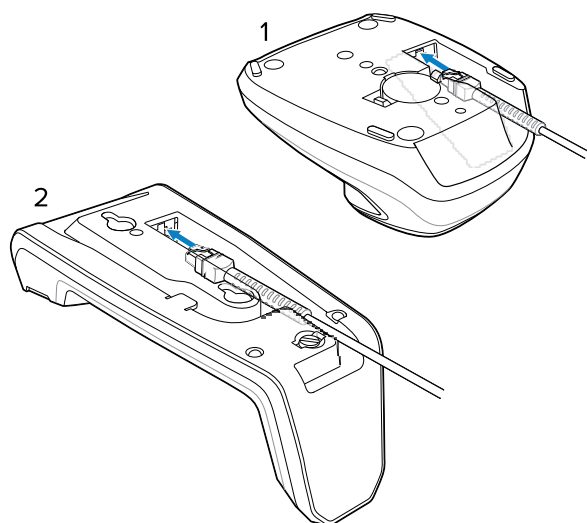
Cradle Cable Connection

Insert the cable with the cable's locking tab facing you. The DS4678 uses the CR8178A-PC and CR8178A-SC cradles.



NOTE: The charge cradles shown below are not included with the scanner and must be purchased separately.

1. CR8178A-PC 2. CR8178A-SC



Useful Barcodes

Scan these barcodes to configure common scanner settings. For a full list of scanner barcodes, refer to the Product Reference Guide.



Set Defaults



Add a Tab Key



Add an Enter Key



Override Caps Lock Key (Enable)



*Do Not Override Caps Lock Key (Disable)

Beeper Indications

The scanner emits different beeps to communicate its status. The following table lists the meaning of each beeper sequence.

Indication	Beeper Sequence
Power up	Low/medium/high beeps
Barcode decoded	Medium beep
Transmission error detected; data is ignored	Four long low beeps
Successful parameter setting	High/low/high/low beeps
Correct programming sequence performed	High/low beeps
Incorrect programming sequence or Cancel barcode is scanned	Long low/long high beeps
Low battery/PowerCap indication when trigger releases	Four short high beeps

LED Indications

The scanner's LEDs illuminate to indicate scanner status. The following table describes the meanings of the LED indications.

Indication	LED Indicator
Hand-Held Scanning	
The scanner is on and ready to scan, or no power to the scanner	Off
Barcode is successfully decoded	Green flash
Transmission error	Red
Paging state	Blue (fast fast slow)
Hands-Free (Presentation) Scanning	
No power to scanner	Off
Digital scanner is ready to scan	Green
Barcode is successfully decoded	Off momentarily
Transmisison error	Red

123Scan

123Scan is a software tool from Zebra Technologies that simplifies scanner setup and more.

Intuitive enough for first-time users, the 123Scan wizard guides users through a streamlined setup process. Settings are saved in a configuration file that can be printed as a single programming barcode for scanning, emailed to a smart phone for scanning from its screen or downloaded to the scanner using a USB cable.

Through 123Scan a user can:

- Configure a scanner using a wizard.
 - Program the following scanner settings.
 - Beeper tone/volume settings.
 - Enable/disable symbologies.
 - Communication settings.
 - Modify data before transmission to a host using:
 - Advanced Data Formatting (ADF) - Scans one barcode at a time.
 - Multicode Data Formatting (MDF) - Scans many barcodes in one trigger pull (select scanners).
 - Preferred Symbol - Single out one barcode on a label of many (select scanners).
- Load parameter settings to a scanner via the following:
 - Barcode scanning.
 - Scan a paper barcode.
 - Scan a barcode from a PC screen.
 - Scan a barcode from a smart phone screen.
 - Download over a USB cable.
 - Load settings to one scanner.
 - Stage up to 10 scanners simultaneously (Powered USB Hub recommended with 0.5 amp / port).
- Validate scanner setup.
 - View scanned data within the utility's Data view screen.
 - Capture an image and save it to a PC within the utility's Data view screen.
 - Review settings using the Parameter Report.
 - Clone settings from an already deployed scanner from the Start screen.
- Upgrade scanner firmware.
 - Load settings to one scanner.
 - Stage up to 10 scanners simultaneously (Powered USB Hub recommended with 0.5 amp/port).
- View statistics, such as:
 - Asset tracking information.
 - Time and usage information.
 - Barcodes scanned by symbology.
 - Battery/PowerCap diagnostics (select scanners).
 - Battery diagnostics (select scanners).
- Generate the following reports.
 - Barcode Report - Programming barcode, relevant parameter settings, and supported scanner models.
 - Parameter Report - Parameters programmed within a configuration file.

- Inventory Report - Scanner asset tracking information.
- Validation Report - Scanned data from the Data view.
- Statistics Report - All statistics retrieved from the scanner.

For more information, go to zebra.com/123Scan.

Troubleshooting

Use this table to troubleshoot the scanner.

Problem	Possible Causes	Possible Solutions
The scanner is not working.	No power to the scanner.	Check system power. For cordless models, ensure the battery/PowerCap is charged.
	Scanner is disabled.	Ensure that the correct host interface cable is used.
The scanner decodes barcodes but does not transmit data to the host.	Improper host interface configuration.	Scan appropriate host parameter barcodes.
	Loose interface cable.	Ensure all cable connections are secure.
	Invalid ADF rule.	Program the correct ADF rules.
	Scanner not paired to cradle.	Scan cradle pairing barcode.
The scanner is not decoding barcodes.	Scanner not programmed for barcode type.	Ensure the scanner is programmed to read the type of barcode being scanned.
	Unreadable barcode.	Ensure the barcode is not defaced; try scanning a test barcode of the same barcode type.
	Incorrect distance between scanner and barcode.	Move the scanner closer to or further from the barcode.
Scanned data displays incorrectly on the host.	Improper host interface configuration.	Scan appropriate host parameter barcodes.
	Region configured improperly.	Select the appropriate country and language encoding scheme.

Ergonomic Considerations

Follow these ergonomic recommendations for an optimum scanning experience. Zebra recommends taking breaks and rotating tasks to prevent strain.

Table 1 Avoid Bending and Reaching

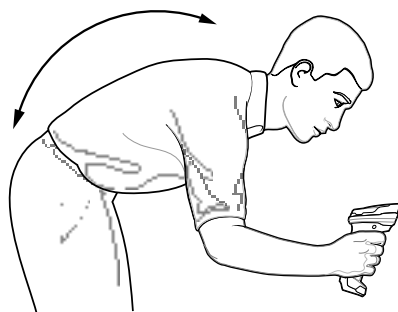
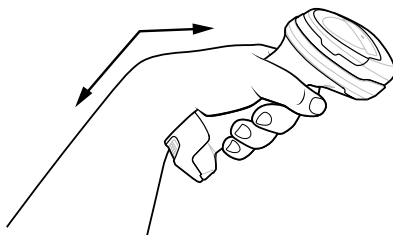
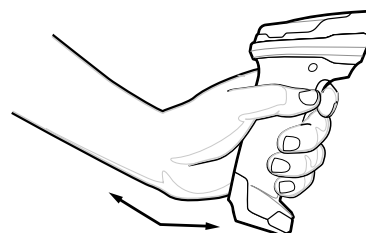


Table 2 Avoid Extreme Wrist Angles



Regulatory Information

This device is approved under Zebra Technologies Corporation.

This guide applies to the following model number: DS4678

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 nyelvé 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

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.

This device is certified to the applicable North American ANSI-UL standards for equipment used in hazardous environments. It is only certified for use within the marked Class, Division, and Group(s). The device has not been evaluated for use in other hazardous locations requiring compliance with other classification schemes (ATEX, IECEx, PESO, etc.)

Health and Safety Recommendations

This section provides important health and safety recommendations.

Ergonomic Recommendations

In order 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 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 equipment.

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 headset, 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.

This device has been evaluated for RF exposure requirements in positions that simulate being worn or carried directly against the user's body (no separation distance).

To satisfy RF exposure requirements, this device must be hand-held only and, where applicable use only with Zebra tested and approved accessories.

Optical Devices

LED

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

- DS4678-SR Illumination Red Pulse Duration: 2 ms
Exempt Group (RG0)
- DS4678-SR Aiming Amber Pulse Duration: 12 ms
Exempt Group (RG0)
- DS4678-XD, DPE Illumination White Pulse Duration: 2 ms
Exempt Group (RG0)
- DS4678-XD, DPE Aiming Green Pulse Duration: 2 ms
Exempt 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:

- Battery pack model 82-I76890-01 (3.7 VDC, 2500 mAh)
- PowerCap model AS-000231 (3.7 VDC, 440 F)

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 and PowerCap 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 0°C and 40°C (32°F and 104°F).
- 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.
- Do not use a PowerCap in excess of its output rating, as this may result in a risk of fire or injury.
- Ensure the service is performed by a qualified Zebra service center to maintain the product's safety.

 **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 Conformities is available at: zebra.com/doc.

EU Importer : Zebra Technologies B.V

Address: Mercurius 12, 8448 GX Heerenveen, Netherlands

Environmental Compliance

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

Waste Electrical and Electronic Equipment (WEEE)

For EU and UK Customers: For products at the end of their life, please 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.

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.

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.

To satisfy RF exposure requirements, this device must be hand-held only and, where applicable use 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.

中国

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如果配套使用外部电源适配器，请确保其已通过CCC 认证



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.		

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.

This device is designed to receive wireless emergency alerts using the Cellular Broadcasting Service as specified in IFT-011 Pt3. If your cellular network provider supports this service, alerts will be provided while in the provider's coverage area. If you travel outside your provider's coverage area, the alerts may not be available. For more information, please contact your network provider. Wireless Emergency Alert settings are available in the Messages App settings by selecting Advanced. Once displaying alerts, the settings can be viewed and changed. This allows non-mandatory alerts to be deselected and for test alerts to be enabled if required. An option to enable text-to-speech also exists, allowing the text alerts messages to be spoken aloud for the user to hear the message.

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。

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 數位掃描器			型號（型式）DS4678			
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	—	○	○	○	○	○
金屬零件	—	○	○	○	○	○
電纜及電纜組件	○	○	○	○	○	○
塑料和聚合物零件	○	○	○	○	○	○
光學與光學元件—	○	○	○	○	○	○
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. “○” 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.						

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 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 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 in order 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, e-mail Zebra at entitlementservices@zebra.com and ensure you include the following essential 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 e-mail containing a link directing you to a Zebra Web site to download the appropriate software.

Product Support Information

- For information on using this product, refer to the User Guide/Product Reference Guide at .
- 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.

