

# **DS9808-R**

## **QUICK START GUIDE**



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## **Warranty**

For the complete hardware product warranty statement, go to: <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.

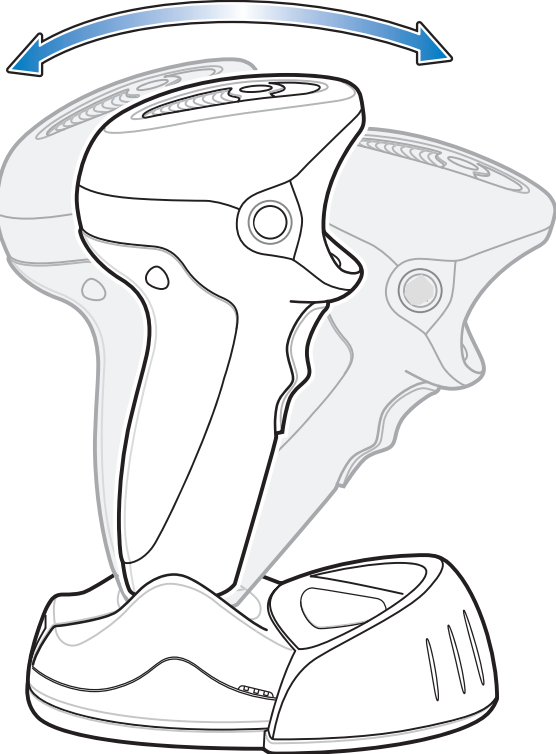
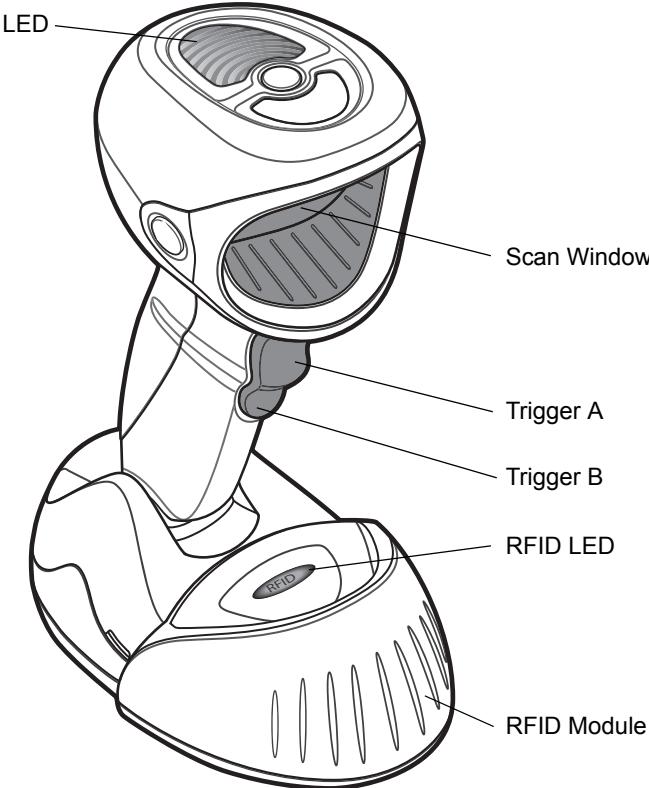
Zebra Technologies Corporation Australia's limited warranty above is in addition to any rights and remedies you may have under the Australian Consumer Law. If you have any queries, please call Zebra Technologies Corporation at +65 6858 0722. You may also visit our website: <http://www.zebra.com> for 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>.

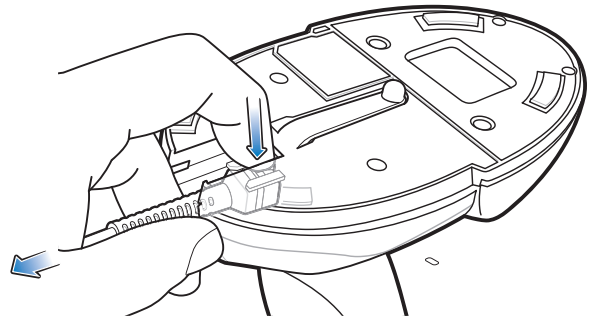
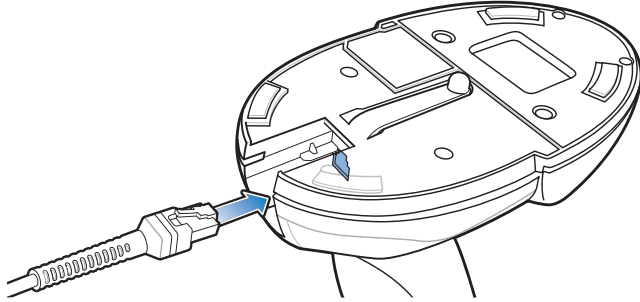
For the latest version of this guide go to: <http://www.zebra.com/support>.

# Scanner Features



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## Cord Attachment/Removal



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## Programming Bar Codes

### Set Defaults



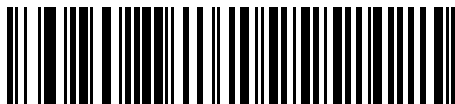
Set Defaults

### Carriage Return/Line Feed

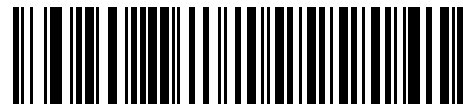


<DATA><SUFFIX1>

### USB Host Types



HID Keyboard Emulation



IBM Hand-Held USB

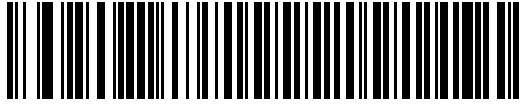


SNAPI with Imaging Interface



SNAPI Without Imaging

## IBM 46XX Host Types



Port 5B



Port 9B

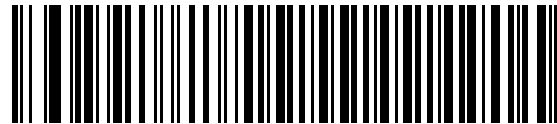


Port 17

## RS-232 Host Types



Standard RS-232

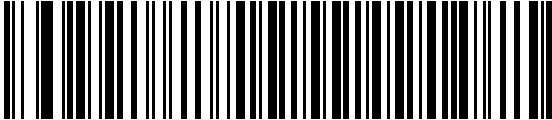


Nixdorf RS-232 Mode A

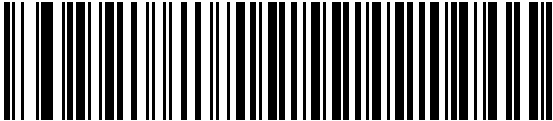


Nixdorf RS-232 Mode B

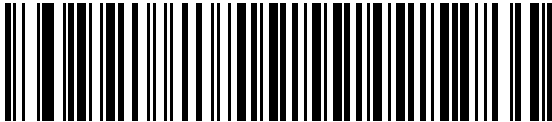
**RS-232 Host Types (continued)**



**ICL RS-232**

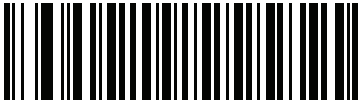


**Fujitsu RS-232**

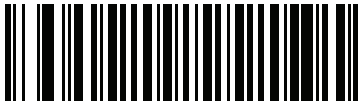


**OPOS/JPOS**

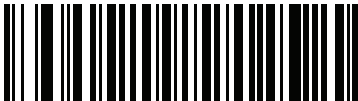
**RFID Same Tag Timeout**



**Disable**



**2 Seconds**



**5 Minutes**

## RFID Trigger Modes



Continuous



Single Tag



Continuous Re-report

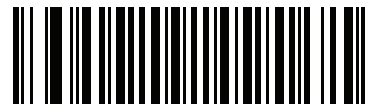


Continuous Flush

## RFID Data Transmission Format



Raw



GS1-128

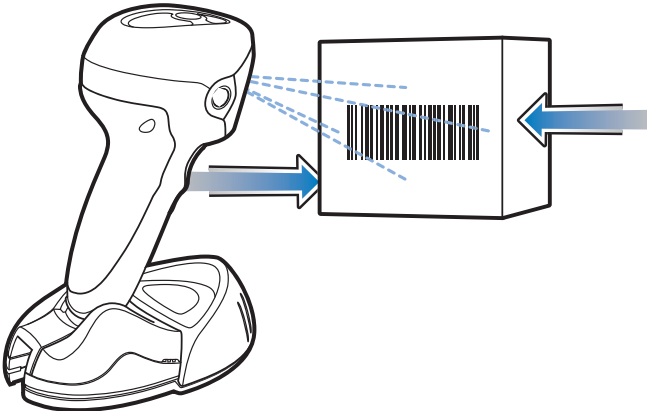


EPC URI

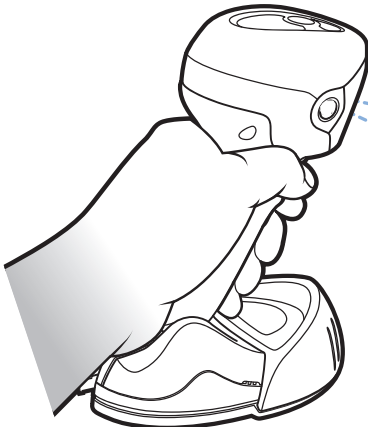


# Data Capture

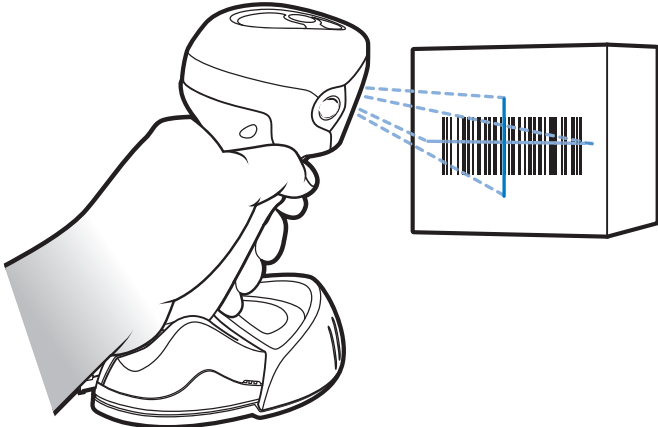
## Hands-Free Scanning



## Hand-Held Scanning

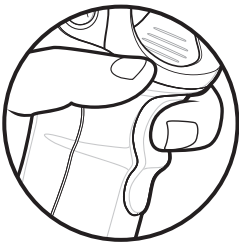


DS9808-LR

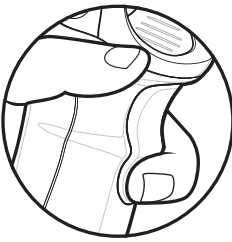


DS9808-SR

## Triggers

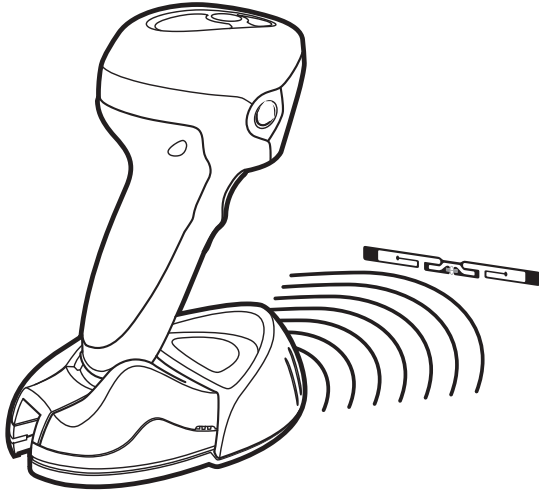


Trigger A

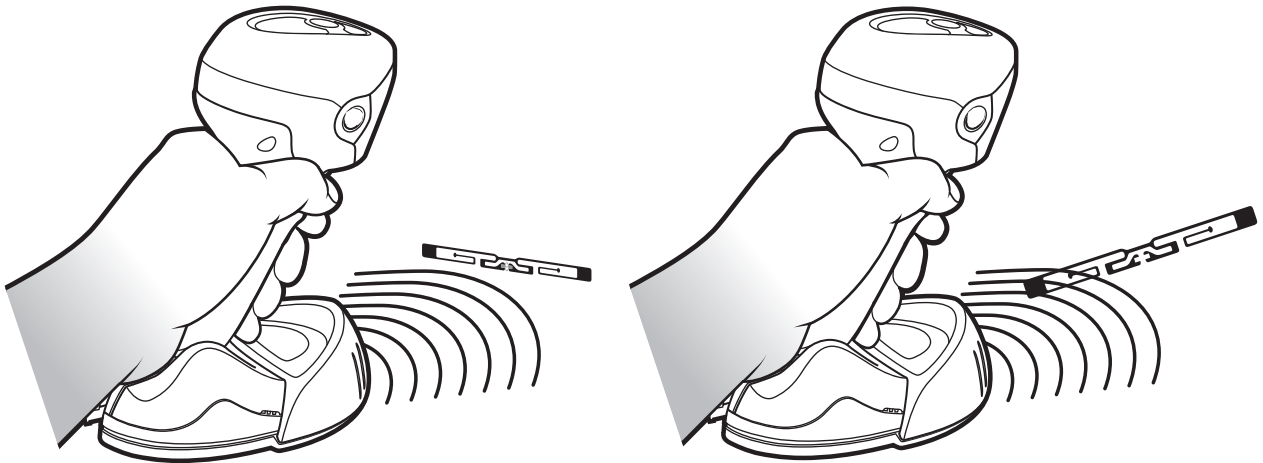


Trigger B

### Hands-Free RFID



### Hand-Held RFID



## LED Indications

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

## Beeper Indications

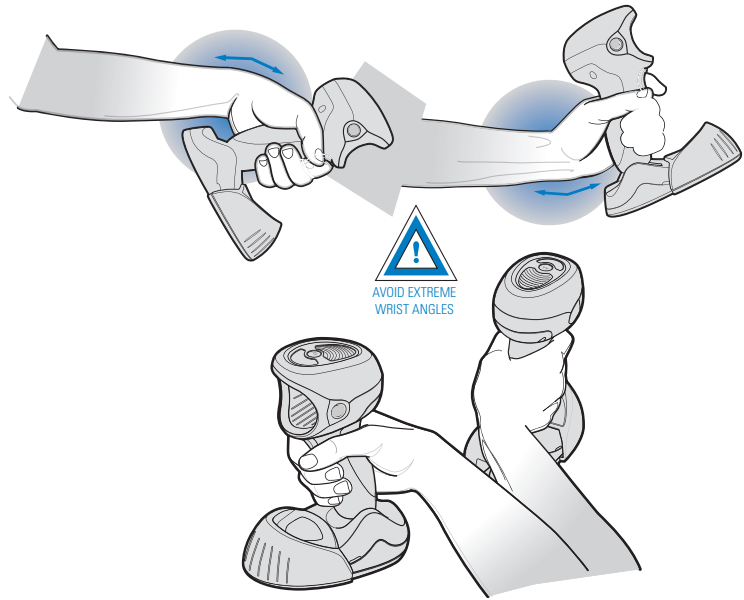
Indication	Beeper Sequence
<b>Standard Use</b>	
Power up	Low/medium/high beep
A bar code is successfully decoded	Short medium beep
Transmission error, data is ignored	4 long low beeps
<b>RFID</b>	
An RFID tag was read (if RFID read beeper is enabled)	Medium/high (two-tone) beep
Unexpected RFID indication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

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## Optimum Arm Position



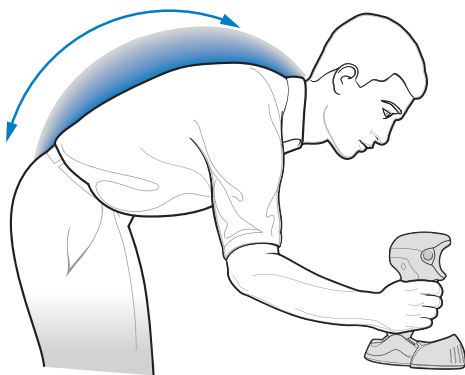
## Avoid Extreme Wrist Angles



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## Avoid Bending and Reaching

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



## Troubleshooting

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

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## 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.

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## 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](http://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 electromagnetic 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](http://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

Complies with 21CFR1040.10 & 1040.11 except for deviations pursuant to Laser Notice NO. 50, dated June 24, 2007 and IEC/EN 60825-1:2007 and/or IEC/EN 60825-1:2014.

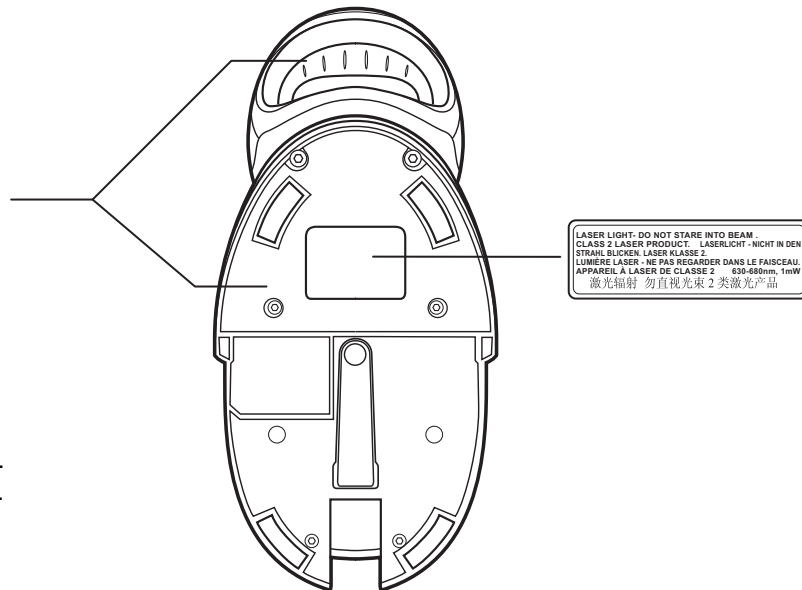
The laser classification is marked on one of the labels on the device.

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  
laser en cas d'ouverture.  
Ne pas regarder dans  
le faisceau.

Vorsicht  
laserlicht klasse 2,  
wenn 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)

**Bulgarish:** За клиенти от ЕС: След края на полезния им живот всички продукти трябва да се връщат на Zebra за рециклиране. За информация относно връщането на продукти, моля отидете на адрес <http://www.zebra.com/weee>.

**Čeština:** Pro zákazníky z EU: Všechny produkty je nutné po skončení jejich životnosti vrátit společnosti Zebra k recyklaci. Informace o způsobu vrácení produktu najdete na webové stránce: <http://www.zebra.com/weee>.

**Dansk:** Til kunder i EU: Alle produkter skal returneres til Zebra til recirkulering, når de er udtjent. Læs oplysningerne om returnering af produkter på: <http://www.zebra.com/weee>.

**Deutsch:** Für Kunden innerhalb der EU: Alle Produkte müssen am Ende ihrer Lebensdauer zum Recycling an Zebra zurückgesandt werden. Informationen zur Rücksendung von Produkten finden Sie unter <http://www.zebra.com/weee>.

**Ελληνικά:** Για πελάτες στην Ε.Ε.: Όλα τα προϊόντα, στο τέλος της διάρκειας ζωής τους, πρέπει να επιστράφονται στην Zebra για ανακύκλωση. Για περισσότερες πληροφορίες σχετικά με την επιστροφή ενός προϊόντος, επισκεφθείτε τη διεύθυνση <http://www.zebra.com/weee> στο Διαδίκτυο.

**English:** 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>.

**Español:** Para clientes en la Unión Europea: todos los productos deberán entregarse a Zebra al final de su ciclo de vida para que sean reciclados. Si desea más información sobre cómo devolver un producto, visite: <http://www.zebra.com/weee>.

**Eesti:** EL klientidele: kõik tooted tuleb nende eluea lõppedes tagastada taaskasutamise eesmärgil Zebra'ile. Lisainformatsiooni saamiseks toote tagastamise kohta külastage palun aadressi: <http://www.zebra.com/weee>.

**Suomi:** Asiakkaita Euroopan unionin alueella: Kaikki tuotteet on palautettava kierrätettäväksi Zebra-yhtiöön, kun tuotetta ei enää käytetä. Lisätietoja tuotteen palauttamisesta on osoitteessa <http://www.zebra.com/weee>.

**Français :** Clients de l'Union Européenne : Tous les produits en fin de cycle de vie doivent être retournés à Zebra pour recyclage. Pour de plus amples informations sur le retour de produits, consultez : <http://www.zebra.com/weee>.

**Magyar:** Az EU-ban vásárlóknak: Minden tönkrement terméket a Zebra vállalatához kell eljuttatni újrahasznosítás céljából. A termék visszajuttatásának módjával kapcsolatos tudnivalóért látogasson el a <http://www.zebra.com/weee>.

**Italiano:** per i clienti dell'UE: tutti i prodotti che sono giunti al termine del rispettivo ciclo di vita devono essere restituiti a Zebra al fine di consentirne il riciclaggio. Per informazioni sulle modalità di restituzione, visitare il seguente sito Web: <http://www.zebra.com/weee>.

**Lietuvių:** ES vartotojams: visi gaminiai, pasibaigus jų eksploatacijos laikui, turi būti grąžinti utilizuoti į kompaniją „Zebra“. Daugiau informacijos, kaip grąžinti gaminių, rasite: <http://www.zebra.com/weee>.

**Latviešu:** ES klientiem: visi produkti pēc to kalpošanas mūža beigām ir jānogādā atpakaļ Zebra atreizējai pārstrādei. Lai iegūtu informāciju par produktu nogādāšanu Zebra, lūdzu, skatiet: <http://www.zebra.com/weee>.

**Malti:** Għal klijenti fl-UE: il-prodotti kollha li jkunu waslu fl-aħħar tal-ħajja ta' l-użu tagħhom, iridu jiġu rritornati għand Zebra għar-riċiklaġġ. Għal aktar taġħrif dwar kif għandek tirritorna l-prodott, jekk jogħġbok żur: <http://www.zebra.com/weee>.

**Nederlands:** Voor klanten in de EU: alle producten dienen aan het einde van hun levensduur naar Zebra te worden teruggezonden voor recycling. Raadpleeg <http://www.zebra.com/weee> voor meer informatie over het terugzenden van producten.

**Polski:** Klienci z obszaru Unii Europejskiej: Produkty wycofane z eksploatacji należy zwrócić do firmy Zebra w celu ich utylizacji. Informacje na temat zwrotu produktów znajdujących się na stronie internetowej <http://www.zebra.com/weee>.

**Português:** Para clientes da UE: todos os produtos no fim de vida devem ser devolvidos à Zebra para reciclagem. Para obter informações sobre como devolver o produto, visite: <http://www.zebra.com/weee>.

**Românesc:** Pentru clienții din UE: Toate produsele, la sfârșitul duratei lor de funcționare, trebuie returnate la Zebra pentru reciclare. Pentru informații despre returnarea produsului, accesați: <http://www.zebra.com/weee>.

**Slovenčina:** Pre zákazníkov z krajín EU: Všetky výrobky musia byť po uplynutí doby ich životnosti vrátené spoločnosti Zebra na recykláciu. Bližšie informácie o vrátení výrobkov nájdete na: <http://www.zebra.com/weee>.

**Slovenski:** Za kupce v EU: vsi izdelki se morajo po poteku življenjske dobe vrniti podjetju Zebra za reciklažo. Za informacije o vračilu izdelka obiščite: <http://www.zebra.com/weee>.

**Svenska:** För kunder inom EU: Alla produkter som uppnått sin livslängd måste returneras till Zebra för återvinning. Information om hur du returnerar produkten finns på <http://www.zebra.com/weee>.

**Türkçe:** AB Müşterileri için: Kullanım süresi dolan tüm ürünler geri dönüştürme için Zebra'ya iade edilmelidir. Ürünlerin nasıl iade edileceği hakkında bilgi için lütfen şu adresi ziyaret edin: <http://www.zebra.com/weee>.

## TURKISH WEEE Statement of Compliance

EEE Yönetmeliğine Uygundur





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3 Overlook Point  
Lincolnshire, IL U.S.A.  
<http://www.zebra.com>

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