



# DS2208



## Digital Scanner

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## Quick Start Guide



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### Warranty

For the complete Zebra 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.

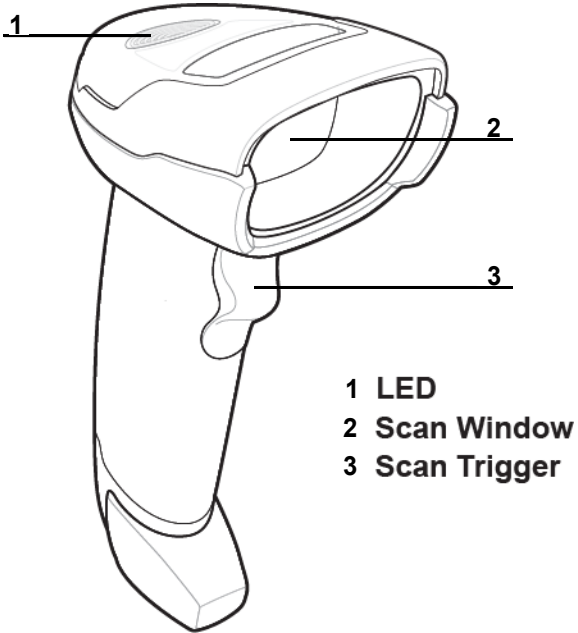
### Service Information

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

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

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## Scanner Features and Presentation Mode



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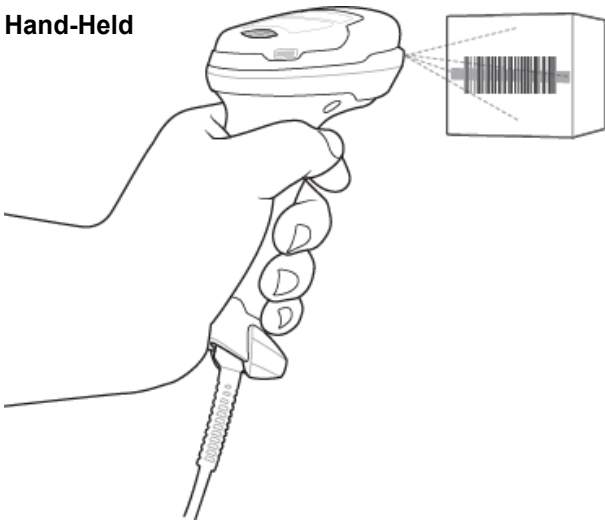
## Aiming - Right/Wrong



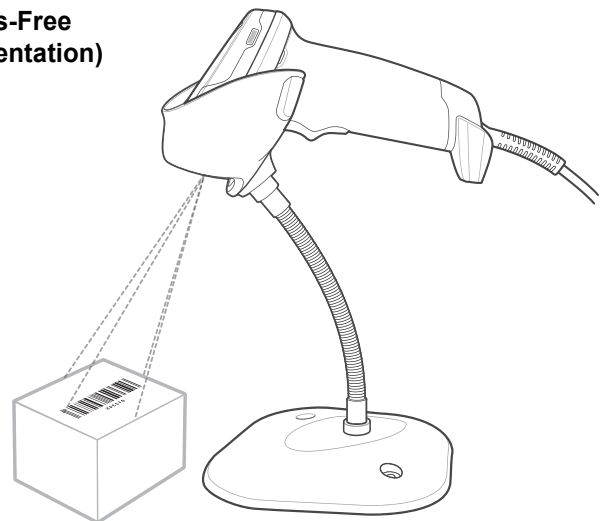
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## Scanning

Hand-Held



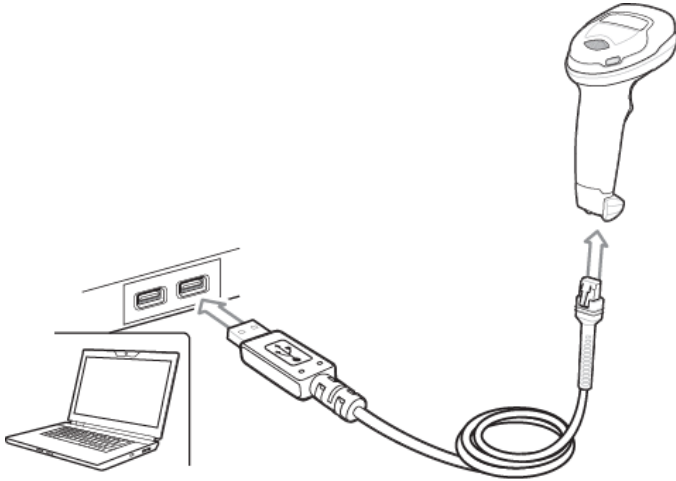
Hands-Free  
(Presentation)



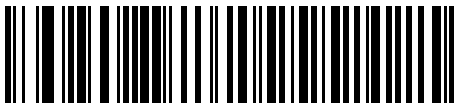
## Connect Host Interface

✓ **NOTE** Cables may vary depending on configuration.

### USB



Scan **ONE** of the bar codes below. The digital scanner automatically detects the host interface type and uses the default setting. If the default (\*) does not meet your requirements, scan another host bar code below.



**\*USB Keyboard HID**



**IBM Hand-Held USB**

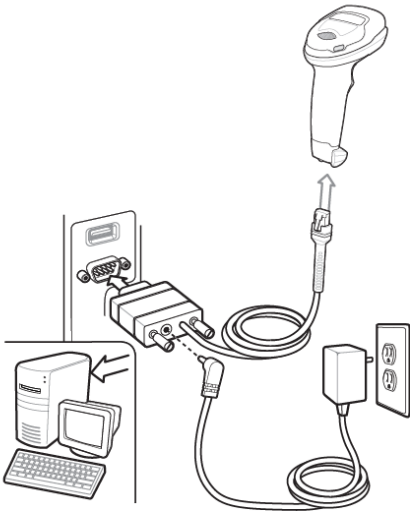


**IBM OPOS  
(IBM Hand-Held USB with Full Scan Disable)**

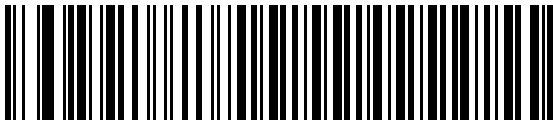


**Symbol Native API (SNAPI) with Imaging Interface**

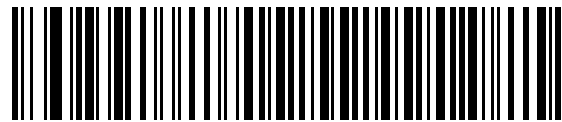
## RS-232



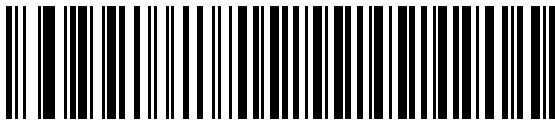
Scan **ONE** of the bar codes below. The digital scanner automatically detects the host interface type and uses the default setting. If the default (\*) does not meet your requirements, scan another host bar code below.



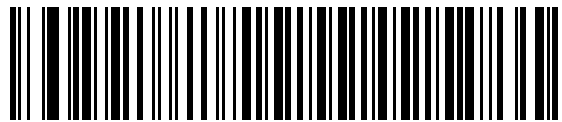
**\*Standard RS-232**



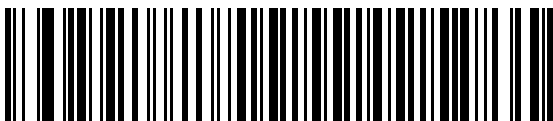
**ICL RS-232**



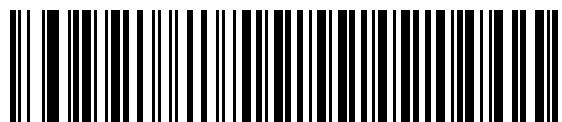
**Wincor-Nixdorf RS-232 Mode A**



**Wincor-Nixdorf RS-232 Mode B**

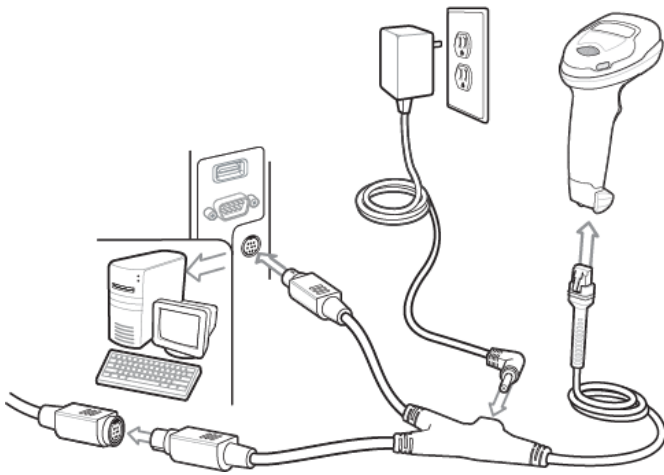


**OPOS/JPOS**

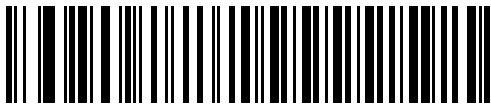


**Fujitsu RS-232**

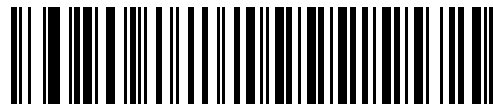
## Keyboard Wedge



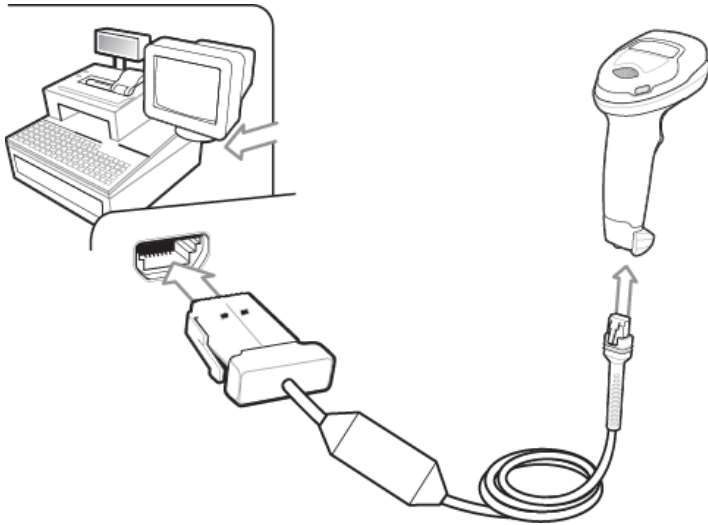
Scan **ONE** of the bar codes below. The digital scanner automatically detects the host interface type and uses the default setting. If the default (\*) does not meet your requirements, scan the IBM PC/AT and IBM PC COMPATIBLE bar code below.



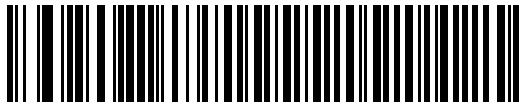
**IBM PC/AT & IBM PC Compatibles**



**\*IBM AT Notebook**

**IBM 46XX**

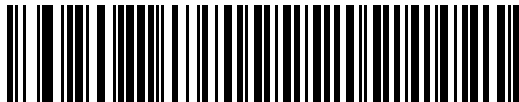
Scan **ONE** of the bar codes below. The digital scanner automatically detects the host interface type, but there is no default setting. Scan one of the bar codes below to select the appropriate port.



**Hand-Held Scanner Emulation (Port 9B)**



**Non-IBM Scanner Emulation (Port 5B)**



**Table-Top Scanner Emulation (Port 17)**

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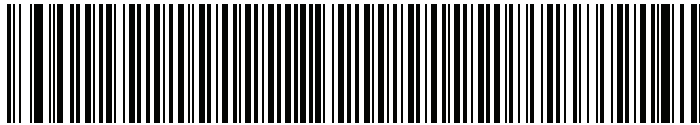
## Useful Bar Codes

### Set Defaults



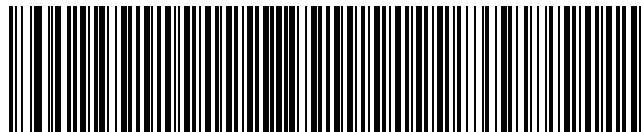
Set Factory Defaults

### Add a Tab Key



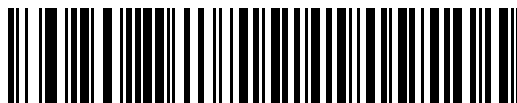
Tab Key

### Add an Enter Key



Add Enter Key (Carriage Return/Line Feed)

### USB Caps Lock Override



Override Caps Lock Key  
(Enable)



## User Indications (By Default)

Indication	Beeper Sequence
Power up	Low/medium/high beep
Bar code is successfully decoded	Short high beep
Transmission error	4 long low beeps
Successful parameter setting	High/low/high/low beep
Correct programming sequence performed	High/low beep
Incorrect programming sequence, or <b>Cancel</b>	Low/high beep

Indication	LED Indicator
<b>Hand-Held Scanning</b>	
Scanner is on and ready to scan, or no power to	Off
Bar code is successfully decoded	Green
Transmission error	Red
<b>Hands-Free (Presentation) Scanning</b>	
No power to scanner	Off
Scanner is ready to scan	Green
Bar code is successfully decoded	Off momentarily
Transmission error	Red

## 123Scan

123Scan is an easy-to-use, PC-based software tool that enables rapid and easy customized setup of a scanner via a bar code or USB cable. For more information, visit: <http://www.zebra.com/123Scan>.

### Utility Functionality

- Device configuration
- Electronic programming (USB cable)
- Programming bar code(s)
- Data view - scan log (display scanned bar code data)
- Access asset tracking information
- Upgrade firmware and view release notes
- Remote management (SMS package generation).

## Troubleshooting

### Aiming line does not appear

No power to scanner	Connect scanner to powered host, or connect power supply
Aiming line is disabled	Enable aiming line

### Scanner decodes bar code but does not transmit data

Interface cable is loose	Reconnect the cable
Transmission or format error	Set the proper communication and conversion parameters
Invalid ADF rule	Program the correct ADF rules

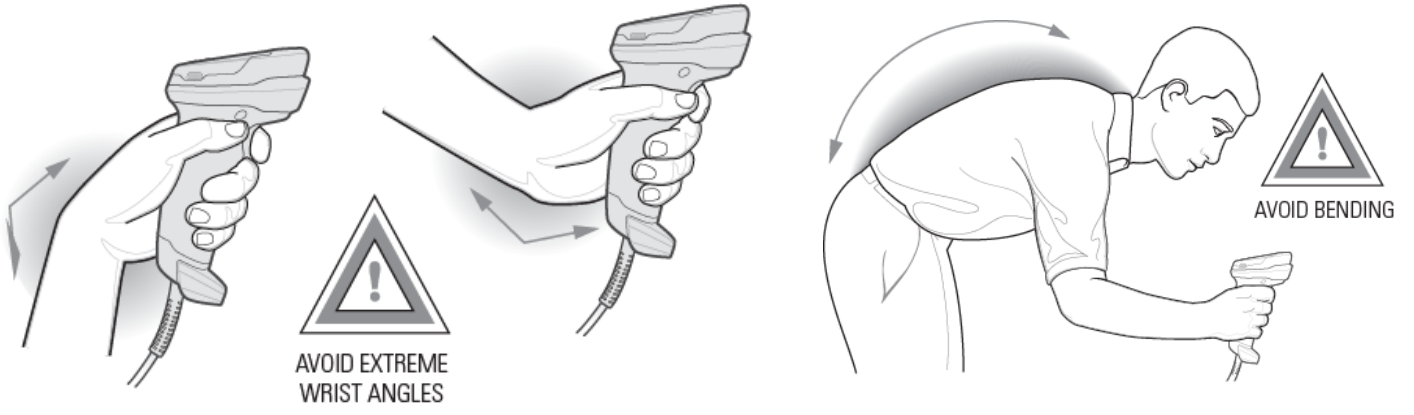
### Scanner does not decode bar code

Scanner not programmed for bar code type	Enable that bar code type
Bar code is unreadable	Ensure the bar code is not defaced; scan a test bar code of the same bar code type
Bar code is out of aiming line area	Move the aiming line over the bar code

### Scanned data incorrectly displayed on host

Host interface not configured properly	Scan appropriate host parameter bar codes
Region improperly configured	Select appropriate country and language encoding scheme

## RECOMMENDED USAGE GUIDE - OPTIMUM BODY POSTURE



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## Regulatory Information

This device is approved under Zebra Technologies Corporation. This guide applies to Model Number DS2208.

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: [www.zebra.com/support](http://www.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.

## 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.

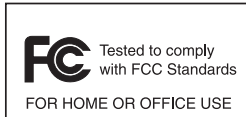
## LED Devices

Classified as 'EXEMPT RISK GROUP' according to IEC 62471:2006 and EN 62471:2008. Pulse duration: 9 ms.

## Power Supply

Use ONLY a Zebra approved UL LISTED ITE (IEC/EN 60950-1, LPS/SELV) power supply with electrical ratings: Output 5.2Vdc, min 1.1A, with a maximum ambient temperature of at least 50 degrees C. Use of alternative power supply will invalidate any approvals given to this unit and may be dangerous.

## 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 Frequency Interference Requirements-Canada

CAN ICES-3 (B)/NMB-3(B)



### Marking and European Economic Area (EEA)

#### Statement of Compliance

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>.

## Other Countries

### Japan (VCCI) - Voluntary Control Council for Interference

#### Class B ITE

この装置は、クラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。  
 取扱説明書に従って正しい取り扱いをして下さい。 VCCI-B

### Korea Warning Statement for Class B ITE

(가 B ) 가 (B )

**China**

通过访问以下网址可下载当地语言支持的产品说明书



[www.zebra.com/support](http://www.zebra.com/support)

**Ukraine**

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

**Eurasian Customs Union**

Евразийский Таможенный Союз

Данный продукт соответствует требованиям знака ЕАС.

**TURKISH WEEE Statement of Compliance**

EEE Yönetmeliğine Uygundur

**China RoHS**

This table was created to comply with China RoHS requirements.

部件名称 (Parts)	有害物质					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
金属部件 (Metal Parts)	X	○	○	○	○	○
电路模块 (Circuit Modules)	X	○	○	○	○	○
电缆及电缆组件 (Cables and Cable Assemblies)	○	○	○	○	○	○
塑料和聚合物部件 (Plastic and Polymeric Parts)	○	○	○	○	○	○
光学和光学组件 (Optics and Optical Components)	X	○	○	○	○	○
电池 (Batteries)	○	○	○	○	○	○

本表格依据SJ/T 11364 的规定编制。

O: 表示该有害物质在该部件所有均质材料中的含量均在 SJ/T 11364--2014 规定的限量要求以下。

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 SJ/T 11364--2014 规定的限量要求。(企业可在此处, 根据实际情况对上表中打“X”的技术原因进行进一步说明。)



## Waste Electrical and Electronic Equipment (WEEE)

**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>.

**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>.

**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>.

**Български:** 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>.

**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>.

**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>.

**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>.

**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 znajdują się na stronie internetowej <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>.

**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>.

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

**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>.

**Suomi:** Asiakkaat 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>.

**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>.

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

**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>.

**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>.

**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>.

**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>.

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

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

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

**Hrvatski:** Za kupce u Europskoj uniji: Svi se proizvodi po isteku vijeka trajanja moraju vratiti tvrtki Zebra na recikliranje. Informacije o načinu vraćanja proizvoda potražite na web-stranici: <http://www.zebra.com/weee>.



Zebra Technologies Corporation, Inc.

3 Overlook Point

Lincolnshire, IL 60069, U.S.A.

<http://www.zebra.com>

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