

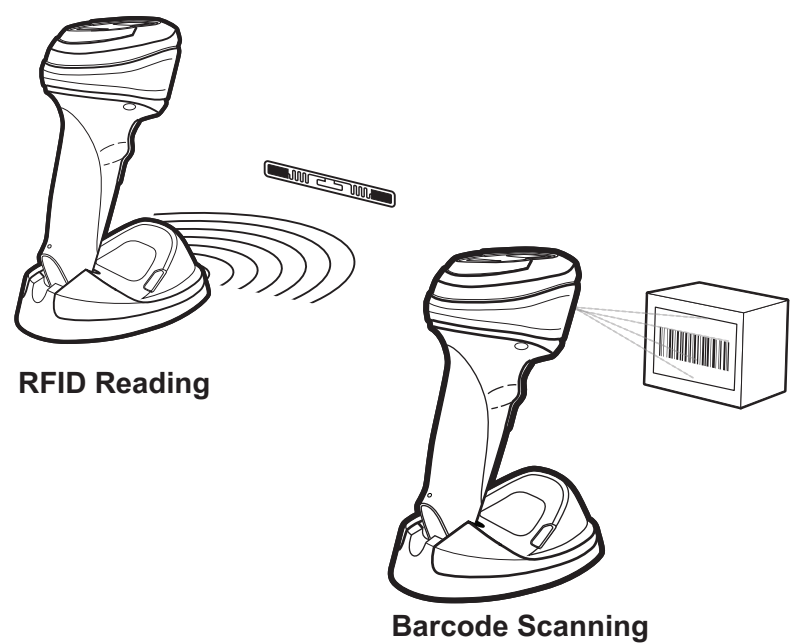
# DS9908R HANDS-FREE IMAGING SCANNER

DS9908R Poster

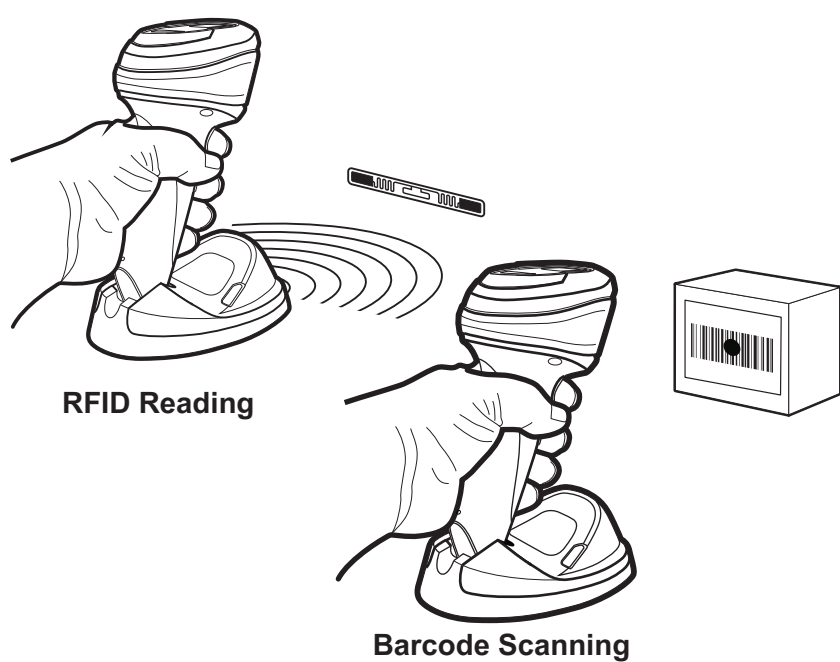
BLACK

PANTONE 307C

## Hands-Free



## Hand-Held



## Warranty

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

## 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: [www.zebra.com](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 Zebra Support at: [www.zebra.com/support](http://www.zebra.com/support). For the latest version of this guide go to: [www.zebra.com/support](http://www.zebra.com/support).

## 123SCAN

### ABOUT 123Scan

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

### UTILITY FUNCTIONALITY

- Device configuration
- Electronic programming (USB cable)
- Programming barcode(s)
- Data view – scan log (display scanned barcode data)

- Access asset tracking information
- Upgrade firmware and view release notes
- Remote management (SMS package generation)

## USER INDICATIONS BY DEFAULT

Note: For user indications and troubleshooting information for the imaging scanner refer to the DS9908 Hands-Free Imaging Scanner Product Reference Guide.

Speaker Sequence	RFID LED	Indication
None	Green (solid)	LED on when RFID is active.
None	Green (slow blinking)	The reader is polling for new tags.
Medium/high (two tone) beeps	Green momentarily off	An RFID tag was read/reported.
High/medium/low/low beeps	Long red blink	Unexpected RFID indication or RFID error.
None	Short red blink	RFID is not ready.

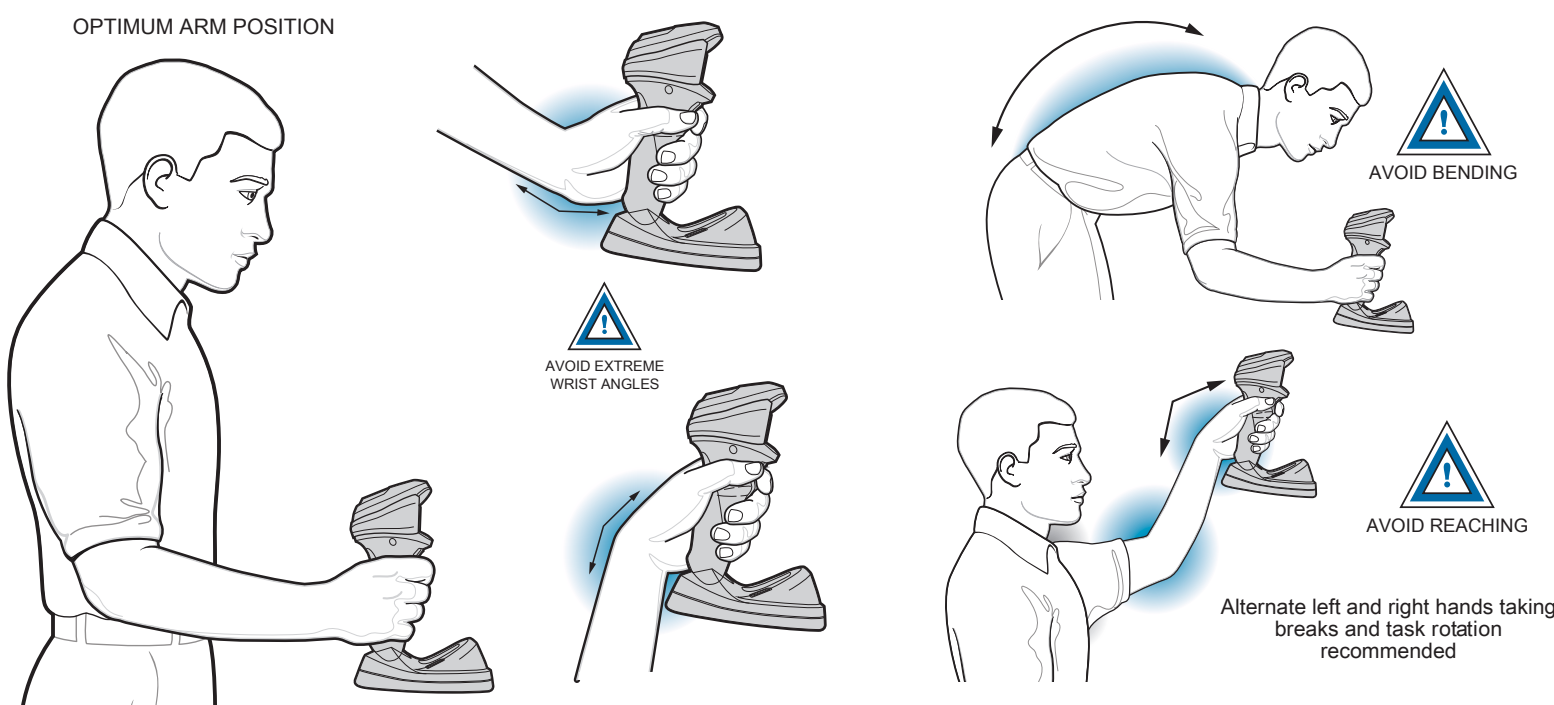
## TROUBLESHOOTING

Problem	Possible Causes	Possible Solutions
Imaging scanner emits 4 short high beeps during read attempt.	Imager has not completed USB initialization.	Wait several seconds and read again.
Imager reads the tag, but does not transmit the data to the host.	Imager is not programmed for the correct host type.	Scan the appropriate host type programming barcode. Refer to the DS9908 Hands-Free Imaging Scanner Product Reference Guide.
	Interface cable is loose.	Reconnect the cable.
	If the imager emits 4 long low beeps, a transmission error occurred.	Set the imager's communication parameters to match the host's setting.
Host displays tag data incorrectly.	Imager is not programmed to work with the host.	Scan the appropriate host type programming barcode.
		For RS-232, set the imager's communication parameters to match the host's setting.

## 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 direct pressure
- Provide adjustable workstations
- Provide adequate clearance
- Provide a suitable working environment
- Improve work procedures.



## REGULATORY INFORMATION

### Regulatory Information

This device is approved under Zebra Technologies Corporation. This guide applies to Model Number DS9908R. 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.

Declared maximum operating temperature: 50° C

### LED Devices

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

Pulse duration: 1.5 ms

### Radio Frequency Interference Requirements

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 instruction manual, 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

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

### Radio Transmitters

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions: (1) This device may not cause interference; and (2) This device must accept any interference, including interference that may cause undesired operation of the device. Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radio électrique subi même si le brouillage est susceptible d'en compromettre le fonctionnement.

### 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 and continents: United States, Canada, Japan, China, South Korea, Australia, and Europe.

Please refer to the Declaration of Conformity (DoC) for details of other country markings. This is available at: [www.zebra.com/doc](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.

Caution: Operation of the device without regulatory approval is illegal.

### RF Exposure Guidelines

### Safety Information

### Reducing RF Exposure – Use Properly

Only operate the device in accordance with the instructions supplied.

### International

The device complies with internationally recognized standards covering human exposure to electromagnetic fields from radio devices. For information on 'International' human exposure to electromagnetic fields, refer to the Zebra Declaration of Conformity (DoC) at [www.zebra.com/doc](http://www.zebra.com/doc).

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



Zebra Technologies Corporation  
Lincolnshire, IL U.S.A.  
[www.zebra.com](http://www.zebra.com)

ZEBRA and the stylized Zebra head are trademarks of Zebra Technologies Corporation, registered in many jurisdictions worldwide. All other trademarks are the property of their respective owners. ©2019 Zebra Technologies Corporation and/or its affiliates. All rights reserved.



MN-003342-01 Revision A February 2019

### Europe

### Remote and Standalone Antenna Configurations

To comply with EU RF exposure requirements, antennas that are mounted externally at remote locations or operating near users at stand-alone desktop or similar configurations must operate with a minimum separation distance of 20 cm from all persons.

### US and Canada

### Co-located statement

To comply with FCC RF exposure compliance requirement, the antenna used for this transmitter must not be co-located or operating in conjunction with any other transmitter/antenna except those already approved in this filing.

### Handheld Devices:

To comply with FCC RF exposure requirements, this device must be operated in the hand with a minimum separation distance of 20 cm or more from a person's body. Other operating configurations should be avoided.



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

### 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。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。

### Brazil

### Declarações Regulamentares para DS9908R - Brasil

Nota: A marca de certificação se aplica ao Transceptor, mod DS9908R. Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em Sistemas devidamente autorizados. Para maiores informações sobre ANATEL consulte o site: [www.anatel.gov.br](http://www.anatel.gov.br).

Este produto está homologado pela Anatel, de acordo com os procedimentos regulamentados pela Resolução n°242/2000 e atende aos requisitos técnicos aplicados, incluindo os limites de exposição da Taxa de Absorção Específica referente a campos elétricos, magnéticos e eletromagnéticos de radiofrequência, de acordo com as Resoluções n° 303/2002 e 533/2009.

### Chile

Este equipo cumple con la Resolución No 403 de 2008, de la Subsecretaría de telecomunicaciones, relativa a radiaciones electromagnéticas. Para la función UHF RFID, se ajustará el dispositivo a operar en el interior de inmuebles en la banda de 915 a 928 MHz con una potencia máxima radiada no superior a 100 mW, conforme a Resolución 755 parte Art 1.(3).

### China

本产品电磁辐射吸收率 (SAR) 最大值为 xx W/kg, 符合国家标准GB XXXX-XXXX 的要求。

### CMM Disclosure

部件名称 (Part)	有害物质 (Substances)					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr <sup>VI</sup> )	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
金属零件 (Metal Parts)	X	O	O	O	O	O
电路板 (Circuit Modules)	X	O	O	O	O	O
电缆及电缆组件 (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
光学和光学零件 (Optical and Optical Components)	O	O	O	O	O	O
电池 (Batteries)	O	O	O	O	O	O

本表格依据SJ/T 11364 的规定编制。  
O 表示有害物质含量符合SJ/T 11364-2014 的要求。  
X 表示有害物质含量不符合SJ/T 11364-2014 的要求。  
注: 本表格仅供参考, 不作为判定依据。如有疑问, 请联系本厂技术支持。

This table was created to comply with China RoHS requirements.

### Mexico

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

### Ukraine

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

### Thailand

เครื่องโทรคมนาคมและอุปกรณ์นี้ มีความสอดคล้องตามข้อกำหนดของ กทท.

### Taiwan

### 臺灣

### 低功率電波輻射性電機管理辦法

### 第十二條

經型式認證合格之低功率射頻電機,非經許可,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。

### 第十四條

低功率射頻電機之使用不得影響航空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。前項合法通信,指依電信法規定作業之無線電通信。工業、科學及醫療用電波輻射性電機設備不在此限。

型號 ABCD: SAR標準值2.0 W/kg; 測測產品實測值為: xxxW/kg

- 「本公司於說明書中提供所有必要資訊以指導使用者/安裝者正確的安裝及操作。」警語。
- 「本公司於說明書中提供所有必要資訊以指導使用者/安裝者正確的安裝及操作。」警語。

### 公司資訊

台灣班馬科技股份有限公司 / 台北市信義區松高路9號13樓

### 限用物質含有情況標示聲明書

單元 Unit	限制物質及其化學物質 Restricted substances and its chemical symbols					
	鉛 (Pb)	汞 (Hg)	鎘 (Cd)	六價鉻 (Cr <sup>VI</sup> )	多溴聯苯 (PBB)	多溴二苯醚 (PBDE)
印刷電路板及電子組件	-	O	O	O	O	O
金屬零件	-	O	O	O	O	O
電線及電纜組件	O	O	O	O	O	O
塑料和聚合物零件	O	O	O	O	O	O
光學與光學零件	O	O	O	O	O	O

備註: "超出0.1 wt %" 及 "超出0.01 wt %" 係指限用物質之百分比含量超過百分之十及百分之一。  
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.  
備註: "O" 係指限用物質含量之百分比含量超過百分之十及百分之一。  
Note 2: "O" indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.  
備註: "-", "-" 係指限用物質含量未超過百分之十及百分之一。  
Note 3: The "-" indicates that the restricted substance corresponds to the exemption.

### Eurasian Customs Union

Данный продукт соответствует требованиям знака ЕАС.



TURKISH WEEE Statement of Compliance  
EEE Yönetmeli



### 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: [www.zebra.com/weee](http://www.zebra.com/weee).  
Bulgarian: За клиентите от ЕС: След края на ползването им всички продукти трябва да се връщат на Zebra за рециклиране. За информация относно връщането на продукти, моля отидете на адрес: [www.zebra.com/weee](http://www.zebra.com/weee).

Catalan: Per als clients de l'UE: Els productes que s'hagin de retornar a Zebra s'han de retornar a Zebra per reciclar. Per més informació sobre com retornar els productes, visiteu el següent lloc web: [www.zebra.com/weee](http://www.zebra.com/weee).

Danish: Til kunder i EU: Alle produkter skal returneres til Zebra til genbrug. For mere information om hvordan man returnerer produkter, gå til: [www.zebra.com/weee](http://www.zebra.com/weee).

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

Espanol: Para clientes de la UE: Todos los productos al final de su vida deben ser devueltos a Zebra para su reciclaje. Para más información sobre cómo devolver un producto, visite: [www.zebra.com/weee](http://www.zebra.com/weee).

French: 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: [www.zebra.com/weee](http://www.zebra.com/weee).

German: Für Kunden in der EU: Alle Produkte am Ende ihres Lebenszyklus müssen an Zebra zurückgegeben werden. Für weitere Informationen zum Rücksenden von Produkten, besuchen Sie die folgende Website: [www.zebra.com/weee](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: [www.zebra.com/weee](http://www.zebra.com/weee).

Latvian: ES klientiem: visi produkti pēc to kalpošanas mēžu beigām ir jānodoti atpakaļ Zebra atbilstoši prasībām. Lai iegūtu informāciju par produktu nodotību Zebra, lūdz, skatīt: [www.zebra.com/weee](http://www.zebra.com/weee).

Lithuanian: ES vartotojams: visi gaminiai, pasibaigus jų eksploatacijos laikui, turi būti grąžinti užtikintojui kompanijai "Zebra". Daugiau informacijos, kaip grąžinti gaminius, rasite: [www.zebra.com/weee](http://www.zebra.com/weee).

Magyar: Az EU-ban vásárlóknak: Minden termékemet termékek a Zebra vállalathoz kell eljuttatni igénybevétele után. További információk a termék visszatérítéséről módjáról kapcsolatba tudni szeretnék a Zebra vállalatunkkal. [www.zebra.com/weee](http://www.zebra.com/weee) weboldalon.

Mali: Ghai klienti fi-UE: Eke ta prodotti kolha il kuru wasil fi-ahat tal-haja tal i-utu taghithom, idnu jigu iritnati ghaid Zebra ghar-riciklagh. Ghai aktar taghif dvar kif ghaidok tritnoma i-prodott, jekk jaghbok zur: [www.zebra.com/weee](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 [www.zebra.com/weee](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 zwrótu produktów znajdą Państwo na stronie internetowej: [www.zebra.com/weee](http://www.zebra.com/weee).

Portuguese: Para clientes da UE: todos os produtos no fim da vida devem ser devolvidos à Zebra para reciclagem. Para obter informações sobre como devolver o produto, visite: [www.zebra.com/weee](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: [www.zebra.com/weee](http://www.zebra.com/weee).

Slovak: ES klienti: Všetky výrobky musia byť po uplynutí doby ich životnosti vrátené spoločnosti Zebra na recykláciu. Blíže informácie o vrátení výrobkov nájdete na: [www.zebra.com/weee](http://www.zebra.com/weee).

Slovenski: Za kupce v EU: vsi izdelki se morajo po poteku življenjske dobe vrniti podjetju Zebra za reciklazo. Za informacije o vračilu izdelka obiščite: [www.zebra.com/weee](http://www.zebra.com/weee).

Swedish: Alla produkter som används i EU ska returneras till Zebra för återvinning. För mer information om hur du returnerar produkten till Zebra, gå till: [www.zebra.com/weee](http://www.zebra.com/weee).

Türkçe: AB Müşterileri için: Kullanım süresi dolan tüm ürünleri geri dönüştürme için Zebra'ya iade edilmelidir. Ürünlerin nasıl iade edileceği hakkında bilgi için lütfen şu adresi ziyaret edin: [www.zebra.com/weee](http://www.zebra.com/weee).

DS9908R