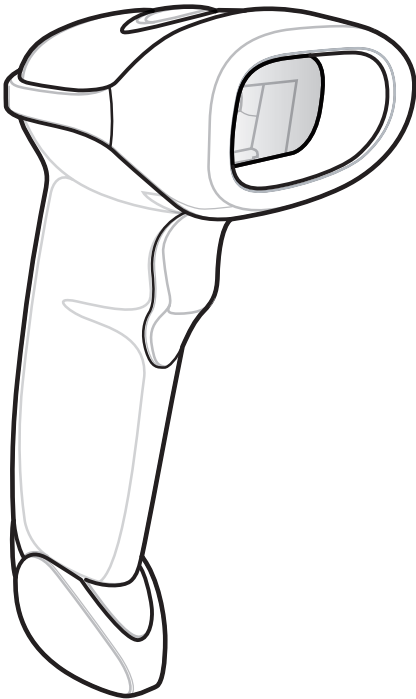


# LS2208

## Quick Start Guide

<http://www.zebra.com/ls2208>

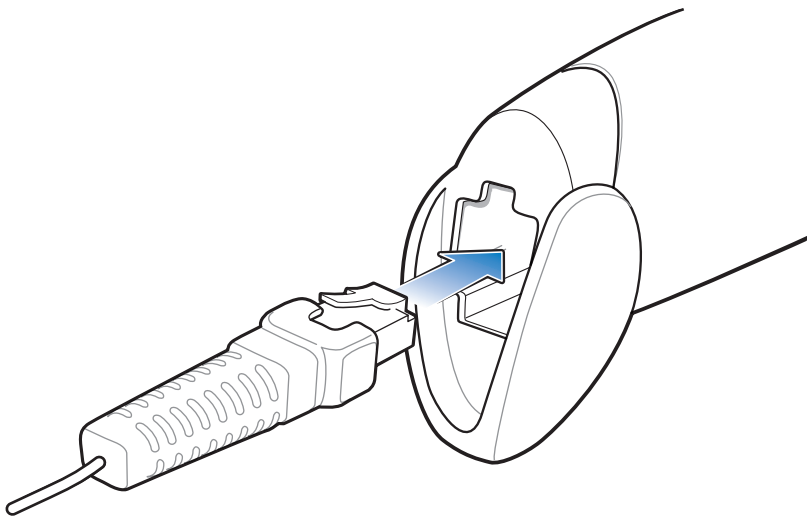
POST IN WORK AREA



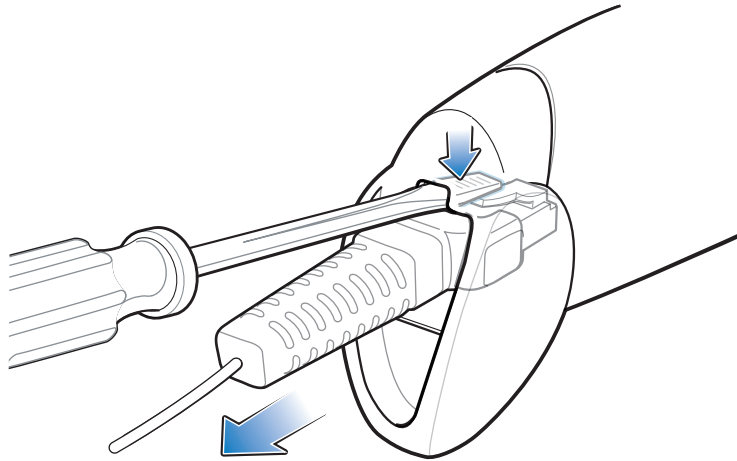
See Product Reference Guide for detailed information

### STEP 1 - ATTACH CABLE TO SCANNER

Attach Cable



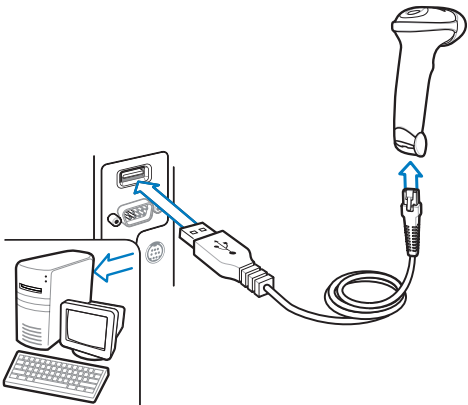
Remove Cable (to change interface)



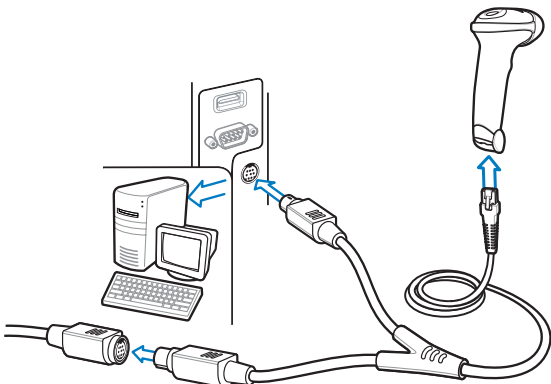
### STEP 2 -CONNECT CABLE TO A HOST

NOTE: Cables may vary depending on configuration.

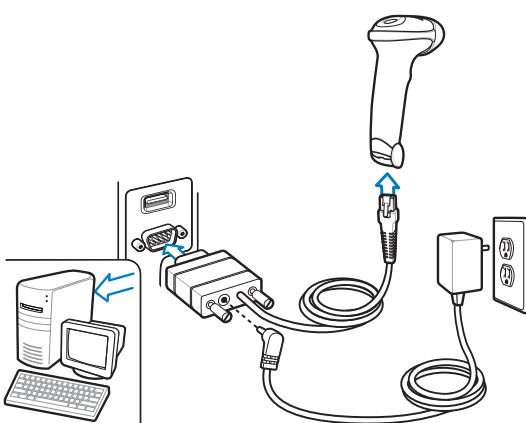
USB



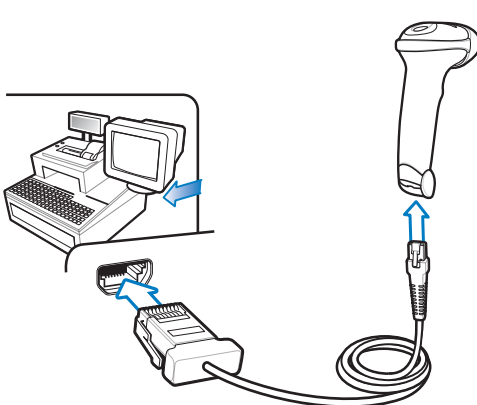
Keyboard Wedge



RS-232



IBM 46XX



### STEP 3 - SET UP INTERFACE (Scan Host Bar Codes)

**Important:** Out of box, Keyboard Wedge and USB interfaces require no bar code scan setup. Bar codes are provided for complex programming or interface changes.

USB

Scan **ONE** of the bar codes below



IBM HAND-HELD USB



HID KEYBOARD EMULATION

Keyboard Wedge

Scan **ONE** of the bar codes below



IBM AT Notebook



IBM PC/AT and IBM PC COMPATIBLE

RS-232

Scan **ONE** of the bar codes below



OPOS/JPOS



STANDARD RS-232

IBM 46XX

Scan **ONE** of the bar codes below



### ADD AN ENTER KEY (CARRIAGE RETURN/LINE FEED)

To add an **ENTER** key after scanned data, scan all **THREE** bar codes below in numerical order.

1



SCAN OPTIONS

2



<DATA><SUFFIX>

3



ENTER

### ADD A TAB KEY

To add a **Tab** key after scanned data, scan all **THREE** Enter key bar codes above in numerical order then scan all **FIVE** bar codes below in numerical order.

1



SCAN SUFFIX

2



7

3



0

4



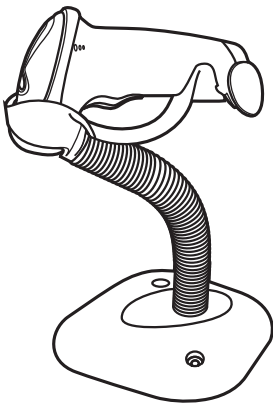
0

5



9

HANDS FREE STAND



SET DEFAULTS



SET DEFAULTS

OPTIMUM SCANNING



123SCAN<sup>2</sup>

123Scan<sup>2</sup> is an easy-to-use, PC-based software tool that enables rapid and easy customized setup via a bar code or USB cable. For more information, visit:  
<http://www.zebra.com/123Scan2>.

LED Indications

|                                                         |                                  |                    |
|---------------------------------------------------------|----------------------------------|--------------------|
| <b>Off</b>                                              | <b>Green</b>                     | <b>Red</b>         |
| Scanner is on and ready to scan, or no power to scanner | Bar code is successfully decoded | Transmission error |

Beeper Indications

|                             |                          |                                              |
|-----------------------------|--------------------------|----------------------------------------------|
| <b>Standard Use</b>         |                          |                                              |
| <b>Low/medium/high beep</b> | <b>Short medium beep</b> | <b>4 long low beeps</b>                      |
| Power up                    | Bar code decoded         | Transmission error detected, data is ignored |

Parameter Menu Scanning

|                               |                                        |                                                             |
|-------------------------------|----------------------------------------|-------------------------------------------------------------|
| <b>High/low/high/low beep</b> | <b>High/low beep</b>                   | <b>Low/High beep</b>                                        |
| Successful parameter setting  | Correct programming sequence performed | Incorrect programming sequence or 'Cancel' bar code scanned |

Troubleshooting

|                                                                    |                                             |                                         |
|--------------------------------------------------------------------|---------------------------------------------|-----------------------------------------|
| <b>Scanner not working</b>                                         |                                             |                                         |
| <b>No power to scanner</b>                                         | <b>Incorrect interface cable used</b>       | <b>Interface/power cables are loose</b> |
| Check system power; ensure power supply, if required, is connected | Ensure that correct interface cable is used | Ensure all cable connections are secure |

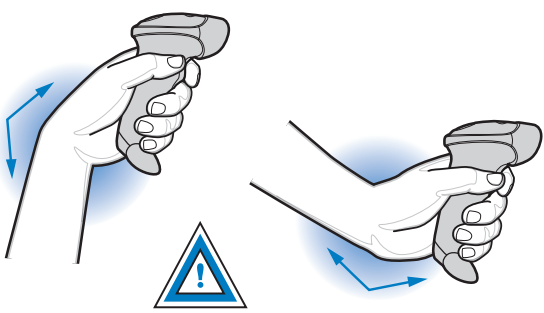
|                                                                     |                                         |  |
|---------------------------------------------------------------------|-----------------------------------------|--|
| <b>Scanner decoding bar code, but data not transmitting to host</b> |                                         |  |
| <b>Scanner not programmed for correct host interface</b>            | <b>Interface cable is loose</b>         |  |
| Scan appropriate host parameter bar codes                           | Ensure all cable connections are secure |  |

|                                                          |                                                                               |                                                        |
|----------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------|
| <b>Scanned data incorrectly displayed on host</b>        |                                                                               |                                                        |
| <b>Scanner not programmed for correct host interface</b> | <b>Bar code unreadable</b>                                                    | <b>Distance between scanner and bar code incorrect</b> |
| Scan appropriate host parameter bar codes                | Ensure bar code not defaced; try scanning test bar code of same bar code type | Move scanner closer to or further from bar code        |

|                                                                     |                                                                               |                                                        |
|---------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------|
| <b>Scanner not decoding bar code</b>                                |                                                                               |                                                        |
| <b>Scanner not programmed for bar code type</b>                     | <b>Bar code unreadable</b>                                                    | <b>Distance between scanner and bar code incorrect</b> |
| Ensure scanner is programmed to read type of bar code being scanned | Ensure bar code not defaced; try scanning test bar code of same bar code type | Move scanner closer to or further from bar code        |

RECOMMENDED USAGE GUIDE - OPTIMUM BODY POSTURE

Avoid Extreme Wrist Angles



Avoid Bending



Avoid Reaching



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.

REGULATORY INFORMATION

Zebra reserves the right to make changes to any product to improve reliability, function, or design. Zebra does not assume any product liability arising out of, or in connection with, the application or use of any product, circuit, or application described herein. No license is granted, either expressly or by implication, estoppel, or otherwise under any patent right or patent, covering or relating to any combination, system, apparatus, machine, material, method, or process in which Zebra products might be used. An implied license exists only for equipment, circuits, and subsystems contained in Zebra products.

Power Supply

Use ONLY an approved UL LISTED ITE (IEC/EN 60950-1, LPS) power supply with electrical ratings: output 5 Vdc, min 850mA with a maximum ambient temperature of at least 50 degrees C. Use of an alternative power supply will invalidate any approvals given to this unit and may be dangerous.

Warranty

For the complete Zebra hardware product warranty statement, go to: <http://www.zebra.com/warranty>

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>.

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/wee>.  
**Bulgarian:** За всички от ЕС: След края на ползването им всички продукти трябва да се върнат на Zebra за рециклиране. За информация относно връщането на продукти, моля посетете наш сайт: <http://www.zebra.com/wee>.  
**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 webových stránkách: <http://www.zebra.com/wee>.  
**Dansk:** Til kunder i EU: Alle produkter skal returneres til Zebra til recykling, når de er udtjente. Læs oplysningerne om returnering af produkter på: <http://www.zebra.com/wee>.  
**Eesti:** EU klientidele: kõik tooted tuleb nende elutsükli lõppedes tagastada taaskasutamise eesmärgil Zebra'ile. Lisainformatsiooni saamiseks loote tagastamise kohta külastage palun aadressi: <http://www.zebra.com/wee>.  
**Espanol:** 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/wee>.  
**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: <http://www.zebra.com/wee>.  
**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, visitate il seguente sito Web: <http://www.zebra.com/wee>.  
**Latviešu:** ES klientiem: visi produkti pēc to kalpošanas mēģa beigām (jebkadā atpakaļ Zebra organizācijai jāatgriež). Lai iegūtu informāciju par produktu nogādāšanu Zebra, lūdzam, skatīties: <http://www.zebra.com/wee>.  
**Lietuvių:** ES vartotojai: visi gaminiai, pasibaigus jų eksploatavimo laikui, turi būti grąžinti užtiklioj: (kompanijai Zebra). Daugiau informacijos, kaip grąžinti gaminius, rasite: <http://www.zebra.com/wee>.

**Magyar:** Az EU-ban vásárlóknak: Minden funkcionem termékét a Zebra vállalatához kell eljuttatni újrahasznosítás céljából. A termék visszatartásának módjával kapcsolatos tudnivalókat látogasson el a <http://www.zebra.com/wee> weboldarra.  
**Malti:** Għal klijenti f'UE: Il-prodotti kollha li jkunu waslu fl-iftahar ta' tagħta li jkunu tagħhom, vidu l-għajnejha għand Zebra għar-riċiklaġġ. Għal aktar taġġir dwar kif għandek trintorna l-prodott, jekk jogħġbok zur: <http://www.zebra.com/wee>.  
**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/wee> 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 <http://www.zebra.com/wee>.  
**Portuguese:** 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/wee>.  
**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/wee>.  
**Slovenčina:** Pre zákazníkov z krajín EU: Všetky výrobky musia byť po uplynutí doby ich životnosti vrátené spoločnosti Zebra na recykláciu. Ďalšie informácie o vrátení výrobkov nájdete na: <http://www.zebra.com/wee>.  
**Slovenski:** Za kupce v EU: vsi izdelki se morajo po poteku življenjske dobe vrniti podjetju Zebra za reciklazo. Za informacije o vračilu izdelka obiščite: <http://www.zebra.com/wee>.  
**Suomi:** Asiakkaita Euroopan unionin alueella: Kaikki tuotteet on palautettava kierrätettäväksi Zebra-yhtiölle, kun tuotetta ei enää käytetä. Lisätietoja tuotteiden palauttamisesta on osoitteessa <http://www.zebra.com/wee>.  
**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/wee>.  
**Türkçe:** AB Mülkietleri için: Kullanım süresi doan tüm ürünler geri dönüştürme için Zebra'ya iade edilmelidir. Ürünlerin nasıl iade edileceği hakkında bilgi için lütfen bu adresi ziyaret edin: <http://www.zebra.com/wee>.  
**TURKISH WEEE Statement of Compliance**  
EEE Yönetmeliğine Uygundur

Laser Labels

In accordance with Clause 5, IEC 825 and EN60825, the following information is provided to the user:

ENGLISH

CLASS 1

CLASS 2

CLASS 1 LASER PRODUCT

LASER LIGHT

DO NOT STARE INTO BEAM

CLASS 2 LASER PRODUCT

DANISH / DANSK

KLASSE 1

KLASSE 2

KLASSE 1 LASERPRODUKT

LASERLYF

SE IKKE IND I STRÅLEN

KLASSE 2 LASERPRODUKT

DUTCH / NEDERLANDS

KLASSE 1

KLASSE 2

KLASSE-1 LASERPRODUKT

LASERLICHT

NIET IN STRAAL STAREN

KLASSE-2 LASERPRODUKT

FINNISH / SUOMI

LUOKKA 1

LUOKKA 2

LUOKKA 1 LASERTUOTE

LASERVALO

ÄLÄ TUIJOTA SÄDETTÄ

LUOKKA 2 LASERTUOTE

FRENCH / FRANÇAIS

CLASSE 1

CLASSE 2

PRODUIT LASER DE CLASSE 1

LUMIERE LASER

NE PAS REGARDER LE RAYON/FXEMENT

PRODUIT LASER DE CLASSE 2

GERMAN / DEUTSCH

KLASSE 1

KLASSE 2

LASERPRODUKT DER KLASSE 1

LASERSTRAHLEN

NICHT DIREKT IN DEN LASERSTRAHL

SCHAUEN

LASERPRODUKT DER KLASSE 2

JAPANESE / 日本語

第1種

第2種

第1種レーザー製品

レーザー光線

光線を見つめないでください

第2種レーザー製品

HEBREW

רמה 1

רמה 2

מוצר לייזר רמה 1

אזהרה: אל תזריק אל תוך העין

מוצר לייזר רמה 2

ITALIAN / ITALIANO

CLASSE 1

CLASSE 2

PRODOTTO AL LASER DI CLASSE 1

LUCE LASER

NON FISSARE IL RAGGIO/PRODOTTO

AL LASER DI CLASSE 2

NORWEGIAN / NORSK

KLASSE 1

KLASSE 2

LASERPRODUKT, KLASSE 1

LASERLYS IKKE STIRR INN ILYSSTRÅLEN

LASERPRODUKT, KLASSE 2

PORTUGUESE / PORTUGUÊS

CLASSE 1

CLASSE 2

PRODUTO LASER DA CLASSE 1

LUZ DE LASER NÃO FIXAR O RAIÃO LUMINOSO

PRODUTO LASER DA CLASSE 2

SPANISH / ESPAÑOL

CLASE 1

CLASE 2

PRODUCTO LASER DE LA CLASE 1

LUZ LASER

NO MIRE FJAJAMENTE EL HAZ

PRODUCTO LASER DE LA CLASE 2

SWEDISH / SVENSKA

KLASS 1

KLASS 2

LASERPRODUKT KLASS 1

LASERLJUS STIRRA INTE MOT STRÅLEN

LASERPRODUKT KLASS 2

CHINESE / 简体中文

1类

2类

1类激光产品

激光切勿注视光束

2类激光产品

KOREAN / 한국어

1등급

2등급

1등급 레이저 제품

레이저 광선

이 광선을 주시하지 마십시오.

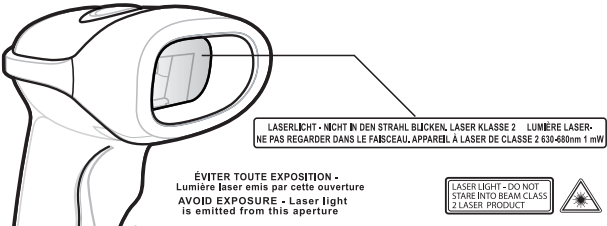
2등급 레이저 광선

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.

Ukraine

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



Regulatory Information

This guide applies to Model Number LS2208.

All Zebra devices are designed to be compliant with rules and regulations in locations they are sold and will be labeled as required.

Local language translations are available at the following website:  
<http://www.zebra.com/support>.

Laser Devices

Zebra products using lasers complies with 21CFR1040.10 and 1040.11 except for deviations pursuant to laser notice No. 50, dated June 24, 2007 and IEC 60825-1 (Ed. 2.0), EN60825-1:2007. The laser classification is marked on one of the labels on the product. Class 1 Laser devices are not considered to be hazardous when used for their intended purpose.

The following statement is required to comply with US and international regulations:

**Caution:** Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure.

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.

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 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 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.

Marking and European Economic Area (EEA)



Statement of Compliance

Zebra hereby declares that this device is in compliance with all the applicable Directives, 2004/108/EC, 2006/95/EC and 2011/65/EU. A Declaration of Conformity may be obtained from the following web site: <http://www.zebra.com/doc>

Japan (VCCI) - Voluntary Control Council for Interference

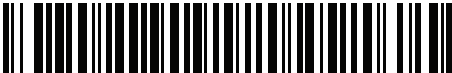
この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。取扱説明書に従って正しい取り扱いをして下さい。 This is a Class B product based on the standard of the Voluntary Control Council for Interference from Information Technology Equipment (VCCI). If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.

POST IN WORK AREA



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

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72-11882-02 Revision A March 2015



LS2208

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<http://www.zebra.com/ls2208>