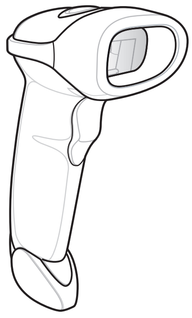
LS2208
QUICK START GUIDE

http://www.zebracom/LS2208

See Product Reference Guide for detailed information



POST IN WORK AREA

SET DEFAULTS / ENTER KEY BAR CODES

SET DEFAULTS

RETURN TO FACTORY DEFAULTS

ADD AN ENTER KEY (Carriage Return/Line Feed)

To add an Enter key after scanned data, scan the bar code below.

ADD AN ENTER KEY (CARRIAGE RETURN/LINE FEED)

TAB KEY BAR CODE

ADD A TAB KEY

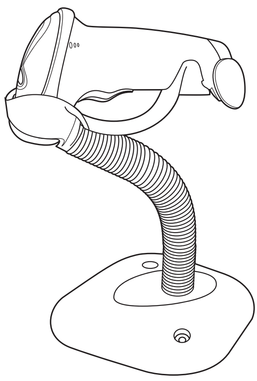
To add a **Tab** key after scanned data, scan the bar code below.

ADD A TAB KEY

SCANNER FEATURES

1 Scan Window
2 LED
3 Scan Trigger

PRESENTATION MODE



USB CAPS LOCK OVERRIDE BAR CODE

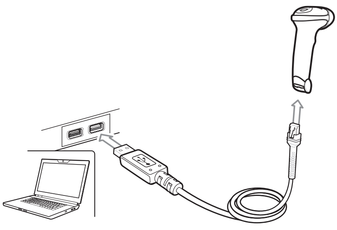
USB - OVERRIDE CAPS LOCK KEY (ENABLE)

*USB - DO NOT OVERRIDE CAPS LOCK KEY (DISABLE)

STEP 1 - CONNECT HOST INTERFACE

USB

NOTE: Cables may vary depending on configuration



STEP 2 - SET UP INTERFACE (Scan Host Bar Codes)

USB

Scan *ONE* of the bar codes below

The scanner automatically detects the USB host and uses the default setting.
If the default (*) does not meet your requirements, scan another host bar code below.

*USB KEYBOARD (HID)

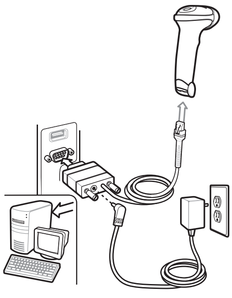
IBM OPOS (IBM HAND-HELD USB with FULL SCAN DISABLE)

IBM HAND-HELD USB

IBM TABLE TOP USB

SNAPI WITHOUT IMAGING

RS-232



RS-232

Scan *ONE* of the bar codes below

The scanner automatically detects the RS-232 host and uses the default setting.
If the default (*) does not meet your requirements, scan another host bar code below.

*STANDARD RS-232

NIXDORF RS-232 MODE B

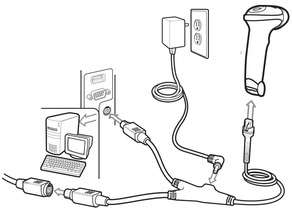
ICL RS-232

FUJITSU RS-232

NIXDORF RS-232 MODE A

OPOS/JPOS

Keyboard Wedge



Keyboard Wedge

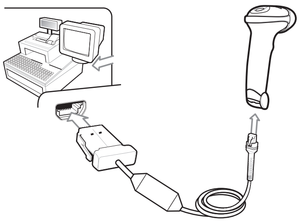
Scan a bar code below

Scanners using an auto-host detect cable automatically detect the keyboard wedge host and use the default setting. If the default (*) does not meet your requirements, scan the IBM AT NOTEBOOK bar code below.
If using a standard keyboard wedge cable, scan the required host bar code below.

*IBM PC/AT and IBM PC COMPATIBLE

IBM AT NOTEBOOK

IBM 46XX



IBM 46XX

Scan *ONE* of the bar codes below

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

NON-IBM SCANNER EMULATION (PORT 5B)

TABLE-TOP SCANNER EMULATION (PORT 17)

HAND-HELD SCANNER EMULATION (PORT 9B)

123Scan²

ABOUT 123Scan²

123Scan² 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

LS2208

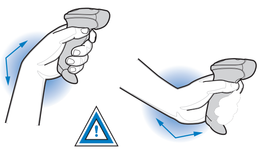
SCANNING

POST IN WORK AREA

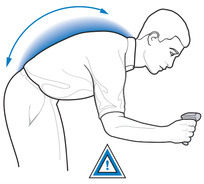
Aiming

RECOMMENDED USAGE GUIDE - OPTIMUM BODY POSTURE

Avoid Extreme Wrist Angles



Avoid Bending



Avoid Reaching

BEEPER INDICATIONS

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 **Cancel** bar code scanned	*Low/high beep*

LED INDICATIONS

Indication	LED Indicator
Scanner is on and ready to scan, or no power to scanner	*Off*
Bar code is successfully decoded	*Green*
Transmission error	*Red*

*Local Contact:*_____

TROUBLESHOOTING

Scanner is not working	
No power to scanner	*Check system power*
Scanner is disabled	*Ensure that correct host interface cable is used*
Scanner decodes bar code, but does not transmit data	
Host interface not configured properly	*Use auto host detect cable, or scan appropriate host bar codes*
Interface cable is loose	*Ensure all cable connections are secure*

Scanner does not decode bar code	
Scanner not programmed for bar code type	*Enable that bar code type*
Bar code is unreadable	*Ensure 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 scanner closer to or further from bar code*
Scanned data incorrectly displayed on host	
Host interface not configured properly	*Scan appropriate host parameter bar codes*

REGULATORY INFORMATION

We reserve the right to make changes to any product to improve reliability, function, or design.

We do 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 our products might be used. An implied license exists only for equipment, circuits, and subsystems contained in our products.

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

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.

Any changes or modifications to Zebra equipment, not expressly approved by Zebra , could void the user's authority to operate the equipment.

CAUTION:
Only use Zebra approved and UL Listed accessories.

Declared maximum operating temperature: 40°C.

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.
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.

Health and Safety Recommendation

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.

Power Supply
Use ONLY an approved UL LISTED ITE (IEC/EN 60950-1, SELV) power supply with electrical ratings: Output 5Vdc, min 650mA, with a maximum ambient temperature of at least 40 degrees C. Use of alternative power supply will invalidate any approvals given to this unit and may be dangerous.

Radio Frequency Interference Requirements -FCC
Tested to comply with FCC Standards FOR HOME OR OFFICE USE

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 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 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.

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

기 종 별
B급 기기
(가정용 방송통신기자재)

사 용 자 안 내 문
이 기기는 가정용(B급) 전자파적합기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.

Other Countries

Brazil
Regulatory declarations for LS2208 - BRAZIL

For more information consult the website www.anatel.gov.br

Declarações Regulamentares para LS2208 - Brazil
Nota: A marca de certificação se aplica ao Transceptor, modelo LS2208.
Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário.

Para maiores informações sobre ANATEL consulte o site: www.anatel.gov.br

Chile
Este equipo cumple con la Resolución No 403 de 2008, de la Subsecretaria de telecomunicaciones, relativa a radiaciones electromagnéticas.

Mexico
Restrict Frequency Range to: 2.450 – 2.4835 GHz.

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.

S. Korea
For a radio equipment using 2400–2483.5MHz or 5725–5825MHz,
the following two expression should be displayed;

무선설비는 운용 중 전파혼선 가능성이 있음

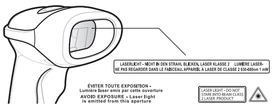
당해 무선설비 는 전파혼선 단 가능성이 있으므로 인명안전과 관련된 서비스는 할 수 없습니다.

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。
前項合法通信，指依電信規定作業之無線電通信。
低功率射頻電機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。

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



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.
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.
Ελληνικό: 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.
Eesti: EL klientidele: kõik tooted tuleb nende eluea lõppedes tagastada taaskasutamise eesmärgil Zebra'le. Lisainformatsiooni saamiseks toote tagastamise kohta külastage palun aadressi: 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.
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.
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.
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.
Lietuvių: ES vartotojams: visi gaminiai, pasibaigus jų eksploatacijos laikui, turi būti grąžinti utilizuoti į kompaniją „Zebra". Daugiau informacijos, kaip grąžinti gaminį, rasite: 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.
Malti: Għal klijenti fl-UE: il-prodotti kollha li jkunu waslu fl-aħħar tal-ħajja ta' l-użu tagħhom, irid jiġu rritornati għand Zebra għar-riċiklaġġ. Għal aktar tagħrif dwar kif għandek tirritorna l-prodott, jekk joħgbok zur: 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.
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 EÚ: 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.
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.
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

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	O	O	O	O	O
电路模块 (Circuit Modules)	X	O	O	O	O	O
电缆及电缆组件 (Cables and Cable Assemblies)	X	O	O	O	O	O
塑料和聚合物部件 (Plastic and Polymeric Parts)	O	O	O	O	O	O
光学和光学组件 (Optics and Optical Components)	X	O	X	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：表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 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GB/T 26572 规定的限量要求。（企业可在此处，根据实际情况对上表中打“×”的技术原因进行进一步说明。）

This table was created to comply with China RoHS requirements.

ZEBRA

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

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LS2208