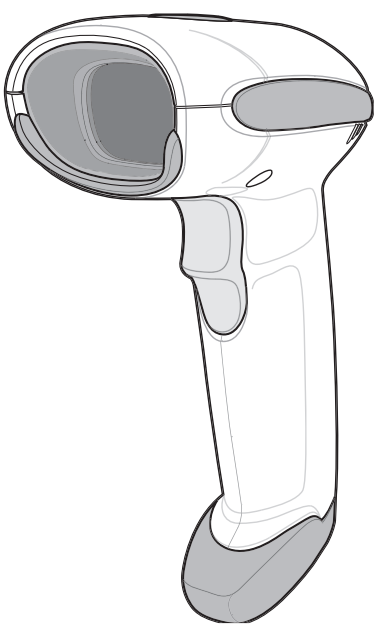
LS 4208

Quick Reference Guide



symbol®

The Enterprise Mobility Company™

Symbol Technologies, Inc.
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Holtsville, N.Y. 11742-1300
http://www.symbol.com

Patents
This product is covered by one or more of the patents listed on the website:
www.symbol.com/patents.

Translated Guides
Pour consulter la version traduite de ce guide, reportez-vous au CD du LS 4208 ou visitez le site Web ci-dessous

Per ottenere una versione tradotta della presente guida, consultare il CD LS 4208 oppure visitare il sito Web riportato sotto.

Die übersetzte Version dieser Kurzübersicht finden Sie auf der CD-ROM zum LS 4208 oder auf der folgenden Website.

Podrá encontrar la versión traducida de esta guía en el CD del LS 4208 o bien en la siguiente página Web.

Para obter uma versão traduzida deste guia, consulte o CD do LS 4208 ou visite o site abaixo.

各国語版のガイドについては、LS 4208 CD **を参照するか、以下の** Web **サイトにアクセスしてください。**

有关本指南的译文版本，请参见 LS 4208 CD 或访问以下网站。

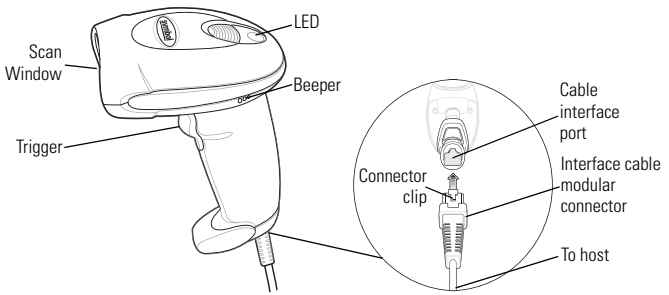
본 설명서의 번역본은 LS 4208 CD 또는 아래 주소의 웹 사이트에서 확인할 수 있습니다 .

http://www.symbol.com/manuals.

Introduction

The LS 4208 scanner combines excellent scanning performance and advanced ergonomics to provide the best value in a lightweight laser scanner. Whether used as a hand-held scanner or in hands-free mode in a stand, the scanner ensures comfort and ease of use for extended periods of time. Before programming the scanner, scan the appropriate bar code(s), beginning on page 5, to communicate with the host.

Parts

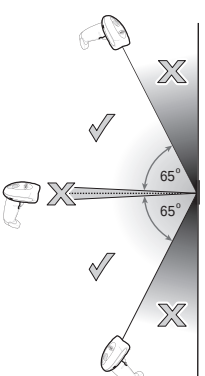


Inserting and Removing the Interface Cable

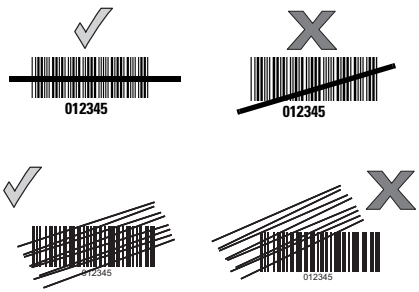
To connect the interface cable, insert the interface cable's modular connector into the cable interface port.

To remove the interface cable, unplug the installed cable's modular connector by depressing the connector clip with the tip of a screwdriver.

Aiming



Scanning



Beeper Definitions

The scanner issues different beep sequences and patterns to indicate status. The table below defines beep sequences that occur during both normal scanning and while programming the scanner.

Beeper Sequence	Indication
Standard Use	
Low/medium/high beep	Power up.
Short high beep	A bar code symbol was decoded (if decode beeper is enabled).
4 long low beeps	A transmission error was detected in a scanned symbol. The data is ignored. This occurs if a unit is not properly configured. Check option setting.
5 low beeps	Conversion or format error.
Lo/hi/lo beep	ADF transmit error.
Hi/hi/hi/lo beep	RS-232 receive error.
Parameter Menu Scanning	
Short high beep	Correct entry scanned or correct menu sequence performed.
Lo/hi beep	Input error, incorrect bar code or "Cancel" scanned, wrong entry, incorrect bar code programming sequence; remain in program mode.
Hi/lo beep	Keyboard parameter selected. Enter value using bar code keypad.
Hi/lo/hi/lo beep	Successful program exit with change in the parameter setting.
Low/hi/low/hi beep	Out of host parameter storage space. Scan *Set Defaults* on page 5.

Beeper Sequence	Indication
Code 39 Buffering	
Hi/lo beep	New Code 39 data was entered into the buffer.
3 Beeps - long high beep	Code 39 buffer is full.
Lo/hi/lo beep	The Code 39 buffer was erased or there was an attempt to clear or transmit an empty buffer.
Lo/hi beep	A successful transmission of buffered data.
Host Specific	
USB only	
4 short high beeps	Scanner has not completed initialization. Wait several seconds and scan again.
Scanner gives a power-up beep after scanning a USB Device Type.	Communication with the bus must be established before the scanner can operate at the highest power level.
This power-up beep occurs more than once.	The USB bus may put the scanner in a state where power to the scanner is cycled on and off more than once. This is normal and usually happens when the host PC cold boots.
RS-232 only	
1 short high beep	A <BEL> character is received and Beep on <BEL> is enabled.

LED Definitions

In addition to beeper sequences, the scanner communicates with the user using a two-color LED display. The table below defines LED colors that display during scanning.

LED	Indication
Off	No power is applied to the scanner, or the scanner is on and ready to scan.
Green	A bar code was successfully decoded.
Red	A data transmission error or scanner malfunction occurred.

Troubleshooting

Problem	Possible Cause	Possible Solutions
Nothing happens when the trigger is pulled.	No power to the scanner.	Check the system power. Ensure the power supply is connected if the configuration requires a power supply.
	Interface/power cables are loose.	Check for loose cable connections.
Laser comes on, but symbol does not decode.	Scanner is not programmed for the correct bar code type.	Ensure the scanner is programmed to read the type of bar code scanned. Refer to the LS 4208 Product Reference Guide, p/n 72E-69413-xx, for more information.
	Bar code symbol is unreadable.	Check the symbol to ensure it is not defaced. Try scanning test symbols 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.
Symbol is decoded but not transmitted to the host.	Scanner is not programmed for the correct host type.	Scan the appropriate host type bar code.
Scanned data is incorrectly displayed on the host.	Scanner is not programmed to work with the host.	Ensure proper host is selected. Check the scanner's host type parameters or editing options. • For RS-232, ensure the scanner's communication parameters match the host's settings. • For a keyboard wedge configuration, ensure the system is programmed for the correct keyboard type, and the CAPS LOCK key is off. Ensure editing options (e.g., UPC-E to UPC-A conversion) are properly programmed. Refer to the LS 4208 Product Reference Guide, p/n 72E-69413-xx, for more information.

Programming Bar Codes

Following are some frequently used programming bar codes.

Note: For additional host types, refer to the *LS 4208 Product Reference Guide*, p/n 72E-69413-xx, available on the LS 4208 CD, or on the Symbol website: http://www.symbol.com/manuals.

Set Defaults

Scan **SET DEFAULTS** to set all parameters to their default values.

SET DEFAULTS

Scanning Modes

Scan the appropriate bar code below to determine the scanning pattern.

- **SINGLE LINE ONLY** - No up and down scan line movement (no raster).
- **MULTI-LINE SMART RASTER** - The scan line begins as a single line and moves up and down (rasters) when a partial scan of a bar code is detected, or no bar code is decoded 500 ms after the trigger is pulled.
- **MULTI-LINE ALWAYS RASTER** (default) - Rastering (up and down scan line movement) begins immediately.

SINGLE LINE ONLY

MULTI-LINE SMART RASTER

MULTI-LINE ALWAYS RASTER (Default)

Host Type

If a Synapse cable is used (i.e., part number STIxx-xxxx), the scanner autodetects the Synapse cable and there is no need to scan bar codes to enable the Synapse host.

If a USB interface is used, the scanner autodetects the USB and defaults to the HID keyboard interface. See page 8 to select the IBM hand-held host type. Refer to the *LS 4208 Product Reference Guide*, p/n 72E-69413-xx, for additional USB host types.

If a Keyboard Wedge, RS-232, Wand Emulation, Scanner Emulation, or IBM 46XX is used, the appropriate host type must be scanned. Select the appropriate host type from the bar codes that follow.

Keyboard Wedge Host Type

IBM PC/AT and IBM PC COMPATIBLES

Country Keyboard Types (Country Codes)

NORTH AMERICAN (Default)

FRENCH Windows

FRENCH CANADIAN Windows 95/98

French Canadian Windows XP/2000

GERMAN Windows

Country Keyboard Types (Country Codes)

SPANISH Windows

ITALIAN Windows

SWEDISH Windows

UK ENGLISH Windows

JAPANESE Windows

PORTUGUESE-BRAZILIAN Windows

RS-232 Host Types

STANDARD RS-232

ICL RS-232

RS-232 Host Types

NIXDORF RS-232 MODE A

NIXDORF RS-232 MODE B

FUJITSU RS-232

OPOS/JPOS

USB Host Types

HID KEYBOARD EMULATION

IBM HAND-HELD USB

IBM 46XX Host Types

PORT 5B

PORT 9B

Wand Emulation Host Type

SYMBOL WAND

Many Wand hosts require input as Code 39 data. Scan the following bar codes to enable or disable transmission of data to the Wand host as Code 39 data.

ENABLE CONVERT TO CODE 39 FOR WAND HOST

DISABLE CONVERT TO CODE 39 FOR WAND HOST (Default)

Scanner Emulation Host Type

Scan the bar code below to enable the Scanner Emulation host.

ENABLE SCANNER EMULATION HOST

Carriage Return/Line Feed

To append a carriage return/line feed to all transmitted data, scan the following bar codes in the order shown. To cancel this operation, the **SET DEFAULTS** bar code on page 5, or refer to the *LS 4208 Product Reference Guide*.

SCAN OPTIONS

<DATA><SUFFIX>

ENTER

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

All Symbol 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 Symbol Technologies equipment, not expressly approved by Symbol Technologies, could void the user's authority to operate the equipment.

Power Supply

Note: Use only a Symbol-approved power supply (p/n 50-14000-008, 50-14000-009 or 50-14000-010) output rated 5 VDVC and minimum 650mA. The power supply is certified to EN60950 with SELV outputs. Use of alternative power supply will invalidate any approval given to this device and may be dangerous.

Hinweis: Benutzen Sie nur eine von Symbol Technologies genehmigte Stromversorgung (Teilenr. 50-14000-008, 50-14000-009, 50-14000-010) mit einer Ausgangsleistung von 5 VDC (Gleichstrom) und mindestens 650mA. Die Stromversorgung ist nach EN60950 für die Verwendung in SELV-Stromkreisen zertifiziert. Bei Verwendung eines anderen Netzteils werden alle für das Gerät gewährten Genehmigungen außer Kraft gesetzt, und der Betrieb kann gefährlich sein.

Radio Frequency Interference Requirements

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 instruction manual, may cause harmful interference to radio communications. However there is no guarantee that interference will not occur in a particular installation. If the 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:

- Re-orient 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

Symbol Technologies, Inc., hereby declares that this device is in compliance with all the applicable Directives, 89/336/EEC, 73/23/EEC. A Declaration of Conformity may be obtained from http://www2.symbol.com/doc/.

Laser Devices

Symbol devices using lasers comply with 21CFR1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated July 26, 2001 and EN60825-1:1994+ A1:2002 +A2:2001, IEC60825-1:1993+A1:1997+A2:2001.

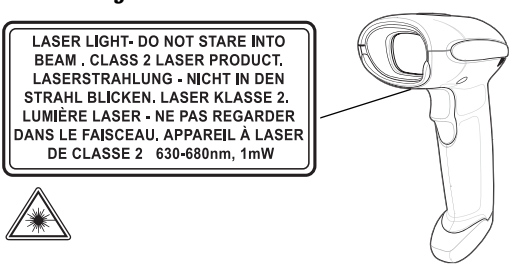
The laser classification is marked on one of the labels on the device.

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.

Scanner Labeling



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

ENGLISH
CLASS 1 CLASS 1 LASER PRODUCT
CLASS 2 LASER LIGHT
DO NOT STARE INTO BEAM
CLASS 2 LASER PRODUCT

DANISH / DANSK
KLASSE 1 KLASSE 1 LASERPRODUKT
KLASSE 2 LASERLYF
KLASSE 2 LASERPRODUKT

DUTCH / NEDERLANDS
KLASSE 1 KLASSE-1 LASERPRODUKT
KLASSE 2 LASERLICHT
NIET IN STRAAL STARENLASERPRODUKT,
KLASSE-2 LASERPRODUKT

FINNISH / SUOMI
LUOKKA 1 LUOKKA 1 LASERTUOTE
LUOKKA 2 LASERVALO
ÄLÄ TUIJOTA SÄDETTÄ
LUOKKA 2 LASERTUOTE

FRENCH / FRANÇAIS
CLASSE 1 PRODUIT LASER DE CLASSE 1
CLASSE 2 LUMIERE LASER
NE PAS REGARDER LE RAYON FIXEMENT
PRODUIT LASER DE CLASSE 2

GERMAN / DEUTCH
KLASSE 1 LASERPRODUKT DER KLASSE 1
KLASSE 2 LASERSTRAHLEN
NICHT DIREKT IN DEN LASERSTRAHL SCHAUEN
LASERPRODUKT DER KLASSE 2

CHINESE / 简体中文
1 类 1 类激光产品
2 类 激光
切勿注视光束
2 类激光产品

KOREAN / 한국어
1등급 1등급 레이저 제품
2등급 레이저 광선
이 광선을 주시하지 마십시오.
2등급 레이저 제품

HEBREW
רמה 1 מוצר לייזר רמה 1
רמה 2 אור לייזר
אין להביט אל תוך הזרם
מוצר לייזר רמה 2

ITALIAN / ITALIANO
CLASSE 1 PRODOTTO AL LASER DI CLASSE 1
CLASSE 2 LUCE LASER
SE IKKE IND I STRÅLENNON FISSARE IL RAGGIOPRODOTTO
AL LASER DI CLASSE 2

NORWEGIAN / NORSK
KLASSE 1 LASERPRODUKT,KLASSE 1
KLASSE 2 LASERLYS IKKE STIRR INN I LYSSTRÅLEN
LASERPRODUKT, KLASSE 2

PORTUGUESE / PORTUGUÊS
CLASSE 1 PRODUTO LASER DA CLASSE 1
CLASSE 2 LUZ DE LASER NÃO FIXAR O RAIO LUMINOSO
PRODUTO LASER DA CLASSE 2

SPANISH / ESPAÑOL
CLASE 1 PRODUCTO LASER DE LA CLASE 1
CLASE 2 LUZ LASER
NO MIRE FIJAMENTE EL HAZ
PRODUIT LASER DE CLASSE 2

SWEDISH / SVENSKA
KLASS 1 LASERPRODUKT KLASS 1
KLASS 2 LASERLJUS STIRRA INTE MOT STRÅLEN
LASERPRODUKT KLASS 2

JAPANESE / 日本語
クラス1 クラス1 レーザ製品
クラス2 レーザ光線
光線を直視しないでください
クラス2 レーザ製品

Warranty

Subject to the terms of Symbol's hardware warranty statement, the LS 4208 hand held scanner products are warranted against defects in workmanship and materials for a period of five years from the date of shipment.

The Liquid Polymer scan element includes an unprecedented limited lifetime warranty.

For the complete Symbol hardware product warranty statement, go to: http://www.symbol.com/warranty.

Service Information

Before you use the unit, it must be configured to operate in your facility's network and run your applications.

If you have a problem running your unit or using your equipment, contact your facility's Technical or Systems Support. If there is a problem with the equipment, they will contact the Symbol Support Center::

United States	1-800-653-5350	Canada	905-629-7226
United Kingdom	0800 328 2424 (Inside UK) +44 118 945 7529 (Outside UK	Asia/Pacific	337-6588 (Inside Singapore) +65-337-6588 (Outside Singapore)
Australia	1-800-672-906 (Inside Australia) +61-3-9866-6044 (Outside Australia	Austria/Österreich	01-5055794-0 (Inside Austria) +43-1-5055794-0 (Outside Austria)
Denmark/Danmark	7020-1718 (Inside Denmark) +45-7020-1718 (Outside Denmark)	Finland/Suomi	9 5407 580 (Inside Finland) +358 9 5407 580 (Outside Finland)
France	01-40-96-52-21 (Inside France) +33-1-40-96-52-50 (Outside France)	Germany/ Deutschland	6074-49020 (Inside Germany) +49-6074-49020 (Outside Germany)
Italy/Italia	2-484441 (Inside Italy) +39-02-484441 (Outside Italy)	Mexico/México	5-520-1835 (Inside Mexico) +52-5-520-1835 (Outside Mexico)
Netherlands/ Nederland	315-271700 (Inside Netherlands) +31-315-271700 (Outside Netherlands)	Norway/Norge	+47 2232 4375
South Africa	11-809 5311 (Inside South Africa) +27-11-809 5311 (Outside South Africa)	Spain/España	+913244000 (Inside Spain) +34-9-1-320-39-09 (Outside Spain)
Sweden/Sverige	Switchboard: 08 445 29 00 (domestic) Call Center: +46 8 445 29 29 (international)	Europe/Mid-East Distributor Operations	Contact local distributor or call +44 118 945 7360
Latin America Sales Support	1-800-347-0178 (Inside United States) +1-561-483-1275 (Outside United States)		

For the latest version of this guide go to: http://www.symbol.com/manuals.

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