

# QRG

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M i c r o K i o s k



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Holtsville, N.Y. 11742-1300  
<http://www.symbol.com>

#### Patents

This product is covered by one or more of the following U.S. and foreign Patents:

U.S. Patent No. 4,593,186; 4,603,262; 4,607,156; 4,652,750; 4,673,805; 4,736,095;  
4,758,717; 4,760,248; 4,806,742; 4,816,660; 4,845,350; 4,896,026; 4,897,532; 4,923,281;  
4,933,538; 4,992,717; 5,015,833; 5,017,765; 5,021,641; 5,029,183; 5,047,617; 5,103,461;  
5,113,445; 5,130,520; 5,140,144; 5,142,550; 5,149,950; 5,157,687; 5,168,148; 5,168,149;  
5,180,904; 5,216,232; 5,229,591; 5,230,088; 5,235,167; 5,243,655; 5,247,162; 5,250,791;  
5,250,792; 5,260,553; 5,262,627; 5,262,628; 5,266,787; 5,278,398; 5,280,162; 5,280,163;  
5,280,164; 5,280,498; 5,304,786; 5,304,788; 5,306,900; 5,324,924; 5,337,361; 5,367,151;  
5,373,148; 5,378,882; 5,396,053; 5,396,055; 5,399,846; 5,408,081; 5,410,139; 5,410,140;  
5,412,198; 5,418,812; 5,420,411; 5,436,440; 5,444,231; 5,449,891; 5,449,893; 5,468,949;  
5,471,042; 5,478,998; 5,479,000; 5,479,002; 5,479,441; 5,504,322; 5,519,577; 5,528,621;  
5,532,469; 5,543,610; 5,545,889; 5,552,592; 5,557,093; 5,578,810; 5,581,070; 5,589,679;  
5,589,680; 5,608,202; 5,612,531; 5,619,028; 5,627,359; 5,637,852; 5,664,229; 5,668,803;  
5,675,139; 5,693,929; 5,698,835; 5,705,800; 5,714,746; 5,723,851; 5,734,152; 5,734,153;  
5,742,043; 5,745,794; 5,754,587; 5,762,516; 5,763,863; 5,767,500; 5,789,728; 5,789,731;  
5,808,287; 5,811,785; 5,811,787; 5,815,811; 5,821,519; 5,821,520; 5,823,812; 5,828,050;  
5,848,064; 5,850,078; 5,861,615; 5,874,720; 5,875,415; 5,900,617; 5,902,989; 5,907,146;  
5,912,450; 5,914,478; 5,917,173; 5,920,059; 5,923,025; 5,929,420; 5,945,658; 5,945,659;  
5,946,194; 5,959,285; 6,002,918; 6,021,947; 6,029,894; 6,031,830; 6,036,098; 6,047,892;  
6,050,491; 6,053,413; 6,056,200; 6,065,678; 6,067,297; 6,082,621; 6,084,528; 6,088,482;  
6,092,725; 6,101,483; 6,102,293; 6,104,620; 6,114,712; 6,115,678; 6,119,944; 6,123,265;  
6,131,814; 6,138,180; 6,142,379; 6,172,478; 6,176,428; 6,178,426; 6,186,400; 6,188,681;  
6,209,788; 6,209,789; 6,216,951; 6,220,514; 6,243,447; 6,244,513; 6,247,647; 6,308,061;  
6,250,551; 6,295,031; 6,308,061; 6,308,892; 6,321,990; 6,328,213; 6,330,244; 6,336,587;  
6,340,114; 6,340,115; 6,340,119; 6,348,773; 6,380,949; 6,394,355; D305,885; D341,584;  
D344,501; D359,483; D362,453; D363,700; D363,918; D370,478; D383,124; D391,250;  
D405,077; D406,581; D414,171; D414,172; D418,500; D419,548; D423,468; D424,035;  
D430,158; D430,159; D431,562; D436,104.

Invention No. 55,358; 62,539; 69,060; 69,187, NI-068564 (Taiwan); No. 1,601,796;  
1,907,875; 1,955,269 (Japan); European Patent 367,299; 414,281; 367,300; 367,298; UK  
2,072,832; France 81/03938; Italy 1,138,713  
rev. 06/02

## Introduction

The MK2000 system can be used to allow shoppers to become more self sufficient in the retail environment. It provides consumers access to the data critical to make an informed purchasing decision, including verifying prices on bar coded merchandise and obtaining up-to-the-minute information on in-store promotions. In addition to price verification the MK2000's large easy-to-read display can be used as an electronic billboard for instant in-store merchandising and multimedia presentations to promote seasonal sales, in-store promotions, and upcoming events. The programmable function buttons can enhance in-store applications and allow for customer interaction.

Two demonstration applications are available that use a retail environment to demonstrate system capabilities. However, applications are not limited to a retail environment. The capabilities can be adapted for use in other environments.

For detailed information on the MK2000 demonstration applications refer to the *MK2000 Product Reference Guide* (PRG p/n 72-57772-xx).

## About This Guide

This guide provides instructions on the setup of the MK2000. Specific topics in this guide include:

- *Unpacking* on page 2
- *Parts* on page 2
- *Troubleshooting* on page 7
- *Regulatory Information* on page 11
- *Service Information* on back cover.

*For detailed information on the MK2000, refer to the MK2000 Product Reference Guide (PRG p/n 72-57772-xx). The PRG is an electronic document available from the Symbol website.*

*To download the latest PRG version go to:*

***<http://www.symbol.com/manuals>***.

## Unpacking

If any parts are missing or damaged, contact your authorized Customer Support Representative immediately. Refer to this manual's rear cover manual for contact information. Save the shipping box for storing or shipping. Items provided:

- MK2000
- Mounting Template (p/n 72-63572-xx)
- This Quick Reference Guide (p/n 72-57769-xx).

## Parts

The MK2000 parts are shown on page 4, page 5 and page 6. The parts include:

- Touch Screen
- Speakers and Microphone
- Scanner Window
- Function Buttons
- External Ports.

### Touch Screen

Full color 6.4 inch diagonal VGA active matrix LCD (640 X 480 pixels) ideal for presenting text, graphics and motion video clips. The touch screen feature provides greater user interaction and enhances the capabilities of custom designed applications.

### Speakers and Microphone

Speakers are ideal for multimedia presentations and the microphone can be used for recording messages.

### Scanner Window

The Scanner Window protects the scan engine.

## Function Buttons

The MK2000 has four programmable function buttons (shown on page 4). These buttons can be programmed to allow the user to perform various tasks such as navigating through an application and making selections when prompted.

### ***Reset Function***

The Reset function can be activated using the following Function Button sequence (shown on page 4).

Cold Boot

Simultaneously press and hold keys B and C until display goes blank (typically 15 seconds).

## Ports

The MK2000 is equipped with the following external ports located at the rear of the unit (shown on page 5):

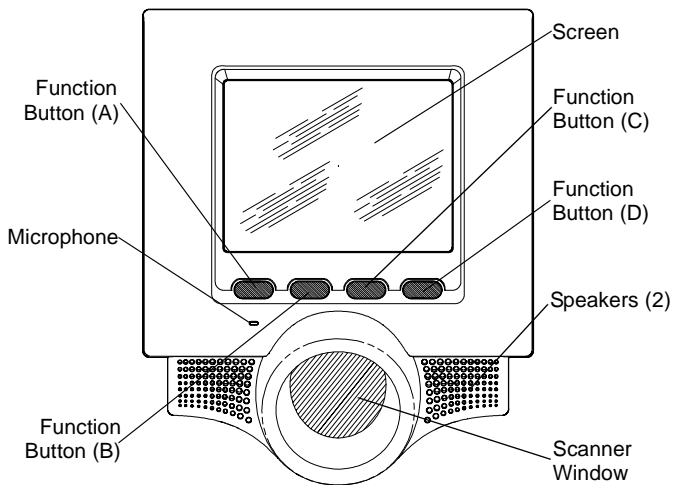
- Power
- Ethernet/Bias-T
- RS485
- Line out - Left External Speaker
- Line out - Right External Speaker
- Headphone Port
- Powered RS232/External (Scanner/Printer).

### ***Power Port***

The MK2000 can be powered by either an external power supply plugged into an AC outlet or by Power-over-Ethernet. If an external power supply is used, it plugs into the power port on the rear of the MK2000 via a 2.0mm barrel jack. The center pin of the jack is positive and the outer sleeve is ground.

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### ***Ethernet/Bias-T***

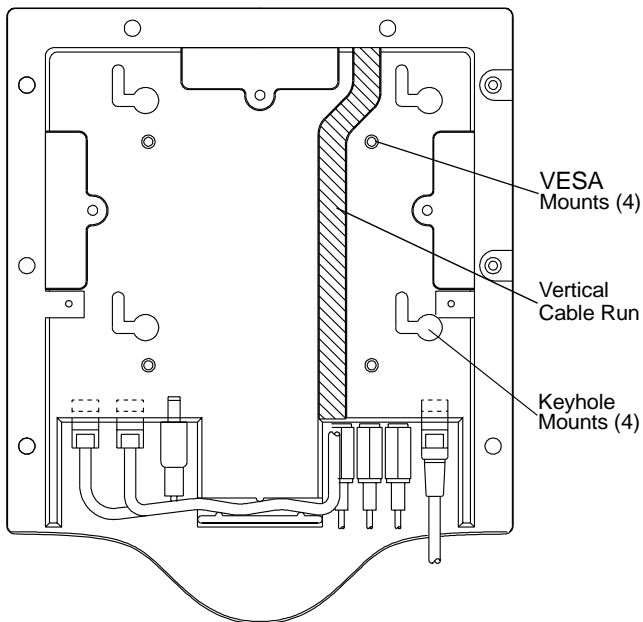
#### **Wired Ethernet: Power via AC Outlet**

The Ethernet/Bias-T port can be used for an Ethernet data connection, it uses a 10-conductor RJ-45 plug. With this Ethernet installation the MK2000 receives power via the AC power supply.

#### **Wired Ethernet: Power via Power-over-Ethernet**

The MK2000 supports Power-over-Ethernet (Symbol Technologies' Bias-T functionality). When an Ethernet (10/100Base-T) cable is connected to the Ethernet/Bias-T port, in addition to being the conduit for data exchange, it can also be used as a conduit to provide power to the MK2000.

## Q u i c k R e f e r e n c e

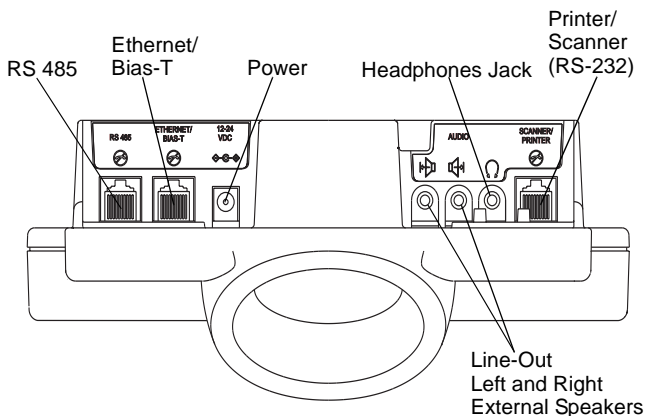


**Note:**

Refer to the *MK2000 Product Reference Guide* (PRG p/n 72-57772-xx) for detailed Installation and Mounting procedures as well as Electrostatic Discharge (ESD) safe handling precautions.

### **RS485**

RS-485 (10-conductor RJ-45 plug) is sometimes termed the Multidrop LAN since it can connect several devices in a LAN network environment. These devices are all connected to a single pair wire (i.e., transmit and receive share the same two wires).



### ***Line out - Left And Right External Speakers***

Provides connections (3.5 mm) for left and right external speakers. Each line is powered, 2.2 watts. Internal speakers are disabled when the external speakers are connected.

Note: Do not connect low powered devices (such as headphones) to the External Speaker ports.

### ***Headphones Jack***

Provides headphone connection (3.5 mm). The internal and external speakers are disabled when the Headphones Jack is used.

### ***RS232/External (Scanner/Printer/Communications)***

The powered RS-232 port (RJ-45 jack, 10 conductor, 5V/500mA) can be used for serial communication with a host or connection of an external device like a decoded scanner. It is important to confirm the cable pin-outs before attaching the cable.



## Troubleshooting

Problem	Possible Causes	Possible Solutions
MK2000 does not turn on.	No power to the device.	<p>Power via AC outlet</p> <ul style="list-style-type: none"> <li>- Check AC power to the power supply. Ensure power supply is plugged into AC power source and the MK2000.</li> </ul> <p>Power via power-over-Ethernet</p> <ul style="list-style-type: none"> <li>- Confirm Ethernet cable is plugged into MK2000 Ethernet/Bias-T port.</li> <li>- Confirm other end of Ethernet cable is plugged into Bias-T (power-over-Ethernet).</li> <li>- Confirm Bias-T (power-over-Ethernet) module is plugged into a power supply.</li> <li>- Perform continuity check on Ethernet cable.</li> </ul> <p>Refer to the <i>MK2000 Product Reference Guide</i> (PRG p/n 72-57772-xx)</p>
MK2000 does not send data to host computer.	MK2000 is not programmed to work with the host. MK2000 is not connected to the host.	<p>Check setup communication parameters.</p> <p>Check cables to host computer.</p> <p>Refer to the <i>MK2000 Product Reference Guide</i> (PRG p/n 72-57772-xx)</p>
How to Re-Boot the MK2000.		Simultaneously press and hold keys B and C until display goes blank (typically 15 seconds, see page 4).
How to load files into the MK2000.		Refer to the <i>MK2000 Product Reference Guide</i> (PRG p/n 72-57772-xx).



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## Q u i c k R e f e r e n c e

- **ActiveSync Software.** Your DEVICE package may include software contained on a CD ROM disc containing the ActiveSync connectivity technology for the personal computer ("ActiveSync"). If ActiveSync is included with your DEVICE, you may install and use the component(s) of ActiveSync in accordance with the terms of the end user license agreement provided with such component(s). If no separate end user license agreement is provided, you may install and use only one (1) copy of such component(s) on a single computer with which you use the DEVICE.
- **Note on Compatibility of ActiveSync.** Notwithstanding any online "help" files or other online information displayed by ActiveSync, neither Microsoft Licensing Inc. nor its suppliers (including Microsoft Corporation) represents or makes any warranty that ActiveSync will operate in a specific manner or operate with any computer or computing device, whether or not such computer(s) or computing device(s) contain Microsoft Windows Operating System software or Microsoft Windows CE Operating System software.
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- **RECOVERY MEDIA.** If SOFTWARE is provided by Symbol Technologies, Inc. on separate media and labeled "Recovery Media" you may use the Recovery Media solely to restore or reinstall the SOFTWARE originally installed on the DEVICE.



- **SOFTWARE TRANSFER ALLOWED BUT WITH RESTRICTIONS.** You may permanently transfer rights under this EULA only as part of a permanent sale or transfer of the DEVICE, and only if the recipient agrees to this EULA. If the SOFTWARE is an upgrade, any transfer must also include all prior versions of the SOFTWARE.

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## 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.



### Laser Devices

Symbol devices using lasers comply with US 21CFR1040.10, and IEC825-1:1993, EN60825-1:1994+A11:1996. The laser classification is marked on one of the labels on the device.

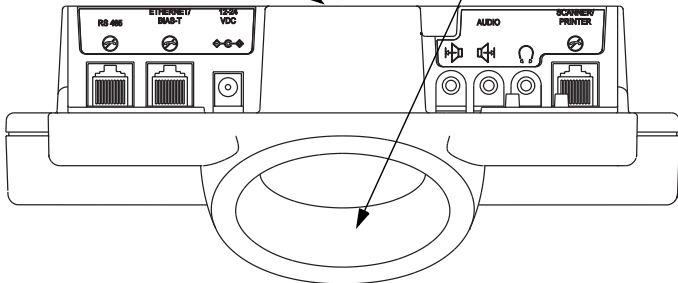
Class 1 Laser devices are not considered to be hazardous when used for their intended purpose. The following statement is required to comply with US and international regulations:

**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

CAUTION- LASER LIGHT WHEN OPEN. DO NOT STARE INTO BEAM.  
 ATTENTION- LUMIÈRE LASER EN CAS D'OUVERTURE. NE PAS REGARDER DANS LE FAISCEAU.  
 VORSICHT- LASERLICHT, WENN ABDECKUNG GEÖFFNET. NICHT IN DEN STRAHL BLICK  
 COMPLIES WITH 21CFR1040.10, IEC 825-1:1993/EN60825-1:1994 + A11:1996



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### Laser Labels

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



#### ENGLISH

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

#### HEBREW

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

#### DANISH / DANSK

KLASSE 1 KLASSE 1 LASERPRODUKT  
KLASSE 2 LASERLYF  
SE IKKE IND I STRÅLEN  
KLASSE 2 LASERPRODUKT

#### ITALIAN / ITALIANO

CLASSE 1 PRODOTTO AL LASER DI CLASSE 1  
CLASSE 2 LUCE LASER  
NON FISSARE IL RAGGIOPRODOTTO  
AL LASER DI CLASSE 2

#### DUTCH / NEDERLANDS

KLASSE 1 KLASSE-1 LASERPRODUKT  
KLASSE 2 LASERLICHT  
NIET IN STRAAL STAREN  
KLASSE-2 LASERPRODUKT

#### NORWEGIAN / NORSK

KLASSE 1 LASERPRODUKT, KLASSE 1  
KLASSE 2 LASERLYS IKKE STIRR INN I LYSSTRÅLEN  
LASERPRODUKT, KLASSE 2

#### FINNISH / SUOMI

LUOKKA 1 LUOKKA 1 LASERTUOTE  
LUOKKA 2 LASERVALO  
ÄLÄ TUUJOTA SÄDETTÄ  
LUOKKA 2 LASERTUOTE

#### PORTUGUESE / PORTUGUÉS

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

#### FRENCH / FRANÇAIS

CLASSE 1 PRODUIT LASER DE CLASSE 1  
CLASSE 2 LUMIÈRE LASER  
NE PAS REGARDER LE RAYON FIXEMENT  
PRODUIT LASER DE CLASSE 2

#### SPANISH / ESPAÑOL

CLASE 1 PRODUCTO LASER DE LA CLASE 1  
CLASE 2 LUZ LASER  
NO MIRE FIJAMENTE EL HAZ  
PRODUCTO LASER DE LA CLASE 2

#### GERMAN / DEUTCH

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

#### SWEDISH / SVENSKA

KLASS 1 LASERPRODUKT KLASS 1  
KLASS 2 LASERLJUS STIRRA INTE MOT STRÅLEN  
LASERPRODUKT KLASS 2

## Power Supply

**Note:** Use only a Symbol-approved power supply P/N 50-14000-138, output rated 24VDC and minimum 1.5A. The power supplies are certified to EN60950 with SELV outputs.

**Hinweis:** Benutzen Sie nur eine Symbol Technologies genehmigt Stromversorgung 50-14000-138 in den Ausgabe: 24VDC und minimum 1.5A. Die Stromversorgung ist bescheinigt nach EN60950 mit SELV Ausgaben.



## FCC Exposure Guidelines

### Remote and Standalone Antenna Configurations

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

## 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 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 device complies with RSS 210 of Industry & Science Canada. 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.

Label Marking: The Term "IC:" before the radio certification only signifies that Industry Canada technical specifications were met.

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.

## CE Marking and European Economic Area (EEA)

RLAN's (2.4GHz) for use through the EEA have the following restrictions:

- Maximum radiated transmit power of 100 mW EIRP in the frequency range 2.400 -2.4835 GHz
- France, equipment is restricted to 2.4465 -2.4835 GHz frequency range
- Belgium outside usage, the equipment is restricted to 2.460 -2.4835 GHz frequency range
- Italy requires a user license for outside usage.

Bluetooth for use through the EEA have the following restrictions:

- Maximum radiated transmit power of 10mW EIRP in the frequency range 2.400 -2.4835 GHz
- Belgium outside usage, the equipment is restricted to 2.460 -2.4835 GHz frequency range
- Italy requires a user license for outside usage.

### **Statement of Compliance**

Symbol Technologies, Inc., hereby, declares that this device is in compliance with the essential requirements and other relevant provisions of Directives 1999/5/EC, 89/336/EEC and 73/23/EEC. Declaration of Conformities may be obtained from <http://www2.symbol.com/doc/>

### **Other Countries**

Mexico - Restrict Frequency Range to: 2.450 - 2.4835 GHz.

Israel - Restrict Frequency Range to: 2.418 - 2.457 GHz.

Sri Lanka- Restrict Frequency Range to: 2.400 - 2.430 GHz.

## **International Roaming**

This device incorporates the International Roaming feature (IEEE 802.11d) which will ensure the product operates on the correct channels for the particular country of use.



# Q u i c k R e f e r e n c e

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## Warranty

**(A) Warranty** Symbol Technologies (hereafter "Seller") hardware Products are warranted against defects in workmanship and materials for a period of twelve (12) months from the date of shipment, unless otherwise provided by Seller in writing, provided the Product remains unmodified and is operated under normal and proper conditions. Warranty provisions and durations on software, integrated installed systems, Product modified or designed to meet specific customer specifications ("Custom Products"), remanufactured products, and reconditioned or upgraded products, shall be as provided in the applicable Product specification in effect at the time of purchase or in the accompanying software license.

**(B) Spare Parts** Spare parts (i.e. parts, components, or subassemblies sold by Seller for use in the service and maintenance of Products) are warranted against defects in workmanship and materials for a period of thirty (30) days from the date of shipment. Spare parts may be new or originate from returned units under the conditions set forth in subsection D below.

**(C) Repair of Symbol-branded hardware** For repairs on Symbol-branded hardware Products under this Agreement, including repairs covered by warranty, the repair services provided are warranted against defects in workmanship and materials on the repaired component of the Product for a period of thirty (30) days from the shipment date of the repaired Product, or until the end of the original warranty period, whichever is longer.

**(D) Product Service** Products may be serviced or manufactured with parts, components, or subassemblies that originate from returned products and that have been tested as meeting applicable specifications for equivalent new material and Products. The sole obligation of Seller for defective hardware Products is limited to repair or replacement (at Seller's option) on a "return to service depot" basis with prior Seller authorization. Customer is responsible for shipment to the Seller and assumes all costs and risks associated with this transportation; return shipment to the Customer will be at Seller's expense. Customer shall be responsible for return shipment charges for product returned where Seller determines there is no defect ("No Defect Found"), or for product returned that Seller determines is not eligible for warranty repair. No charge will be made to Buyer for replacement parts for warranty repairs. Seller is not responsible for any damage to or loss of any software programs, data or removable data storage media, or the restoration or reinstallation of any software programs or data other than the software, if any, installed by Seller during manufacture of the Product.

**(E) Original Warranty Period** Except for the warranty applying solely to the repaired component arising from a repair service as provided in Section C above, the aforementioned provisions do not extend the original warranty period of any Product that had either been repaired or replaced by Seller.

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## Service Information

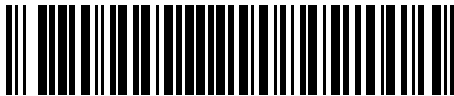
Before you use the unit, it must be configured to operate in your facility's network and run your applications.

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 <sup>1</sup>	1-800-653-5350 1-631-738-2400	Canada	905-629-7226
United Kingdom	0800 328 2424	Asia/Pacific	+65-6796-9600
Australia	1-800-672-906	Austria/Österreich	1-505-5794-0
Denmark/Danmark	7020-1718	Finland/Suomi	9 5407 580
France	01-40-96-52-21	Germany/Deutschland	6074-49020
Italy/Italia	2-484441	Mexico/México	5-520-1835
Netherlands/Nederland	315-271700	Norway/Norge	+47 2232 4375
South Africa	11-8095311	Spain/España	91 324 40 00 Inside Spain
Sweden/Sverige	84452900		+34 91 324 40 00 Outside Spain
Latin America Sales Support	1-800-347-0178 Inside US +1-954-255-2610 Outside US		
Europe/Mid-East Distributor Operations	Contact local distributor or call +44 118 945 7360		

<sup>1</sup>Customer support is available 24 hours a day, 7 days a week.

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



**72-57769-02**  
**Revision B — June 2003**