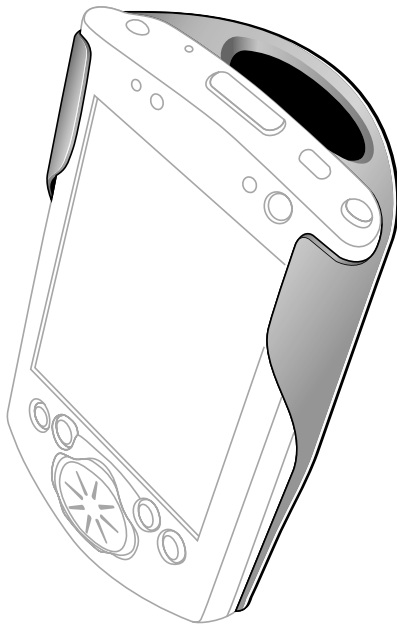


QRG

S P S 3 0 0 0
S C A N / W L A N





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Symbol Technologies, Inc.

One Symbol Plaza

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. 4,496,831; 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; 5,321,246; 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; 6,031,830; 6,036,098; 6,047,892; 6,050,491; 6,053,413; 6,056,200; 6,065,678; 6,067,297; 6,068,190; 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; 6,216,951; 6,220,514; 6,243,447; 6,244,513; 6,247,647; 6,308,061; 6,250,551; 6,295,031; 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 (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. 11/01

Introduction

The SPS 3000 Series is a family of ergonomic expansion packs for the Compaq® iPAQ® Pocket PC device that extend the capabilities of the iPAQ by adding bar code scanning and wireless functionality. Its features include:

- Integrated 1D Scan Engine
- Integrated Spectrum24 802.11b (11Mbps) radio and antenna
- Ergonomic, lightweight design
- 100% compatible with iPAQ cradles and chargers
- Easy to Use.

Configurations

There are three configurations of the SPS 3000, each providing specific features that extend the capabilities of the iPAQ:

- Scan Only - Integrated 1D bar code scanner
- Scan/WLAN - Integrated 1D bar code scan engine, Integrated 802.11b (11Mbps) radio, antenna, and 770mAH Lithium-Ion battery
- WLAN only - Integrated 802.11b (11Mbps) radio and antenna, and 770mAH Lithium-Ion battery.

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



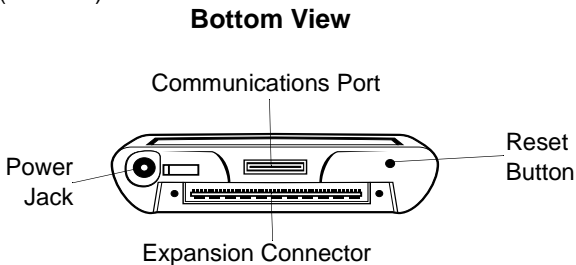
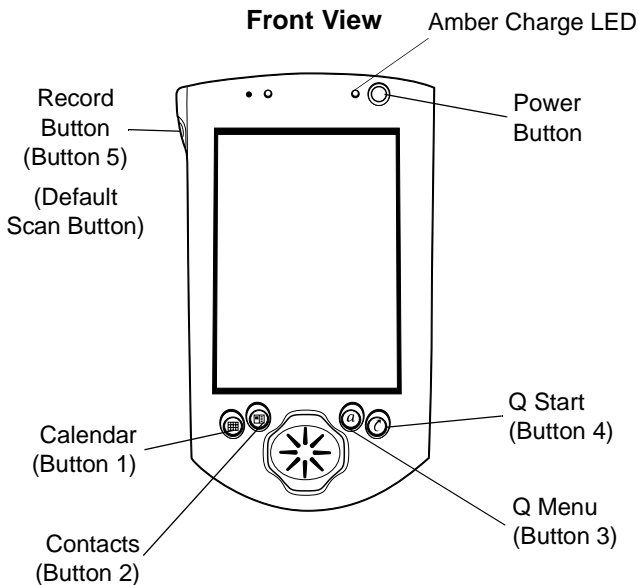
About This Guide

This guide describes how to set up and use the SPS 3000. Specific topics covered include:

- *iPAQ Pocket PC Parts Used with the SPS 3000* on page 3
- *Parts of the SPS 3000* on page 4
- *Installing the SPS 3000 SDK* on page 5
- *Checking the Battery Power* page 5
- *Charging the SPS 3000 Battery* page 7
- *Inserting the iPAQ into the SPS 3000* on page 8
- *Attaching the Lanyard* on page 10
- *Scanning Bar Codes* on page 11
- *Applying the Regulatory Country Stamp* on page 15.

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

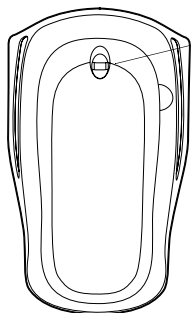
iPAQ Pocket PC Parts Used with the SPS 3000



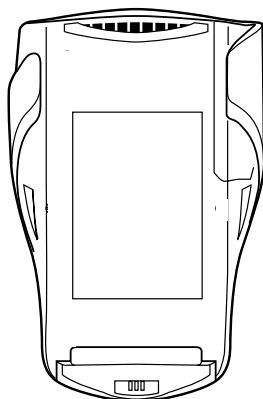
Parts of the SPS 3000

Back View

Handstrap Connector

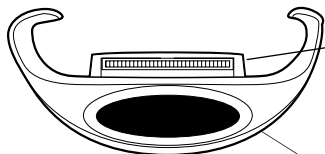


Front View



Top View

Expansion Connector



**Scan Window
(Scan Version Only)**

Installing the SPS 3000 SDK

The Symbol SPS 3000 Windows CE SDK (Software Developer's Kit) provides the tools necessary to create and deploy bar code scanning and Spectrum24 wireless LAN applications for the Compaq iPAQ Pocket PC.

Note: The SDK contains the scan drivers needed to operate the SPS 3000.

Download the SDK from the Software Developer Zone at this web address:

<http://software.symbol.com/devzone>

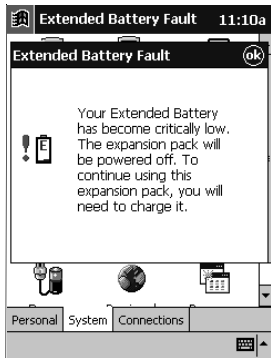
After the SDK is properly installed, reboot the iPAQ by pressing the reset button with the stylus.

Checking the Battery Power (For WLAN units)

The SPS 3000 battery must have a sufficient charge. When the SPS 3000 battery falls below critical levels, the iPAQ automatically shuts down the SPS 3000 and the screen displays pictured on your iPAQ.


This does not affect the iPAQ battery or the operation of the iPAQ.

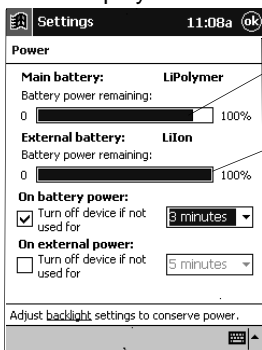
Note: Battery longevity depends upon many factors, such as amount and type of usage. For exam-



ple, extended wireless communications has an impact on battery life. To conserve battery power, the integrated 802.11b radio (WLAN) has the capability to reduce power consumption when wireless communications is not in use.

To check the battery power:

1. Power on the iPAQ by pressing and releasing the power button.
2. Tap  to display the Start screen.
3. Select *Settings*.
4. Select *System* from the bottom of the Settings screen.
5. Scroll the screen, if necessary, and select the *Power* icon to display the Power screen.



iPAQ Battery Status Bar

SPS 3000 Battery Status Bar

When the iPAQ battery charges, the main battery “*power remaining*” status bar continuously updates until the iPAQ battery is fully charged (100%). If the SPS 3000 is connected, and its battery is low, the external battery “*power remaining*” status bar

continuously updates until the SPS 3000 battery is fully charged (100%). The expansion pack battery charges after the iPAQ battery is fully charged.

Note: The SPS 3000 scan only model does not include a battery. Therefore no external battery status bar displays on the Power screen with a scan only model.

Charging the SPS 3000 Battery (For WLAN Units)

The SPS 3000 battery is internal and cannot be removed. The battery can be charged with the expansion pack connected to an iPAQ or unconnected to an iPAQ.

Charging Expansion Pack Alone

1. Insert the power plug from the AC adapter into the power jack on the expansion pack. Plug the other end into a wall outlet.

Note: A fully discharged battery recharges in approximately 2.5 hours. There is no indication that the battery is charging or is fully charged. The iPAQ must be used to check the battery status.



Expansion Pack
Power Jack
WLAN Units

Charging Expansion Pack Connected to an iPAQ

1. Insert the power plug from the AC adapter into the power jack on the iPAQ or on the expansion pack, or place the two



units into a cradle that has the AC adapter power plug connected. Plug the other end of the AC adapter into a wall outlet.

2. The battery in the expansion pack begins to charge only after the battery in the iPAQ is fully charged. The iPAQ battery takes approximately 2.5 hours to charge when fully discharged.
3. Check the state of the expansion pack battery on the "Power" screen under the "External battery:" entry.
4. When expansion pack, when being charged, will have "Re-charging" state: and "Charging state" displays above the bar graph on the iPAQ charging screen.

Note: The bar graph continuously steps from 0 to 100% as the battery is charging.

5. When the expansion pack battery is completely charged, the entry above the bar graph will change to read "Battery power remaining:" and the bar graph will be filled to 100%.
6. When the expansion pack battery is completely charged, remove the external power from the AC adapter.

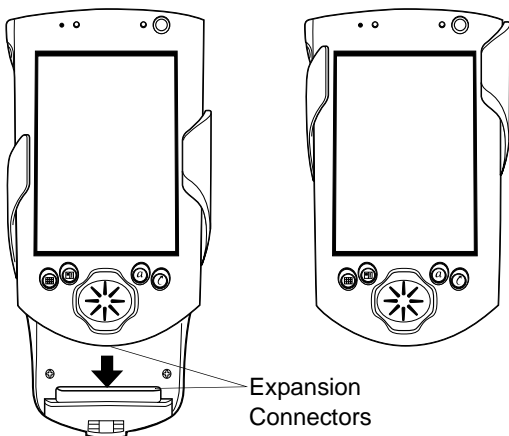
Note: The battery in the expansion pack begins to charge only after the battery in the iPAQ fully charged. The iPAQ battery and the external battery together take approximately 5 hours to charge when both are fully discharged.

Inserting the iPAQ into the SPS 3000

1. Slide the iPAQ through the SPS 3000 sleeves to connect the iPAQ and SPS 3000.

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

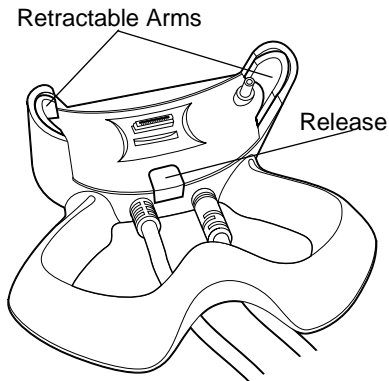
2. The iPAQ and SPS 3000 are joined when their expansion connectors are fully engaged. (You will hear a slight click.)



To remove the SPS 3000, push up on the bottom of the iPAQ to disengage the expansion connector, then slide the iPAQ off the SPS 3000 sleeves.

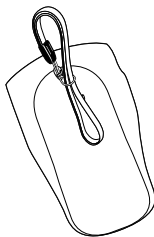
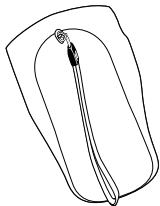
When inserting the iPAQ and SPS 3000 into the cradle, ensure that the retractable stabilizing arms located on the inside of the cradle are extended. These will provide a secure fit between the units. If the arms are not extended before inserting the iPAQ and

SPS 3000, press the release button located on the back of the cradle.



Attaching the Lanyard

Thread the lanyard through the handstrap connector on the back of the expansion pack, leaving a loop to pull the long end of the

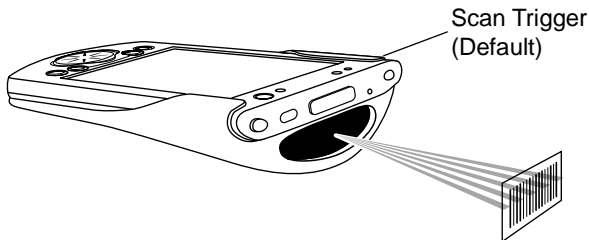


Thread the long end of the lanyard through the loop and pull.

Scanning Bar Codes

To scan bar codes with the SPS 3000:

1. Insert the iPAQ into the SPS 3000.
2. Press the scan trigger to launch the scanning application.
3. Press and hold the scan trigger again to turn on the laser.
4. Ensure the red scan beam covers the entire bar code. Upon successful decode, the Power LED blinks green and you will hear an audible beep.



Maintaining the SPS 3000

For trouble-free service, follow these tips when using your SPS 3000:

- Do not scratch the exit window.
- The exit window of your SPS 3000 contains glass. Do not subject it to any strong impact.
- Protect your SPS 3000 from temperature extremes, hot or cold:
 - Do not leave it on the dashboard of a car on a hot day
 - Keep it away from heaters and other heat sources
 - Keep it away from freezers and other cold sources.



- Do not store or use your SPS 3000 in any location that is extremely dusty, damp or wet.
- If the surface of the SPS 3000 exit window becomes soiled, clean it with a soft lens cloth moistened with a diluted window-cleaning solution.

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

Radio Frequency Interference Requirements

This device has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the Federal Communications Commissions Rules and Regulation. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. 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. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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 which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with FCC Part 15. 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.

Caution: Handheld Devices: FCC RF Exposure Guidelines

This device was tested for typical body-worn operations with the holster providing a minimal spacing of 2.0 cm from the body to the back of the terminal/antenna. To maintain compliance with FCC RF exposure compliance requirements, use only belt-clips, holsters, or similar accessories that maintain a 2.0 cm separation distance between the user's body and the back of the terminal, including the antenna. The use of third-party belt-clips, holsters, and similar accessories should not contain metallic components in its assembly. The use of these accessories that do not satisfy these requirements may not comply with FCC RF exposure compliance requirements, and should be avoided.

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.

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 Union Compliance



Products intended for sale within the European Union are marked with the CE Mark which indicates compliance to applicable Directives and European Normes (EN), as follows. Amendments to these Directives or ENs are included:

Applicable Directives

- Electromagnetic Compatibility Directive 89/336/EEC
- Low Voltage Directive 73/23/EEC

Applicable Standards

- EN 55022:1998, Limits and Methods of Measurement of Radio Disturbance Characteristics of Information Technology Equipment
- EN 55024:1998; Information Technology equipment - Immunity characteristics - Limits and methods of measurement
- IEC 1000-4-2:1995; Electromagnetic compatibility (EMC); Part 4: Testing and measurement techniques; Section 4.2: Electrostatic discharge immunity test
- IEC 1000-4-3:1997; Electromagnetic Compatibility (EMC); Part 4: Testing and measurement techniques; Section 3. Radiated, radio frequency, electromagnetic field immunity test.
- EN 60 950 + A1+A2+A3+A4+A11 - Safety of Information Technology Equipment Including Electrical Business Equipment
- EN 60 825-1 (EN 60 825) - Safety of Devices Containing Lasers

Laser Devices

Symbol products 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 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:

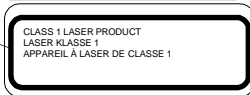
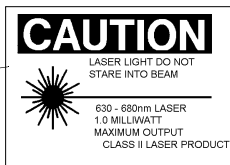
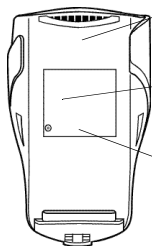
Caution: Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure.

SPS 3000 SCAN/LAN

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

**AVOID EXPOSURE – Laser light is emitted from this aperture.
ÉVITER TOUTE EXPOSITION - Lumière laser émis par cette ouverture**



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

HEBREW

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

DANISH / DANSK

KLASSE 1 KLASSE 2
KLASSE-1 LASERPRODUKT
LASERLYFT
SE IKKE IND I STRÅLEN
KLASSE 2 LASERPRODUKT

ITALIAN / ITALIANO

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

DUTCH / NEDERLANDS

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

NORWEGIAN / NORSK

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

FINNISH / SUOMI

LUOKKA 1 LUOKKA 2
LUOKKA 1 LASERTUOTE
LASERVALO
ÄLÄ TUJOTA SÄDETTÄ

PORTUGUESE / PORTUGUÊS

CLASSE 1 CLASSE 2
PRODUTO LASER DA CLASSE 1
LUZ DE LASER NÃO FIXAR O RAIOS LUMINOSOS
PRODUTO LASER DA CLASSE 2

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

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

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

RF Devices

Symbol's RF products are designed to be compliant with the rules and regulations in the locations into which they are sold and will be labeled as required. The majority of Symbol's RF devices are type approved and do not require the user to obtain license or authorization before using the equipment. Any changes or modifications to Symbol Technologies equipment not expressly approved by Symbol Technologies could void the user's authority to operate the equipment.

The Spectrum24 equipment is intended for use throughout the European Economic Area, but its authorization for use in France is restricted as follows:

- **PAN European Frequency Range:** 2.400 - 2.4835 GHz, identified by -EU suffix to the model number found on the product label
- **France** - Restrict Frequency Range for use in France: 2.4465 - 2.4835 GHz, identified on [Product mmm] by the -FR suffix to the model number found on the product label
- **Belgium** - Operation in an out of doors environment in Belgium must be restricted to 2.460 - 2.4835 GHz band
- **Italy** - Operation in Italy requires a user license
- **Mexico** - Restrict Frequency Range for use in Mexico: 2.450 - 2.4835 GHz
- **Chile** - Restricted Power Output for use in Chile: 50 mW

Applying the Regulatory Country Stamp

A regulatory label is applied to the SPS 3046. The regulatory label signifies that the SPS 3046 is approved for use in the following countries:

United States

Canada

Australia

Japan

Europe

Austria	Belgium	Croatia
Denmark	Estonia	Finland
France	Germany	Greece
Iceland	Ireland	Italy
Liechtenstein	Luxembourg	Netherlands

SPS 3000
SCAN / LAN

Norway

Portugal

Spain

Sweden

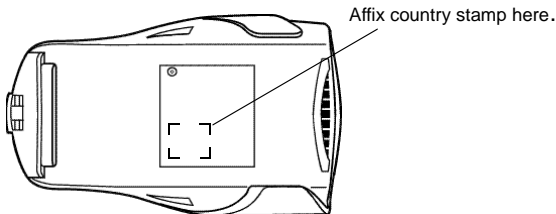
Switzerland

United Kingdom

For approved countries other than those listed above, a sheet of adhesive country stamps may be enclosed within the SPS 3046 package.

To apply the country stamp:

1. Peel the stamp appropriate to the country where the SPS 3046 is used.
2. Apply the country stamp on the bottom right-hand corner of the regulatory label located on the inside of the SPS 3046.



For countries that have not received regulatory approval, an adhesive country stamp is not enclosed. Refer to <http://www.symbol.com/wireless> for the latest list of approved countries.

Operation of the device without a regulatory label or the correct country stamp is illegal.

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

Warranty

Symbol Technologies, Inc. ("Symbol") manufactures its hardware products in accordance with industry-standard practices. Symbol warrants that for a period of twelve (12) months from date of shipment, products will be free from defects in materials and workmanship.

This warranty is provided to the original owner only and is not transferable to any third party. It shall not apply to any product (i) which has been repaired or altered unless done or approved by Symbol, (ii) which has not been maintained in accordance with any operating or handling instructions supplied by Symbol, (iii) which has been subjected to unusual physical or electrical stress, misuse, abuse, power shortage, negligence or accident or (iv) which has been used other than in accordance with the product operating and handling instructions. Preventive maintenance is the responsibility of customer and is not covered under this warranty.

Wear items and accessories having a Symbol serial number will carry a 90-day limited warranty. Non-serialized items will carry a 30-day limited warranty.

Warranty Coverage and Procedure

During the warranty period, Symbol will repair or replace defective products returned to Symbol's manufacturing plant in the US. For warranty service in North America, call the Symbol Support Center at 1-800-653-5350. International customers should contact the local Symbol office or support center. If warranty service is required, Symbol will issue a Return Material Authorization Number. Products must be shipped in the original or comparable packaging, shipping and insurance charges prepaid. Symbol will ship the repaired or replacement product freight and insurance prepaid in North America. Shipments from the US or other locations will be made F.O.B. Symbol's manufacturing plant.

Symbol will use new or refurbished parts at its discretion and will own all parts removed from repaired products. Customer will pay for the replacement product in case it does not return the replaced product to Symbol within 3 days of receipt of the replacement product. The process for return and customer's charges will be in accordance with Symbol's Exchange Policy in effect at the time of the exchange.

Customer accepts full responsibility for its software and data including the appropriate backup thereof.

Repair or replacement of a product during warranty will not extend the original warranty term.

Symbol's Customer Service organization offers an array of service plans, such as on-site, depot, or phone support, that can be implemented to meet customer's special operational requirements and are available at a substantial discount during warranty period.

General

Except for the warranties stated above, Symbol disclaims all warranties, express or implied, on products furnished hereunder, including without limitation implied warranties of merchantability and fitness for a particular purpose. The stated express warranties are in lieu of all obligations or liabilities on part of Symbol for damages, including without limitation, special, indirect, or consequential damages arising out of or in connection with the use or performance of the product. Seller's liability for damages to buyer or others resulting from the use of any product, shall in no way exceed the purchase price of said product, except in instances of injury to persons or property.

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 ^{1,2}	1-800-653-5350 1-631-738-2400	Canada	905-629-7226
United Kingdom	0800 328 2424	Asia/Pacific	337-6588
Australia	1-800-672-906	Austria/Österreich	1-505-5794
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	66810600
South Africa	11-4405668	Spain/España	+913244000
Sweden/Sverige	84452900		
Latin America Sales Support	1-800-347-0178 Inside US +1-561-483-1275 Outside US		
Europe/Mid-East Distributor Operations	Contact local distributor or call +44 208 945 7360		

¹Customer support is available 24 hours a day, 7 days a week.

²Customer support for the expansion pack and CF radio is available at 1-888-489-9568.

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



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