

# QRC

P D T 6 1 0 0 S e r i e s

**symbol<sup>®</sup>**

©1998 - 2001 SYMBOL TECHNOLOGIES, INC. All rights reserved.

Symbol reserves the right to make changes to any product to improve reliability, function, or design.

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

Symbol and the Symbol logo are registered trademarks of Symbol Technologies, Inc. Other product names mentioned in this manual may be trademarks or registered trademarks of their respective companies and are hereby acknowledged.

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; 5,850,078; 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; 6,036,098; 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; 6,250,551; 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. 10/01

## Introduction

The PDT 6100 is a ruggedized, ergonomically designed hand-held portable computer which offers:

- 8088-compatible architecture
- DR-DOS compatibility
- key input from a 22-key, 35-key, or 46-key keyboard
- integrated laser scanning capability
- 8- or 16-line by 20-character display
- batch communications or RF network communications (with internally mounted antenna):
  - Spectrum One<sup>®</sup> RF network (6110)
  - Spectrum24<sup>®</sup> RF network (6140 Series)

The PDT 6100 has two scan engine configurations:

- SE 900
- DB9 connector with external scanner.

All configurations have the same operating instructions.

The battery-powered PDT 6100 uses a rechargeable NiMH battery pack.

## About This Guide

This guide provides instructions for the following procedures:

- *Parts of the PDT 6100* on page 2
- *Required Accessories* on page 4
- *Optional Accessories* on page 4
- *Providing Power* on page 4
- *Installing New or Recharged Batteries* on page 4
- *Operating the PDT 6100* on page 8
- *Using the Integrated Laser Scanner* on page 11
- *Running Communications* on page 12

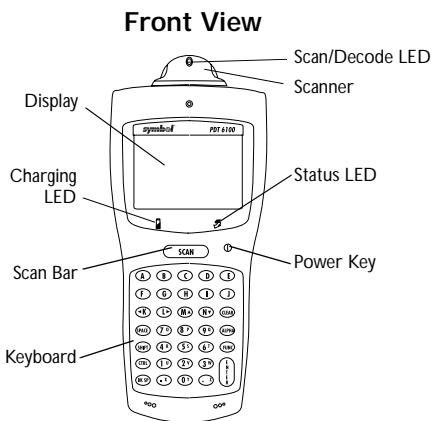
- *Troubleshooting* on page 14.

## Other Manuals

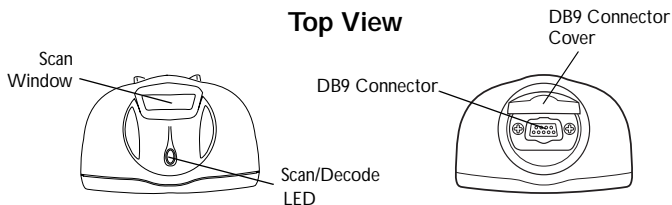
*PDT 6100 Product Reference Guide, p/n 70-33222-xx*

*CRD 6100 Quick Reference Guide, p/n 70-37395-xx*

## Parts of the PDT 6100



**SE 900 Scan Engine**

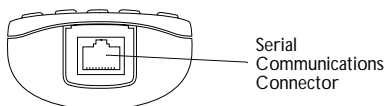


**SE 900 Scan Engine**

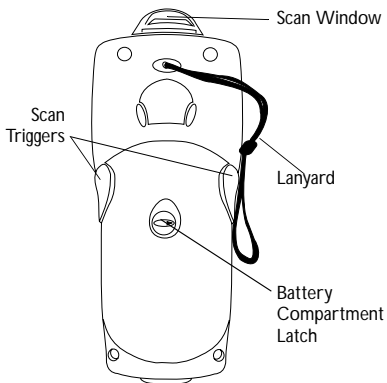
**DB9 Connector**

## Parts of the PDT 6100 (cont'd)

### *Bottom View*



### *Back View*



### **SE 900 Scan Engine**

## Required Accessories

Required PDT 6100 accessories include:

- 1500 mAh Nickel Metal Hydride (NiMH) rechargeable battery
- Single-slot CRD 6100 with spare battery charging slot  
OR
- Communications and Charging Cable
- Power supply for cradle/CCC.

## Optional Accessories

Optional PDT 6100 accessories include:

- UBC 2000 battery charger with charging adapter
- RS-232 null modem cable
- Holster
- 4-slot CRD 6100 with spare battery charging slots.

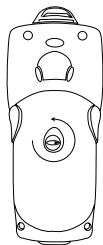
## Providing Power

Power for the PDT 6100 is provided by a 1500 mAh NiMH rechargeable battery pack or through the Charging and Communications Cable (CCC).

## Installing New or Recharged Batteries

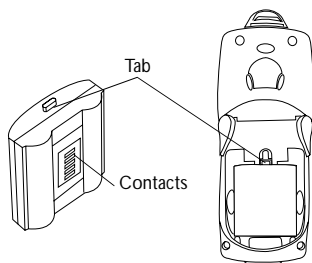
To install a new or recharged NiMH battery:

1. Turn the battery pack latch counterclockwise and remove the battery compartment door.
2. Lift the battery pack out.

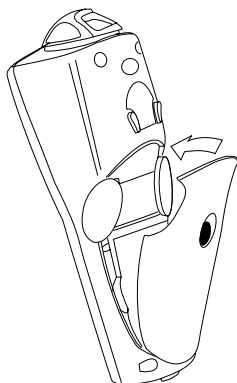


## Q u i c k R e f e r e n c e

3. Slide the new or recharged battery pack in the compartment, with the contacts facing inside the compartment and the tab facing the top of the compartment.



4. Replace the battery compartment door.
5. Turn the latch clockwise to secure the battery.



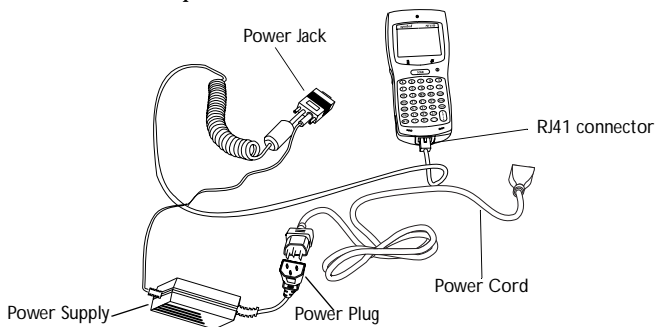
## Connecting the Charging and Communications Cable (CCC)

The optional charging and communications cable, connected to a power supply, provides power to the PDT 6100.

**Note:** Do NOT use the 3115 Charging and Communications Adapter with the PDT 6100!

To connect the PDT 6100 to the CCC:

1. Plug the CCC's 10-pin RJ41 connector in the 6100's base.
2. Plug the power supply's connector in the CCC's power jack.
3. Connect a power cord to the power cord's power plug.
4. Connect the power cord to a wall outlet.



## Charging the Battery In the Terminal

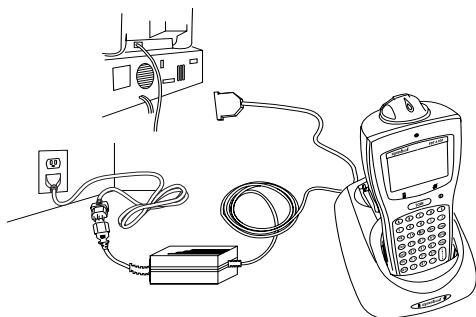
To charge the NiMH battery in the PDT 6100:

**Note:** Charge the battery at a temperature between 0°C to 40°C (32°F to 104°F). Room temperature (23°C or 73.4°F) is ideal.



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

1. Seat the PDT 6100 in a CRD 6100 connected to a power source.



2. The PDT 6100's Charging LED flashes when the terminal is first seated, lights solid yellow while the battery is charging, and lights solid green when the battery is charged.

The charging time required depends on capacity, and takes approximately 2.5 hours.

Spare batteries can be charged in the spare battery charging slot on the CRD 61XX. Refer to the *CRD 6100 Quick Reference Guide*.

For instructions on setting up the cradle, refer to the *CRD 6100 Quick Reference Guide* or to the *PDT 6100 Product Reference Guide*.

### **Using the Charging and Communications Cable (CCC)**

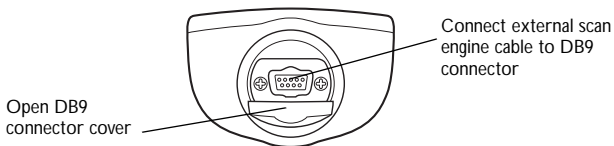
The optional CCC provides power through a power supply for recharging the NiMH battery while the 6100 is in use.

To charge the battery using the CCC, connect the 6100 and CCC as described in *Connecting the Charging and Communications Cable (CCC)* on page 6. Batteries recharge in approximately 2.5 hours.

## In a Universal Battery Charger (UBC)

For information on charging the NiMH battery in the UBC 2000, refer to the user documentation for the charger.

## Connecting an External Scan Engine Cable to the DB9 Connector



## Operating the PDT 6100

### Powering the PDT 6100 On/Off

Power the PDT 6100 on by:

- squeezing the scan trigger on either side of the 6100,
- or pressing the Scan Bar,
- or pressing the  $\odot$  key (**PWR**).

Note: The battery must be installed, or the 6100 must be in a cradle to power the terminal on.

To suspend PDT 6100's operation, press the  $\odot$  key (**PWR**).

### Adjusting the Display

To adjust the display contrast:

- Press **FUNC + X** to darken the display
- Press **FUNC + Z** to lighten the display.

### Turning Backlight On/Off

To turn the backlight on or off, press **FUNC + L** (LAMP).

## Using the Keyboard

Note: The PDT 6100 keyboard uses only upper case letters. Lower case letters are not available.

The PDT 6100 uses an alphanumeric keyboard that produces the 26-character alphabet (A-Z), numbers (0-9), and assorted characters. The keypad is color-coded to indicate which modifier key (**ALPHA**, **CTRL**, **FUNC**, and **SHIFT**) to press to produce a particular character or action.

- The default numeric keypad produces the numbers 0-9.
- Press **ALPHA** and the appropriate key to produce the alpha characters A-Z. **Note:** The characters A-N appear in the top three rows; O-Z appear on the numeric keypad.
- Press **FUNC** (blue) and the corresponding numeric key to produce the function keys F1-F10.
- Press the cursor keys (◀, ▶, ▲, ▼) to move the cursor up, down, left, and right on the screen.
- Press **BK SP** to erase information entered on the display, one character at a time.
- Press **SPACE** to enter a blank space.
- Press **CLEAR** to partially or completely escape from an application level or screen. **CLEAR** also erases all entered data from the screen.
- Press **ENTER** after entering data or a command.
- **CTRL** performs the control function and is under application control.
- Press **SHIFT** and a key to produce various character keys; refer to the PDT 6100 Product Reference Guide or your application guide for the keyboard mapping.

Note: Key function can be changed by an application. Your keyboard may not work exactly as described above.



## Terminal Hot Keys

---

**Caution:** Command Mode erases the MCL-Code interpreter, programs, and data (stored in flash or ROM). It starts the program loader utilities.

---


Cold Boot erases all programs and data stored in RAM. It restores all of the terminal's parameters to their default value (stored in NVM).

Warm Boot restarts the terminal in a safe mode. It does not erase the RAM DISK, programs, or data, but restarts the MCL-Code interpreter.

The following table lists the different keys which must be pressed to reset the PDT 6100 terminal:

	22 key	35 key	46 key
<b>Command Mode</b>	<SEND> <9> (PWR)(twice)	<BK SP> <SHIFT> (PWR)(twice)	<F> <I> (PWR)(twice)
<b>Cold Boot</b>	(UP ARROW) <4> <ENTER> (PWR)(twice)	<SPACE> <FUNC> (UP ARROW) (PWR)(twice)	<A> <B> <D> (PWR)(twice)
<b>Warm Boot</b>	(DN ARROW) (PERIOD) (PWR)(twice)	<F> <J> (PWR)(twice)	<4> <5> (PWR)(twice)

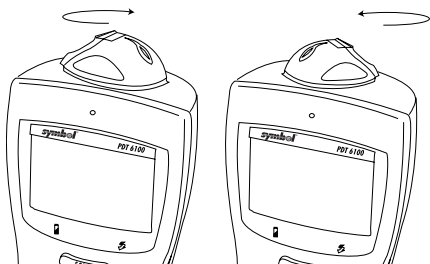
To reset the terminal:

1. Press and hold down the different keys corresponding to the type of boot you want.
2. Press the  key (**PWR**) twice and then release the other keys. The terminal restarts in the desired mode.

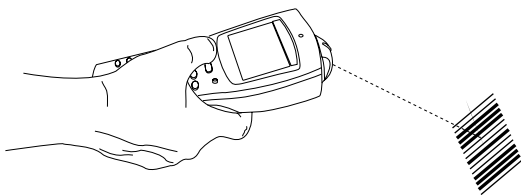
## Using the Integrated Laser Scanner

To scan:

1. Power on the system and the scanner by pressing the  $\odot$  key (**PWR**), the Scan Bar, or a trigger. The Scan LED lights red if scanning is enabled and the laser is on.
2. On the PDT 6100 with the SE 900 scan engine, turn the scanner to the direction you wish to scan. The scanner turns toward the back of the PDT 6100.



3. Point the PDT 6100 at the bar code and press the scan bar or a side trigger.



4. Ensure that the scan beam crosses all bars and spaces on the symbol, as shown below.



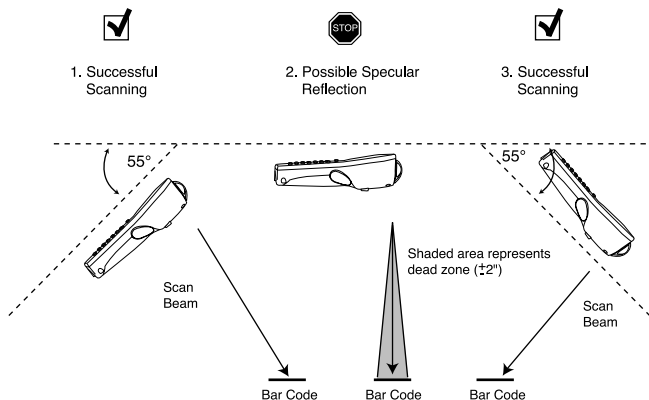
Hold the scanner farther away for larger symbols, and closer for symbols with bars that are close together.

- The LED turns from red to green for successful decodes. The PDT 6100 may also beep.

### Aiming: Hold at an Angle

Do not hold the 6100's scan window directly over the bar code. Laser light reflecting directly back into the scan window from the bar code is known as specular reflection. This strong light can "blind" the scanner and make decoding difficult. The area where specular reflection occurs is known as a "dead" zone.

You can tilt the PDT 6100 up to  $55^\circ$  forward or back and achieve a successful decode. Practice quickly shows what tolerances to work within.



## Running Communications

### Communicating with a Host PC

The 6100 communicates with a host PC or printer through the CRD 6100 or the charging and communications cable.

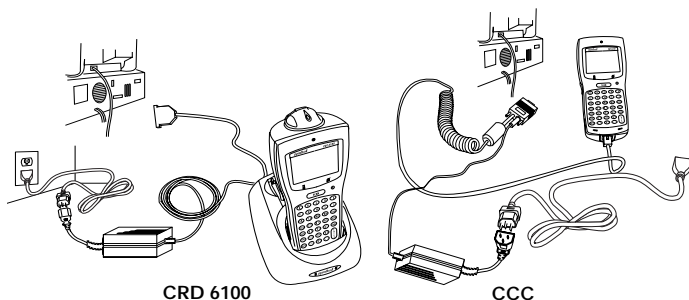
## Q u i c k R e f e r e n c e

To communicate with a host or printer using the CRD 6100:

1. Set up the cradle as described in the *PDT 6100 Product Reference Guide, p/n 70-33222-xx*, or *CRD 6100 Quick Reference Guide, p/n 70-37395-xx*.
2. Place the 6100's base in the cradle. Press the top of the 6100 against the cradle back until it is firmly seated.
3. Start the communications program on the host/printer and the 6100.

To communicate with a host PC or printer using the Communication and Charging Cable (CCC):

1. Plug the CCC's 10-pin RJ41 connector in the 6100's base.
2. Connect the DB-9 connector to the host's or printer's serial (COMM) port.
3. Start the communications program on the host PC/printer and 6100.



### Radio Communications


The PDT 6110 operates in a Symbol Spectrum One<sup>®</sup> RF network; the PDT 6140 operates in a Symbol Spectrum24<sup>®</sup> RF network.

The Status LED indicates the state of the 6100's connection to either of the RF networks:

- Off** indicates that the radio is working and associated with an access point (Spectrum24) or base station (Spectrum One).
- Flashes red once per second** to indicate that the radio is out of range or not associated with an access point or base station.

Refer to the network documentation for more information on operating the PDT 6100 in the specific RF environment.

## Troubleshooting

Problem	Cause	Solution
PDT 6100 does not power on.	NiMH battery not charged.	Charge the NiMH battery in the PDT 6100 or in the spare battery slot on the CRD 6100.
	NiMH battery not installed.	Insert charged NiMH battery in the 6100.
Rechargeable NiMH battery pack did not charge.	PDT 6100 removed from cradle while battery was charging.	Insert PDT 6100 in cradle and begin charging. The NiMH battery requires 2.5 hours to recharge fully.
	Battery failed.	Replace battery.
	Charging battery at temperature other than 0°C to 40°C.	Ensure that the room temperature is between 0°C and 40°C for charging the battery.
Cannot see characters on display.	PDT 6100 not powered on.	Press the  key ( <b>PWR</b> ).
	Contrast not adjusted properly.	Press <b>FUNC + X</b> to darken the display or <b>FUNC + Z</b> to lighten the display.



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

Problem	Cause	Solution
Scanner does not come on when Scan Bar or Trigger is pressed.	Scanner is not enabled.	See your System Administrator.
	Bar code is unreadable.	Verify that the bar code is not defective, i.e., smudged or broken.
	Scan window is dirty.	Clean scan window with a lens tissue. Tissues for eyeglasses work well. Do not use tissues coated with lotion.
	Code type not enabled.	See your system administrator.
<i>Double Key</i> message.	Two or more keys were pressed at the same time.	Press keys in sequence.
PDT 6100 does not respond when keys are pressed.	Application was not successfully downloaded.	Ask System Administrator to repeat application download.

P D T 6 1 0 0 S e r i e s

A large, light gray watermark logo consisting of the letters 'Q', 'R', and 'G' in a stylized, serif font, positioned behind the main text.

## 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 meeting with 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.

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.

### 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 Industry Canada Standard ICES-003.

Cet appareil numérique de la classe B est conform à la norme NMB-003 d'Industrie 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.
- IEC 1000-4-4:1995; Electromagnetic compatibility (EMC); Part 4: Testing and measurement techniques; Section 4: Testing electrical fast transient, /Burst immunity.
- IEC 1000-4-5:1995; Electromagnetic compatibility (EMC), Part 4: Testing and measurement techniques; Section 5: Surge Immunity
- IEC 1000-4-6:1996; Electromagnetic compatibility (EMC), Part 4: Testing and measurement techniques; Section 6: Immunity to conducted disturbances, induced by radio frequency fields.
- IEC 1000-4-11:1994; Electromagnetic compatibility (EMC), Part 4: Testing and measurement techniques; Section 11: Voltage Dips, Short Interruptions, and Voltage Variations.
- 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.

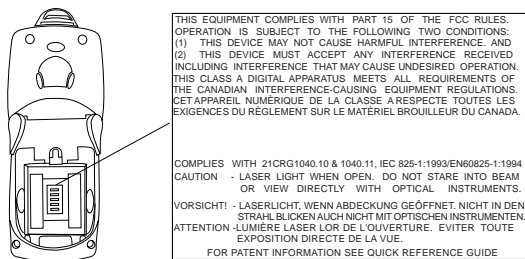
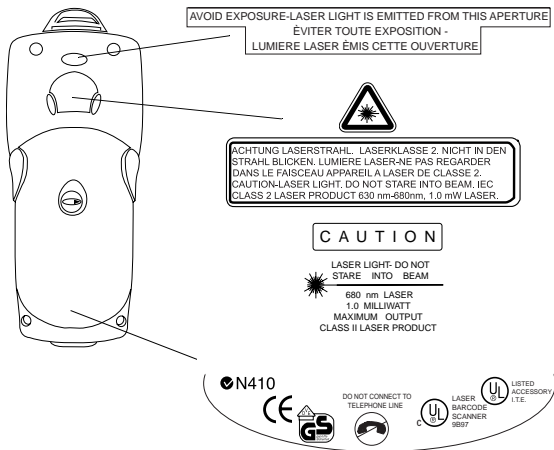
Class 1 Laser devices are not considered to be hazardous when used for their intended purpose. The following statement is required to comply with US and international regulations:

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

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.

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

## Terminal Labeling



## 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.

# P D T 6 1 0 0 S e r i e s

In accordance with Clause 5, IEC 0825 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**

KLASSE 1  
 KLASSE 2  
 KLASSE 1 LASERPRODUKT  
 LASERLYF  
 SE IKKE IND I STRÅLEN  
 KLASSE 2 LASERPRODUKT  
 AL LASER DI CLASSE 2

**DUTCH**

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

**FINNISH**

LUOKKA 1  
 LUOKKA 2  
 LUOKKA 1 LASERTUOTE  
 LASERVALO  
 ÄLÄ TUIJOTA SÄDETTÄ  
 LUOKKA 2 LASERTUOTE

**FRENCH**

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

**GERMAN**

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

**HEBREW**

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

**ITALIAN**

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

**NORWEGIAN**

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

**PORTUGUESE**

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

**SPANISH**

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

**SWEDISH**

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

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

## DECLARATION OF CONFORMITY

We, **Symbol Technologies, Inc.**  
of **One Symbol Plaza, Holtsville, NY 11742-1300, USA**

declare under our sole responsibility that the product

**Spectrum24, LA-2400, 1 Mbps Type II Radio Card**

**Spectrum24, LA302T, 2 Mbps Type II Radio Card, 5 mm shorter**

**Spectrum24HR, LA-411T, 11 Mbps Type II Radio Card, 5mm shorter**

**Spectrum24HR, LA-411S, 11Mbps Type II Radio Card, 5mm shorter and semi shielded**

**Spectrum24HR, LA-412T, 11Mbps Type II Radio Card, 5 mm shorter**

**Spectrum24HR, LA-412S, 11Mbps Type II Radio Card, 5mm shorter and semi shielded**

to which this declaration relates, is in conformity with the following standards and/or other normative documents.

**ETS 300 328 (November 1996) - Radio; Wideband 2.4 GHz Spread Spectrum**

**ETS 300 826 (November 1997) - EMC; 2.4 GHz wideband transmission systems**

**EN 60950: 1992 Incl Amdt 1-4, 11 - Safety of Information Technology Equipment**

We hereby declare that all essential radio test suites have been carried out and that the above named products is in conformity to all the essential requirements of Directive 1999/5/EC.

The conformity assessment procedure referred to in Article 10(5) and detailed in Annex IV of Directive 1999/5/EC has been followed with the involvement of the following Notified Body(ies):

**BABT, Claremont House, 34 Molesey Road, Walton-on-Thames, KT12 4RQ**

Identification mark: 0168 The equipment will also carry the Class  
2 equipment identifier



The technical documentation relevant to the above equipment can be made available for inspection on application to:

**Symbol Technologies EMEA, Symbol Place, Winnersh Triangle, Berkshire, RG 41 5TP, UK**

**Dornu Narnor**

(name)

Director, Regulatory and Technical Sales

(title)

(signature of authorised person)

July 2000

(date)





## 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.

Some states (or jurisdictions) do not allow the exclusion or limitation of incidental or consequential damages, so the proceeding exclusion or limitation may not apply to you.

## 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	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		

<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>.



70-33221-01  
Revision C — November 2001