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symbol[®]

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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. 4,593,186; 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 VRC 7900 Radio Terminal is a vehicle or fixed-mount radio data terminal with a direct radio link to a host computer. You can enter data by using the QWERTY keyboard, an optional bar code scanner, or a combination of the two. You can transmit data from the terminal immediately by the radio link to a host computer.

The main features of this terminal include:

- Ergonomic design with color LCD touch screen
- Quick release bracket for a quick exchange between vehicles
- Internal wide ranging power supply (11-60V dc) to accommodate propane, gasoline, and electric-powered forklifts
- Interfaces with scanners, printers, automation controls and other peripherals
- Continuous operation at -30°C (-22°F) (cold storage terminals)
- Full terminal emulation capabilities.

About This Guide

This guide provides instructions for the following:

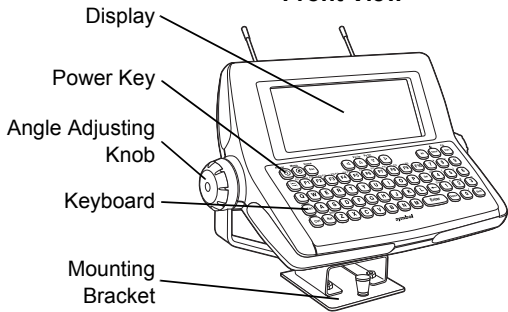
- *Parts of the VRC 7900 on page 2*
- *Required Accessories on page 3*
- *Optional Accessories on page 3*
- *Charging the Internal Battery on page 4*
- *Operating the Terminal on page 4*
- *Connecting a Scanner on page 7*
- *Maintaining the Terminal on page 7*
- *Troubleshooting on page 8.*

For more information including installation instructions, refer to the *VRC 7900 Radio Terminal Product Reference Guide*, p/n 72-50138-xx available at <http://www.symbol.com/manuals>.

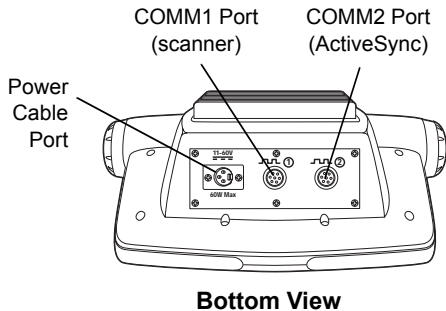
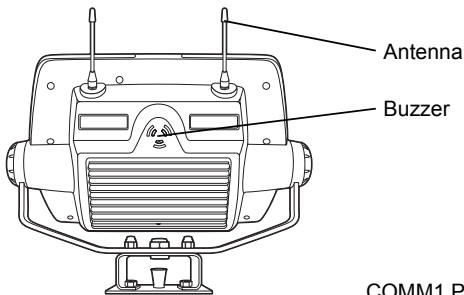
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Parts of the VRC 7900

Front View



Back View



Required Accessories

The VRC 7900 comes with an installation kit which includes:

- Quick release mounting plate
- All necessary connectors and cables.

Optional Accessories

You can order these optional accessories from Symbol:

- Scanner cable (scanner specific)
- RS-232 ActiveSync cable
- Spare antennas
- AC cable (use with AC universal power supply)
- AC universal power supply
- Filter box (use as a noise filter or with low voltage forklifts to power the terminal off when the ignition is off).

Note: Use only a Symbol-approved power supply, output rated 12V dc and minimum 9A (p/n 50-14001-004). The power supply is certified to EN60950 with SELV outputs.

Benutzen Sie nur eine Symbol Technologies genehmigt Stromversorgung in den Ausgabe: 12V dc und minimum 9A (p/n 50-14001-004). Die Stromversorgung ist bescheinigt nach EN60950 mit SELV Ausgaben.

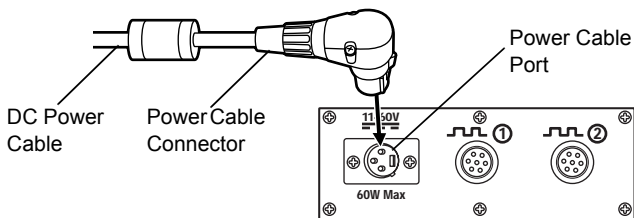
Charging the Internal Battery

When you receive your terminal, the internal battery is fully discharged. Leave the terminal powered on for 24 hours to fully charge the internal battery.

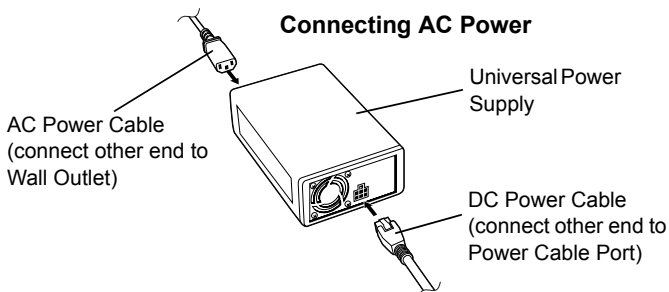
The internal battery maintains the RAM memory for 72 hours when fully charged. The data in the Flash memory or Flash file system is not affected by the state of charge.

Operating the Terminal

Connecting Power to the Terminal



Connecting AC Power



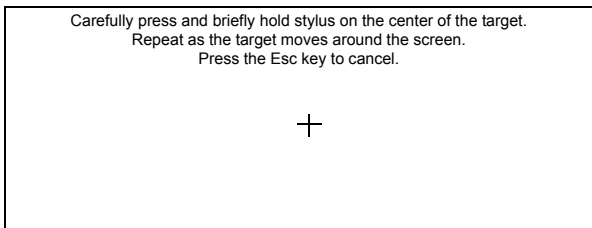
Powering the Terminal On/Off

Press the Power key to power on the terminal.

To suspend the terminal's operation, press and hold the Power key until the "Release for Suspend" message appears.

Calibrating the Touch Screen

The terminal prompts you to calibrate the touch screen when you first power on the terminal or after a cold boot.



1. As the screen instructs, carefully press and hold the stylus or your finger tip on the center of each target. Repeat as the target moves around the screen.
2. Press Enter to accept the settings when the calibration is complete.

Controlling the Screen Contrast

Press the Ctrl and Send keys to lighten the screen contrast. The contrast will cycle from light to dark.

Resetting the Terminal

If your terminal stops responding to inputs from buttons on the screen, you must warm boot or cold boot the terminal.

Performing a Warm Boot

A warm boot restarts the terminal and saves all stored records and entries.

Note: Files that remain open during a warm boot may not be retained.

To perform a warm boot, press and hold down the Power key for 6 seconds, then release.

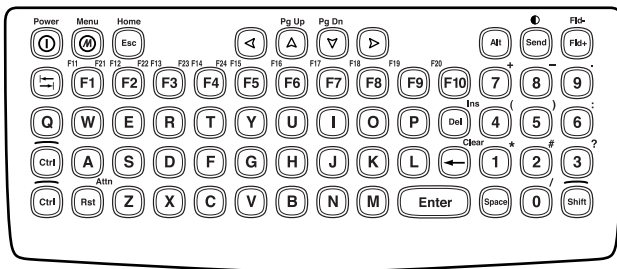
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Performing a Cold Boot

A cold boot restarts the terminal. In the Windows CE environment, the registry and objects stored are reset to original settings.


Press and hold the Power key for 15 seconds to perform a cold boot.

Using the Keyboard



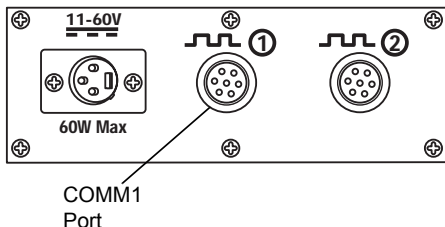
Key	Description
Power	Powers the terminal on and off, a short press for on and a long press for off.
Shift, Ctrl, Alt	Use in conjunction with other keys. Select alternate characters or functions by using the color code at the top of the keys. Use Ctrl - Send key combination to adjust the contrast. Use Ctrl - Esc key combination to access the start menu.
A through Z	Enters alpha and text characters.
0 through 9	Enters numeric characters.
◀ ▲ ▼ ▶	Moves the cursor around the screen or highlights the lines in a menu.
F1 through F24	Programmable function keys. The application determines the use, and the instructions are in the software or application documentation.

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

Key	Description
Enter	Moves the cursor to the next data field or screen.
Del	Deletes the character to the right of the cursor.
← or Backspace	Deletes the character to the left of the cursor.
Space	Enters a space between characters or words.
Send	When used with the Ctrl key, adjusts the contrast.
Menu or 	Displays the user menu.

Connecting a Scanner

Connect an optional scanner using the COMM1 port on the bottom of the terminal. Refer to the scanner *Quick Reference Guide* for more information.



Maintaining the Terminal

The terminal is factory-sealed and contains no user-serviceable parts. Only qualified Symbol Service Centers should service the terminal.

Clean the casing, keyboard, and display window by wiping with a soft cloth. Use a damp cloth if necessary.

Never use solvents or abrasive cleaners. You may damage the display or keyboard. Never use a pressure hose to clean the unit.

Troubleshooting

Problem	Cause	Solution
VRC 7900 does not power on or shuts off suddenly.	Power cable not connected or unplugged.	Connect power cable to power cable port on underside of terminal. Press the Power key to boot up the terminal.
	If the terminal is powered by a vehicle battery, the vehicle battery is depleted.	Replace or charge the vehicle battery.
Cannot see characters on display.	Terminal not powered on.	Press the Power key.
	Display not adjusted properly.	Select Display in the Control Panel settings and adjust the display.
Application does not respond.	Terminal cannot connect to the AP.	Bring the terminal closer to the AP. If problem continues, contact your System Administrator.
Optional scanner does not operate.	Scanner is not properly connected to the terminal.	Connect the scanner to the COMM1 port and power up the terminal. If the problem continues, refer to the scanner Quick Reference Guide or see your System Administrator.

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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.

FCC RF Exposure Guidelines



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 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.

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.

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

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.

Statement of Compliance

Symbol Technologies, Inc., hereby, declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. A Declaration of Conformity 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. |

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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.

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(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.

(F) Warranty Provisions The above warranty provisions shall not apply to any Product (i) which has been repaired, tampered with, altered or modified, except by Seller's authorized service personnel; (ii) in which the defects or damage to the Product result from normal wear and tear, misuse, negligence, improper storage, water or other liquids, battery leakage, use of parts or accessories not approved or supplied by Symbol, or failure to perform operator handling and scheduled maintenance instructions supplied by Seller; (iii) which has been subjected to unusual physical or electrical stress, abuse, or accident, or forces or exposure beyond normal use within the specified operational and environmental parameters set forth in the applicable Product specification; nor shall the above warranty provisions apply to any expendable or consumable items, such as batteries, supplied with the Product.

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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	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		

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